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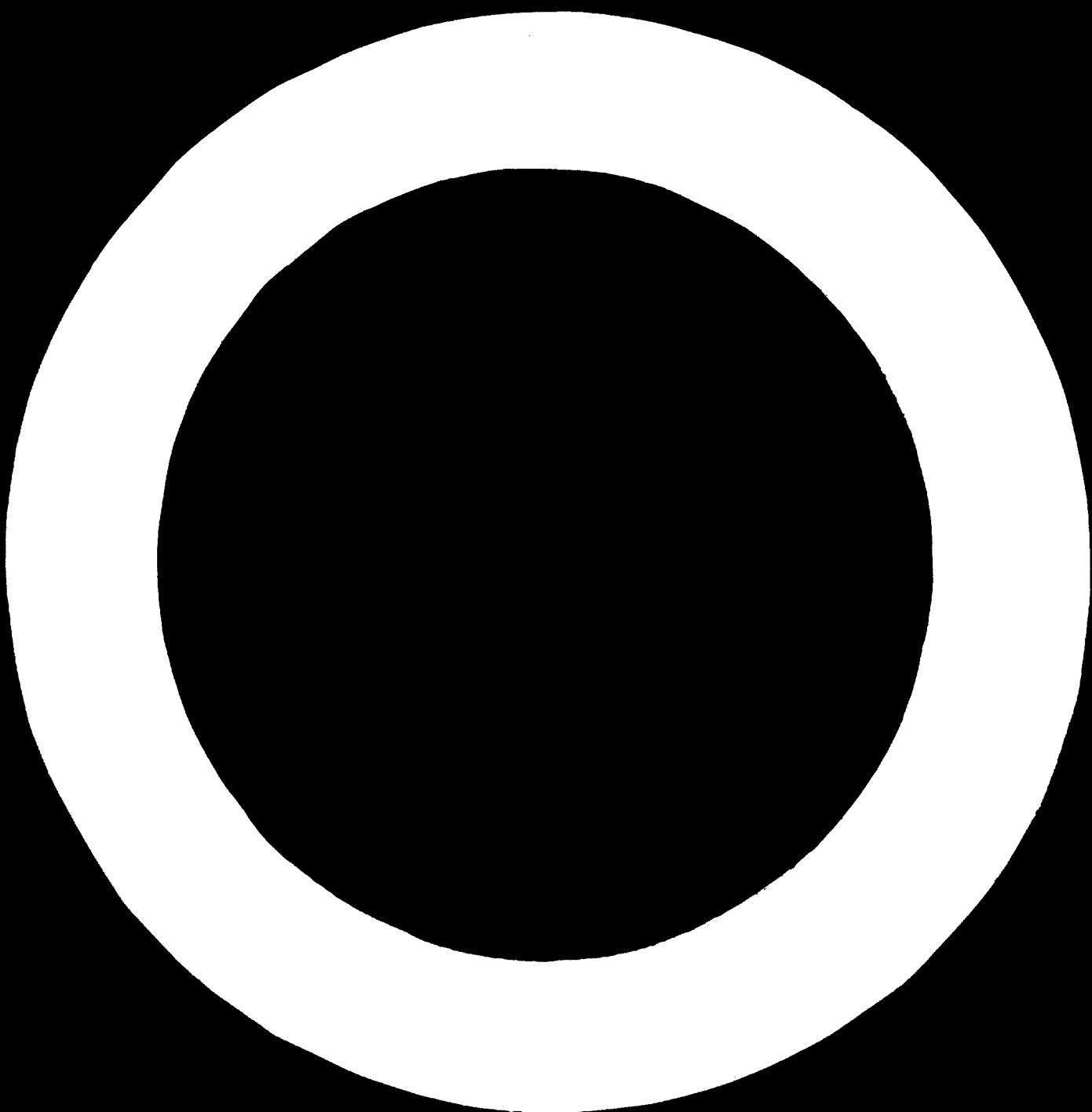
PROFILES OF
MANUFACTURERS
ESTABLISHED

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INTRODUCTION

This is the third volume of the *Profiles of Manufacturing Establishments* to be published by UNIDO. It contains data from several countries other than those covered in Volumes I and II. From the developing country group, East Africa, El Salvador, Iran and Mexico have offered 83 enterprise profiles for this volume. Countries in Western Europe, particularly the regions referred to as "Middle" and "South" Europe, contributed an additional 78 profiles.

The format used for the profiles from East Africa, El Salvador, Mexico and South Europe consists of two pages and is quite similar, though not identical, to that of profiles from France, India, Israel and Japan contained in the earlier volumes. An expanded format, of four pages, is employed for the remaining profiles in this volume.

The new two-page format

The new two-page format in this volume involves some modifications of the earlier one, notably these:

- (a) All data in value terms are shown in US dollar equivalents, instead of in domestic currency units.
- (b) The table on *educational background* of workers, previously cross-classified in three loosely defined skill categories, has been replaced by information regarding *monthly earning rates* of workers, classified by several job categories such as non-operative supervisors (managers), engineers, technicians, accountants, sales officers, clerks and typists, operative supervisors, foremen, machine operators, craftsmen, truck drivers etc. (This is shown on page two and not on page one as in the previous format.)
- (c) Section II, *Inventories*, now includes information on "desired working capital" where available.
- (d) A new section, VIII. *Characteristics of the industry in the country*, has been added to indicate summary data from the latest industrial census in the country, referring to the number

of establishments, the number of persons employed, average wages and salaries *per annum*, the annual gross value of production per person employed, and the ratio of physical capital assets to annual gross value of production, by size groups of establishments.

- (e) VII. *Expansion: History and plan* in the earlier format has been replaced partly by *History of investment*, which appears as a footnote to I. *Fixed capital assets*, and partly by *Future plan* which is shown in IX. *Supplement* when applicable.
- (f) In the new format, information on working hours of operative workers is shown.
- (g) *Selected coefficients*, which were shown on the second page of the earlier format, are now omitted, since these can be easily calculated from the data given in each profile and do not add to primary information.

The four-page format

This enlarged form is used in Volume III for all the cases from Middle Europe and for Iran. The new four-page format is basically comparable to the new two-page form described above. The main changes are as follows:

- (a) Larger space is allowed for descriptive data concerning products, markets, exports, production capacity and other supplementary information; and
- (b) Section XI. *Desired areas for co-operation with developing countries* on page 4, is to indicate the scope of technical co-operation that the particular enterprise would be prepared to offer to developing countries.

Some changes in layout

Apart from the additions and changes referred to above, some changes have occurred in the layout. The correspondence between the major section of the two-page form and the four-page form is as follows:

Two-page form

- I. **FIXED CAPITAL ASSETS**
with:
 - External conditions
 - Detail of process equipment
- History of investment (footnote)
- II. **INVENTORIES AND WORKING CAPITAL**
(with desired working capital)

Four-page form

- I. **FIXED CAPITAL ASSETS**
with:
 - External conditions
- Part of VIII. **TECHNOLOGICAL CHARACTERISTICS**
- IX. **HISTORY AND PLAN**
- III. **INVENTORIES**
(without information on desired working capital)

III. MANNING TABLE

with:

- Working time per operative worker
- Capacity of operative shops

IV. ANNUAL PRODUCTION

Capacity utilization (footnote)

V. ANNUAL CONSUMPTION

VI. VALUE ADDED

VII. MONTHLY EARNING RATES

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

Despite changes in the form of presentation, the definition of the basic economic concepts remains unchanged throughout the three volumes.¹

Latest development with the Profiles programme

Since the publication of Volume I of the *Profiles* in an early part of 1968, this series has found extensive use as a multi-purpose desk reference among technical staff engaging in industry survey and planning in the developing countries. Most typical uses appear to be: (a) in sizing up or checking on information on particular investment opportunities envisaged for project development and promotion; (b) as an aid for evaluating consultant studies and suppliers' offers for industrial investment projects; and (c) as a comparative reference for analysing the efficiency of existing industrial establishments.

However, it should be noted that the goal of such reference data is not to create "instant experts", but rather to provide a certain additional element to the broad battery of skills and information needed by analysts working on industrial policies, programmes and promotion.

There is also an indication that this publication has stimulated an attempt in a number of developing countries to look more closely into the performances and capacities of existing industries for planning

¹ See "Technical notes" in *Profiles of Manufacturing Establishments*, Vol. I (ID/SER.E.4; Sales No. E.67.II.B.17), pp. 5 - 14. The French, Spanish and Russian translations of the "Technical notes" have been published separately in a supplement to Volume I.

IV. MANNING TABLE

with:

- Working time per operative worker

Part of VIII. TECHNOLOGICAL CHARACTERISTICS

V. ANNUAL PRODUCTION

with:

- Description of major products

- Market aspects

- Exports

Part of VIII. TECHNOLOGICAL CHARACTERISTICS

VII. ANNUAL CONSUMPTION

VI. VALUE ADDED

II. MONTHLY GROSS WAGES AND SALARIES

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

purposes. UNIDO has already received a number of requests from developing countries for technical advice and training in gathering data on the establishment level for their own purposes connected with industrial survey, project planning, diagnosis of national policies, regional integration plans, management clinics etc.

In carrying out these technical assistance projects, efforts are being made to "deepen" the scope of the profiles to meet the specific objectives of data gathering envisaged in each case. At the same time, attention is being paid to the deepening of techniques of inter-firm comparison to suit the given objectives. The field-bound activities emerging along the lines of the *Profiles* are thus increasingly characterized by a multi-disciplinary approach to the diagnosis of industrial activities on the establishment level: i.e. provision of a joint working basis for technologists, engineers, accountants, statisticians and planning economists.

These field-bound *Profiles*' operations, although each serves primarily its own specific local purposes, will be able to generate an important by-product. That is, with proper devices for neutralizing them, the results of local case studies may be pooled in summary forms for general dissemination, wherever feasible. It is likely, therefore, that the future issues of this series will involve various types of profiles in various forms, depending on sources. However, every effort will be made to ensure continuity of this series in terms of its basic objectives: provision of reference micro-data for industrial programming.

INTRODUCTION

Cette publication est le troisième volume des *Profils d'établissements industriels* dont l'ONUDI assure la publication. Les données qu'elle contient émanent de plusieurs pays qui ne sont pas couverts dans les volumes I et II. Parmi le groupe des pays en voie de développement, l'Afrique de l'Est, El Salvador, l'Iran et le Mexique ont fourni pour ce volume 83 profils d'entreprises. Les pays d'Europe occidentale, en particulier ceux qui appartiennent aux régions dites d'«Europe centrale» et d'«Europe méridionale», ont fourni 78 profils supplémentaires.

Les profils de l'Afrique de l'Est, d'El Salvador, du Mexique, et d'Europe méridionale ont été présentés sur deux pages, présentation qui ne diffère que légèrement des profils émanant de la France, de l'Inde, d'Israël et du Japon qui figurent dans les volumes précédents. Les autres profils contenus dans ce volume sont présentés sur quatre pages.

La nouvelle présentation en deux pages

La nouvelle présentation en deux pages adoptée dans le présent volume diffère sur certains points de la précédente, et en particulier sur les points suivants:

- a) Toutes les données exprimées en valeur sont indiquées en leurs équivalents en dollars des Etats-Unis, et non en monnaie nationale;
- b) Le tableau consacré à la *formation scolaire* des travailleurs, précédemment subdivisé en trois qualifications professionnelles mal définies, a été remplacé par des renseignements sur le *taux de rémunération mensuelle* des travailleurs, d'après plusieurs catégories de postes, tels que: cadres non exécutants (gestion), ingénieurs, agents techniques, comptables, agents du service des ventes, employés et dactylos, cadres d'exécution, contremaîtres, conducteurs de machine, ouvriers, chauffeurs de camions, etc. (Contrairement à la présentation précédente, ces renseignements figurent à la page 2 et non à la page 1.)
- c) La section II, «*Stocks*», contient désormais tous les renseignements disponibles sur le «Fonds de roulement souhaité».
- d) Une nouvelle section «VIII. *Caractéristiques de l'industrie dans le pays*» a été ajoutée pour indiquer, sous une forme ramassée, les données

Disposition sur deux pages

I. IMMOBILISATIONS

avec:

Conditions extérieures

Détails sur l'équipement de production

II. RÉCAPITULATION DES INVESTISSEMENTS (NOTE)

STOCKS ET FONDS DE ROULEMENT
(avec fonds de roulement souhaité)

tirées du dernier recensement industriel du pays considéré, en ce qui concerne le nombre d'établissements, le nombre de personnes employées, les salaires et traitements moyens *annuels*, la valeur annuelle brute de la production par personne employée et le rapport des immobilisations à la valeur annuelle brute de la production; ces renseignements sont fournis par groupes d'établissements classés selon la taille.

- e) La section «VII. Expansion passée et future» a été remplacée en partie par «Récapitulation des investissements», renseignement figurant en note à la section «I. Immobilisations», et en partie par la rubrique «Plan d'avenir» figurant, le cas échéant, à la section «IX. Renseignements supplémentaires».
- f) La nouvelle présentation fournit des renseignements sur les heures de travail du personnel d'exécution.
- g) La rubrique «Coefficients choisis», qui figurait à la seconde page de la présentation précédente, a été supprimée. On peut en effet les calculer aisément à partir des données de chaque profil et ils n'ajoutent rien aux renseignements de base.

La présentation sur quatre pages

Cette présentation plus poussée est utilisée dans le volume III pour tous les profils émanant de l'Europe centrale et de l'Iran. Elle est pour l'essentiel comparable à l'autre sous réserve des deux modifications suivantes:

- a) Un plus grand espace est réservé à la description des produits, des marchés, des exportations, de la capacité de production et de divers autres renseignements complémentaires;
- b) A la page 4, la section «XI. Domaines de coopération souhaités avec les pays en voie de développement» est destinée à indiquer l'étendue de la coopération technique que l'entreprise considérée serait disposée à accorder à des pays en voie de développement.

Modifications apportées à la disposition

Ces additions et modifications mises à part, quelques changements ont été apportés dans la disposition. La correspondance entre les principales sections des deux présentations est la suivante:

Disposition sur quatre pages

I. IMMOBILISATIONS

avec:

Conditions extérieures

Partie de VIII. CARACTÉRISTIQUES TECHNIQUES

IX. EXPANSION PASSEE ET FUTURE

XII. STOCKS

(sans indication de fonds de roulement souhaité)

III. PERSONNEL

avec :

- Heures de travail par travailleur employé directement à la production
- Capacité de production des ateliers

IV. PRODUCTION ANNUELLE

Utilisation de la capacité de production (note)

V. CONSOMMATION ANNUELLE

VI. VALEUR AJOUTEE

VII. TAUX DE REMUNERATION MENSUELLE

VIII. CARACTERISTIQUES DE L'INDUSTRIE DANS LE PAYS

Les modifications apportées à la disposition générale ne changent rien aux définitions des principales notions économiques qui restent les mêmes dans les trois volumes¹.

Nouvelle orientation du programme des Profils

Depuis la publication du volume I, au début de 1968, cette série a largement servi d'ouvrage de référence au personnel technique des pays en voie de développement s'occupant des multiples aspects de l'industrie et de la planification. Les utilisations les plus caractéristiques semblent être les suivantes: a) l'appréciation ou le contrôle de renseignements sur telle ou telle possibilité d'investissement envisagée pour le développement ou la promotion de projets; b) l'évaluation des études effectuées par des consultants et des offres émanant de fournisseurs pour des projets d'investissement industriel; c) l'analyse de l'efficacité de divers établissements industriels en utilisant les profils comme moyen de comparaison.

Il convient toutefois de souligner que le but de cet ouvrage de référence n'est nullement de «fabriquer» instantanément des «experts», mais d'apporter un élément d'appoint au large éventail de qualifications et de renseignements indispensables à tout analyste s'occupant de questions de politique, de programmes et de promotion industriels.

Cette série de publications a été à l'origine, dans plusieurs pays en voie de développement, d'analyses plus poussées des résultats et de la capacité de production des industries existantes aux fins de planification. L'ONUDI a déjà reçu de pays en voie de développement un certain nombre de demandes de

¹ Voir «Note technique» du volume I des *Profils d'établissements industriels* (ID/SER.I/4, numéro de vente: E.67.II.B.17), pages 5 à 14. Les traductions française, espagnole et russe de cette note technique ont été publiées séparément, sous forme de supplément au volume I.

IV. PERSONNEL

avec :

- Heures de travail par travailleur employé directement à la production

Partie de VIII. CARACTERISTIQUES TECHNIQUES

V. PRODUCTION ANNUELLE

avec :

- Description des principaux produits
- Caractéristiques du marché
- Exportations

Partie de VIII. CARACTERISTIQUES TECHNIQUES

VII. CONSOMMATION ANNUELLE

VI. VALEUR AJOUTEE

II. SALAIRES ET TRAITEMENTS MENSUELS BRUTS

X. CARACTERISTIQUES DE L'INDUSTRIE DANS LE PAYS

conseils techniques et de directives sur la manière de rassembler les données sur les établissements industriels, afin de leur permettre de résoudre les problèmes que posent les enquêtes industrielles, la planification des projets, les diagnostics sur la politique nationale, les plans d'intégration régionale, les stages pour le personnel de direction, etc.

Pour mener à bien ces projets d'assistance technique, on s'efforce d'«approfondir» la matière des profils, de façon à atteindre les objectifs assignés dans chaque cas au rassemblement des données. Simultanément, on s'attache à approfondir les techniques de comparaison interentreprises pour les adapter aux divers objectifs. De ce fait, l'examen attentif des profils suffit à montrer que les activités sur le plan local qui s'inspirent des profils se caractérisent de plus en plus par une manière pluridisciplinaire d'établir le diagnostic de l'activité au niveau de l'établissement, c'est-à-dire qu'elles fournissent un cadre de référence commun aux techniciens, aux ingénieurs, aux comptables, aux statisticiens et aux planificateurs de l'économie.

Ces travaux qui se font sur place pour établir les *Profils*, tout en étant essentiellement conçus en fonction de leurs objectifs spécifiques, peuvent donner naissance à des sous-produits très intéressants. Pour peu qu'on sache ôter ce qu'il y a en eux de spécifique, on peut extraire des cas d'espèce des éléments communs, les grouper et assurer à cette synthèse une diffusion aussi large que possible. C'est pourquoi il est envisagé de faire figurer dans les prochaines éditions de la série divers types de profils, dont la disposition pourra varier selon l'origine de la documentation. Quoi qu'il en soit, tout sera fait pour assurer la permanence des objectifs essentiels de cette série: fournir des microdonnées de référence aux fins de programmation industrielle.

ВВЕДЕНИЕ

Настоящий текст является третьим томом издания „Профили предприятий обрабатывающей промышленности”, которое публикует ЮНИДО. В нем содержатся сведения, которые были получены от некоторых стран, ранее не упоминавшихся в томах I и II. От группы развивающихся стран Восточная Африка, Сальвадор, Иран и Мексика предоставили для этого тома материалы о 83-х профилях предприятий. Страны Западной Европы, в частности районов, имеющих „Центральная“ и „Южная“ Европа, предоставили материалы еще о 78 профилях.

Материал о профилях предприятий Восточной Африки, Сальвадора, Мексики и Южной Европы изложен на двух страницах. Этот формат сходен, но не точно совпадает с форматом профилей предприятий Франции, Индии, Израиля и Японии, содержащихся в предыдущих томах. Для остальных профилей, содержащихся в этом томе, используется расширенный формат, состоящий из четырех страниц.

Новый двухстраничный формат

В связи с использованием в этом томе нового двухстраничного формата пришлось внести ряд изменений по сравнению с форматом предыдущего тома, а именно:

- a) Все данные в стоимостном выражении приводятся в долларах США, а не в местной валюте.
- б) Таблица об образовании работников предприятия, ранее распределявшихся по трем, не очень четко разграниченным категориям специальностей, заменена сведениями о размерах месячного заработка работников, распределенных по нескольким категориям выполняемых работ, таких, как руководители административных служб (управляющие), инженеры, техники, бухгалтера, агенты по сбыту, секретари и машинистки, руководители эксплуатационных служб, мастера, механики, рабочие, шоферы и т.д. (эти данные показаны на второй странице, а не на первой странице, как в предыдущем формате).
- в) Раздел II: „Наличные материально-производственные запасы“, сейчас включает информацию о „желаемом оборотном капитале“, где эти сведения можно было получить.
- г) Добавлен новый раздел VIII: „Характеристика национальной промышленности“, в котором приводятся сводные данные на основании последней промышленной переписи в стране: количество

предприятий, количество работников, средняя годовая зарплата рабочих и служащих, годовая валовая стоимость продукции на каждого работника и отношение физических капитальных активов к головной валовой стоимости продукции — по размерам предприятий.

- d) Раздел VII: „Ход развития: история и план“ в предыдущем формате частично заменен разделом „История инвестирования“, который фигурирует в виде примечания к разделу I: „Основные капитальные средства“, а частично заменен разделом „Планы на будущее“, который приводится в разделе IX: „Дополнение“, где это оказалось возможным.
- e) В новом формате приводится информация о рабочем времени работников эксплуатационных служб.
- ж) „Репрезентативные коэффициенты“, которые приводились на второй странице предыдущего формата, больше не публикуются, поскольку их можно легко вычислить на основе данных, указанных в каждом профиле, и они не прибавляют ничего нового к основным сведениям.

Четырехстраничный формат

Эта расширенная форма используется в томе III для описания всех профилей в странах Центральной Европы и в Иране. Новый четырехстраничный формат в основном сравним с вышеописанным новым двухстраничным форматом. Основные изменения заключаются в следующем:

- а) Больше места отводится для описательной части данных о продуктах, рынках, экспортре, производственной мощности и другой дополнительной информации;
- б) раздел XI: „Желаемые области сотрудничества с развивающимися странами“ на стр. 4 преследует цель дать указания о характере технического сотрудничества, которое данное предприятие было бы готово предложить развивающимся странам.

Некоторые изменения в расположении материала

Помимо вышеупомянутых добавлений и изменений, были внесены некоторые изменения в расположение материала. Соответствие между основными разделами двухстраничного формата и четырехстраничного формата видно из приводимого ниже сопоставления:

Двухстраничный формат

- I. ОСНОВНЫЕ КАПИТАЛЬНЫЕ СРЕДСТВА**
включая:
Внешние условия
Подробные данные о технологическом оборудовании
История инвестирования (примечание)
- II. НАЛИЧНЫЕ МАТЕРИАЛЬНО-ПРОИЗВОДСТВЕННЫЕ ЗАПАСЫ И ОБОРОТНЫЙ КАПИТАЛ**
включая: желаемый оборотный капитал
- III. ШТАТНОЕ РАСПИСАНИЕ**
включая:
Рабочее время на каждого работника эксплуатационной службы
Мощность рабочих цехов
- IV. ГОДОВОЕ ПРОИЗВОДСТВО**
- Использование производственной мощности (примечание)
- V. ГОДОВОЕ ПОТРЕБЛЕНИЕ**
- VI. ПРИБАВОЧНАЯ СТОИМОСТЬ**
- VII. СТАВКИ МЕСЯЧНОЙ ЗАРПЛАТЫ**
- VIII. ХАРАКТЕРИСТИКИ НАЦИОНАЛЬНОЙ ПРОМЫШЛЕННОСТИ**

Несмотря на изменения в форме изложения материала, определения основных экономических понятий во всех трех томах остаются без изменений¹⁾.

Новейшие данные о программе издания „Профилей“

С тех пор как в начале 1968 г. был опубликован том I „Профилей“, специалисты, занимающиеся вопросами исследований и планирования промышленного производства в развивающихся странах, широко используют это издание в качестве многоцелевого настольного справочника. По-видимому, наиболее часто этот справочник используется для следующих целей: а) для проверки информации и определения размера конкретных инвестиционных возможностей,

¹⁾ См. „Технические примечания“ в „Профильях предприятий обрабатывающей промышленности“, том I (ID/SER. E/4; в продаже под №. E. 67. II. В. 17), стр. 5–14 английского текста). Переводы „Технических примечаний“ на французский, испанский и русский языки опубликованы отдельно в дополнении к тому I.

Четырехстраничный формат

- I. ОСНОВНЫЕ КАПИТАЛЬНЫЕ СРЕДСТВА**
включая:
Внешние условия
- Часть VIII. ТЕХНОЛОГИЧЕСКИЕ ХАРАКТЕРИСТИКИ**
- IX. ИСТОРИЯ И ПЛАН**
- III. НАЛИЧНЫЕ МАТЕРИАЛЬНО-ПРОИЗВОДСТВЕННЫЕ ЗАПАСЫ**
(без данных о желаемом оборотном капитале)
- IV. ШТАТНОЕ РАСПИСАНИЕ**
включая:
Рабочее время на каждого работника эксплуатационной службы
- Часть VIII. ТЕХНОЛОГИЧЕСКИЕ ХАРАКТЕРИСТИКИ**
- V. ГОДОВОЕ ПРОИЗВОДСТВО**
включая:
Описание основных продуктов
Рыночные аспекты
Экспорт
- Часть VIII. ТЕХНОЛОГИЧЕСКИЕ ХАРАКТЕРИСТИКИ**
- VII. ГОДОВОЕ ПОТРЕБЛЕНИЕ**
- VI. ПРИБАВОЧНАЯ СТОИМОСТЬ**
- II. МЕСЯЧНАЯ ВАЛОВАЯ ЗАРПЛАТА РАБОЧИХ И СЛУЖАЩИХ**
- X. ХАРАКТЕРИСТИКИ НАЦИОНАЛЬНОЙ ПРОМЫШЛЕННОСТИ**

предусмотренных в связи с разработкой и осуществлением промышленных проектов; б) в качестве пособия для оценки проводимых консультантами исследований и предложений поставщиков в связи с проектами инвестиций в области промышленности; и в) в качестве сравнительного справочника для анализа эффективности действующих промышленных предприятий.

Однако следует подчеркнуть, что эти справочные данные не преследуют цели создавать „экспертов мгновенной выучки“, а скорее служить некоторым дополнением к тому арсеналу знаний и информации, которые требуются аналитикам, занимающимся разработкой промышленной политики, программ и соединением промышленному развитию.

Имеются также некоторые указания на то, что эта публикация побудила ряд развивающихся стран более внимательно анализировать работу и производительность существующих промышленных предприятий в целях планирования. ЮНИДО уже получила от развивающихся стран ряд заявок на предоставление технических консультаций и подготовку кадров в обла-

сти сбора данных на уровне предприятий для их собственных целей, связанных с промышленными обследованиями, планированием проектов, прогнозированием национальной политики, планами региональной интеграции, совещаниями специалистов по неотложным вопросам управления и т. д.

При осуществлении этих проектов технической помощи прилагаются усилия для дальнейшего „углубления“ содержания „Профилей“ в целях выполнения конкретных задач по сбору данных, которые предусматриваются в каждом отдельном случае. Одновременно уделяется внимание углублению методов сравнения между различными фирмами в целях выполнения данных задач. Деятельность на местах в том виде, как она вырисовывается в „Профайлах“, таким образом, все больше характеризуется многосторонним подходом к анализу промышленной деятельности на уровне предприятия, т. е. созданием общей рабочей основы

для технологов, инженеров, бухгалтеров, статистиков и экономистов-плановиков.

Эти операции, которые проводятся на местах на основе „Профилей“, и каждая из которых служит главным образом своим собственным конкретным местным целям, смогут привести к другим важным последствиям: результаты изучения показательных местных случаев после переработки их в анонимную форму можно будет обобщить и опубликовать в кратком виде для общего распространения, когда это возможно. Поэтому представляется возможным, что будущие выпуски этой серии будут содержать разные типы „Профилей“ в различных формах в зависимости от источника информации. Однако будут принятые все меры к тому, чтобы сохранить неотступное преследование основной цели „Профилей“ — предоставление справочных микроданных для программирования в области промышленности.

INTRODUCCION

Este es el tercer volumen de los *Perfiles de Establecimientos Manufactureros* que publica la ONUDI. Contiene datos de varios países, distintos de los que figuran en los volúmenes I y II. Del grupo de países en desarrollo, África oriental, El Salvador, Irán y México han enviado 83 perfiles de empresas para este volumen. Los países de Europa occidental, y en particular las regiones denominadas Europa central y Europa meridional, han enviado otros 78 perfiles.

El formato utilizado para los perfiles de África oriental, El Salvador, México y Europa meridional consta de dos páginas y es muy semejante, aunque no idéntico, al de los perfiles de Francia, India, Israel y Japón contenidos en los volúmenes anteriores. Para los restantes perfiles de este volumen se utiliza un formato mayor, de cuatro páginas.

El nuevo formato de dos páginas

El nuevo formato de dos páginas utilizado en este volumen contiene algunas modificaciones respecto al anterior. Las principales son las siguientes:

- a) Todas las sumas de dinero se expresan en su equivalencia en dólares, en lugar de hacerlo en la moneda de país.
- b) El cuadro relativo a la *formación escolar* de los trabajadores, que anteriormente se clasificaba en tres categorías no muy bien definidas de calificaciones profesionales, ha sido sustituido por información sobre los índices de ingresos mensuales de los trabajadores, clasificados por varias categorías de trabajos, como supervisores no operarios (directores), ingenieros, técnicos, contables, agentes de ventas, oficinistas y mecanógrafos, supervisores operarios, capataces, operadores de máquinas, artesanos, conductores de camiones, etc. (Esto figura en la *segunda página* y no en la *primera* como en el formato anterior.)
- c) La sección II, «*Existencias*», incluye ahora información sobre «capital de operaciones deseado», cuando se dispone de datos.
- d) Se ha añadido una nueva sección «VIII. *Características de la industria en el país*» para presentar datos resumidos del último censo industrial del país, relativos al número de

establecimientos, el número de personas empleadas, los sueldos y salarios medios por año, el valor bruto anual de la producción por persona empleada y la relación entre el capital fijo y el valor bruto anual de la producción, por grupos de establecimientos según su tamaño.

- e) Lo que era la sección VII, «*Expansión pasada y futura*», en el formato anterior ha sido sustituida, en parte, por «*Inversiones pasadas*», que figuran como nota de pie de página en la sección I «*Capital fijo*» y, en parte, por «*Plan futuro*» que figura en la sección IX «*Informaciones suplementarias*», cuando procede.
- f) En el nuevo formato, se da información sobre horas de trabajo de los trabajadores operarios.
- g) Los «*Coefficientes seleccionados*», que figuran en la segunda página del formato anterior, se omiten ahora, ya que pueden calcularse fácilmente a partir de los datos dados en cada perfil y no añaden nada a la información primaria.

El formato de cuatro páginas

Este formato ampliado se utiliza en el volumen III para todos los casos de Europa central y para Irán. El nuevo formato de cuatro páginas es básicamente análogo al nuevo formato de dos páginas descrito anteriormente. Los principales cambios son los siguientes:

- a) Se dedica más espacio a los datos descriptivos sobre productos, mercados, exportaciones, capacidad de producción y otras informaciones suplementarias; y
- b) La sección XI, «*Esferas en que es deseable la cooperación con los países en desarrollo*», que figura en la página 4, tiene por objeto indicar el alcance de la cooperación técnica que las empresas particulares están dispuestas a ofrecer a los países en desarrollo.

Algunos cambios de presentación

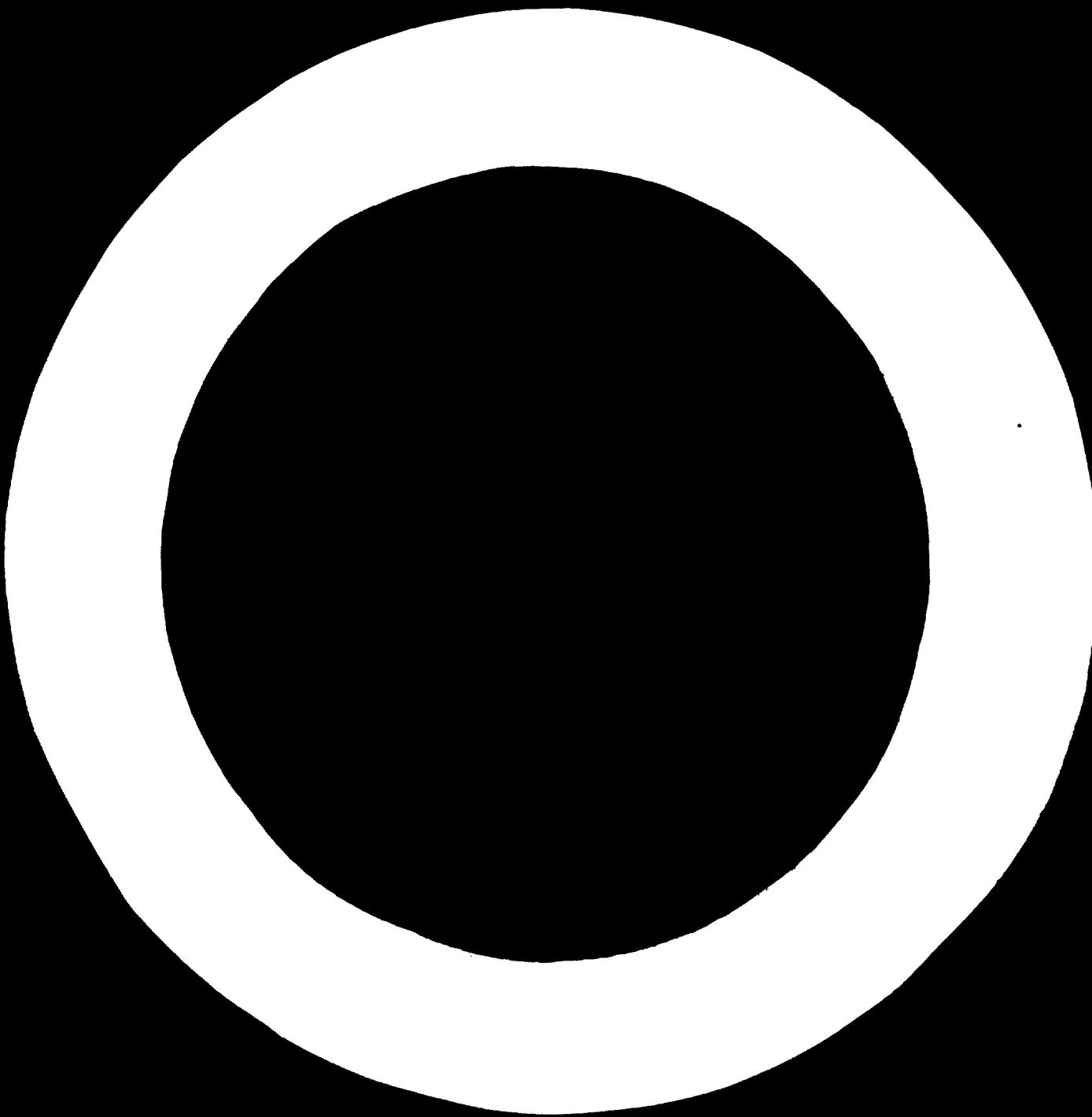
Además de las adiciones y los cambios mencionados anteriormente, se han introducido algunos cambios en la presentación. La correspondencia entre las secciones más importantes del formato de dos páginas y las del formato de cuatro páginas es como sigue:

Formato de dos páginas

- I. CAPITAL FIJO
con:
Condiciones externas
Equipo de fabricación detallado
- Inversiones pasadas (nota de pie de página)

Formato de cuatro páginas

- I. CAPITAL FIJO
con:
Condiciones externas
- Parte de VIII. CARACTERISTICAS TECNOLOGICAS
- IX. PASADO Y FUTURO



II. EXISTENCIAS Y CAPITAL DE OPERACIONES (con capital de operaciones deseado)	III. EXISTENCIAS (sin información sobre capital de operaciones deseado)
III. PLANTILLA con: Tiempo de trabajo por operario Capacidad de los talleres	IV. PLANTILLA con: Tiempo de trabajo por operario
IV. PRODUCCION ANUAL	Parte de VIII. CARACTERISTICAS TECNOLOGICAS
	V. PRODUCCION ANUAL con: Descripción de los principales productos Aspectos del mercado Exportaciones
	Parte de VIII. CARACTERISTICAS TECNOLOGICAS
V. CONSUMO ANUAL	VII. CONSUMO ANUAL
VI. VALOR AÑADIDO	VI. VALOR AÑADIDO
VII. INDICES DE INGRESOS MENSUALES	II. SUELdos Y SALARIOS BRUTOS MENSUALES
VIII. CARACTERISTICAS DE LA INDUSTRIA EN EL PAIS	X. CARACTERISTICAS DE LA INDUSTRIA EN EL PAIS

A pesar de los cambios de presentación, la definición de los conceptos económicos básicos permanece inalterada en los tres volúmenes.¹

Ultima evolución del programa de los Perfiles

Desde la publicación del volumen I de los *Profiles* a principios de 1968, la serie ha sido muy utilizada como documento de referencia de usos múltiples por personal técnico dedicado a estudios y planificación industriales en los países en desarrollo. Al parecer, los usos más típicos han sido: a) para buscar y comprobar información sobre oportunidades particulares de inversión destinadas al desarrollo y promoción de proyectos; b) como ayuda para evaluar los estudios de consultores y las ofertas de los proveedores para proyectos de inversión industrial; c) como referencia comparativa para analizar la eficacia de los establecimientos industriales existentes.

Hay que advertir, sin embargo, que el objetivo de estos datos de referencia no es la creación «instantánea» de expertos, sino añadir un elemento más al amplio cúmulo de calificaciones profesionales e informaciones que necesitan los analistas que trabajan en cuestiones de política, programación y promoción industriales.

Parece ser también que esta publicación ha estimulado a algunos países en desarrollo a examinar más atentamente el rendimiento y la capacidad de las industrias existentes, a efectos de planificación. La ONUDI ha recibido ya de países en desarrollo algunas solicitudes de asesoramiento técnico y capacitación

¹ Véanse las «notas técnicas» en el suplemento al volumen I de *Profiles of Manufacturing Establishments* (ID/SER.E/4 Suppl.), páginas XLIV-LV, donde se encuentran traducidas al español, francés y ruso.

III. EXISTENCIAS (sin información sobre capital de operaciones deseado)	IV. PLANTILLA con: Tiempo de trabajo por operario Parte de VIII. CARACTERISTICAS TECNOLOGICAS
V. PRODUCCION ANUAL con: Descripción de los principales productos Aspectos del mercado Exportaciones	Parte de VIII. CARACTERISTICAS TECNOLOGICAS
VII. CONSUMO ANUAL	VII. CONSUMO ANUAL
VI. VALOR AÑADIDO	VI. VALOR AÑADIDO
II. SUELdos Y SALARIOS BRUTOS MENSUALES	II. SUELdos Y SALARIOS BRUTOS MENSUALES
X. CARACTERISTICAS DE LA INDUSTRIA EN EL PAIS	X. CARACTERISTICAS DE LA INDUSTRIA EN EL PAIS

en la recopilación de datos a nivel de los establecimientos para fines relacionados con estudios industriales, planificación de proyectos, diagnóstico de políticas nacionales, planes de integración regional, clínicas de gestión, etc.

Al prestar esa asistencia técnica, se ha procurado que los perfiles sean suficientemente detallados para satisfacer los objetivos concretos de la recopilación de datos previstos en cada caso. Al mismo tiempo, se intenta profundizar en las técnicas de comparación entre empresas para adaptarse a los objetivos propuestos. De este modo, las actividades sobre el terreno que revelan las líneas de los *Profiles* se caracterizan cada vez más por un criterio multidisciplinario para el diagnóstico de las actividades industriales a nivel de los establecimientos, es decir, por una base de trabajo común para los tecnólogos, ingenieros, contables, estadísticos y economistas planificadores.

Estas operaciones sobre el terreno relacionadas con los *Profiles*, aun persiguiendo cada una fundamentalmente unos fines concretos en el plano nacional, podrían tener un efecto secundario importante. Ese efecto es el siguiente: con métodos adecuados para neutralizarlos, los resultados de los estudios nacionales de casos pueden combinarse en formas resumidas para la difusión general, cuando proceda. Es probable, por tanto, que las futuras publicaciones de esta serie comprendan varios tipos de perfiles en formas diversas, según las fuentes. Sin embargo, se hará todo lo posible para asegurar la continuidad de la serie ateniéndose a su objetivo básico: proporcionar microdatos de referencia para la programación industrial.

CONSOLIDATED LIST OF ESTABLISHMENTS

in Volumes I to III

<i>Country</i>	<i>Classification</i>	<i>Major products</i>	<i>Vol. No.</i>	<i>Page</i>
SLAUGHTERING, PREPARATION AND PRESERVING OF MEAT				
East Africa	: 201/203-(1)	Slaughtering and beef canning	III	820
El Salvador	: 201-(1)	Sausages and ham	III	822
Middle Europe	: 201-(1)	Slaughtering of cattle, pigs, calves and sheep	III	824
MANUFACTURE OF DAIRY PRODUCTS				
Mexico	: 202-(1)	Cheese, butter, cream, etc.	III	828
Middle Europe	: 202-(1)	Whole milk powder, cream powder, skimmed milk powder and chocolate preparation	III	830
Middle Europe	: 202-(2)	Soft cheese and heavy cream	III	834
Middle Europe	: 202-(3)	Fresh milk, butter, cheese, whey, curd, etc.	III	838
France	: 202-(1)	Milk, sterilized and pasteurized, yoghurt, fresh cream and cheese	I	16
France	: 202-(2)	Milk, sterilized, pasteurized and powdered, butter, etc.	I	18
France	: 202-(3)	Pasteurized milk, butter, cream, etc.	I	20
India	: 202-(1)	Powdered milk, cheese, casein, etc.	II	364
India	: 202-(2)	Milk, pasteurized and powdered, ice cream, butter and ghee	I	22
Israel	: 202-(1)	Pasteurized milk, butter, ghee, cream, etc.	I	24
Israel	: 202-(2)	Sterilized milk, cream, hard curds, butter, etc.	I	26
Israel	: 202-(3)	Curds, cheese, sour cream, butter, ice cream, etc.	I	28
Yugoslavia	: 202-(1)	Ice cream	I	30
Yugoslavia	: 202-(2)	Milk, powdered, condensed and evaporated, powdered egg, etc.	I	32
Yugoslavia	: 202-(3)	Powdered milk and egg, cheese, butter, etc.	I	33
Yugoslavia	: 202-(4)	Yoghurt, butter, cheese, ice cream, etc.	I	34
		Butter, cheese and other dairy products	II	366
FOOD CANNING				
Mexico	: 203-(1)	Bottled olives, capers, olive oil, powdered soups and vinegar	III	842
Mexico	: 203/204-(2)	Canned vegetables, fruits and fruit juices	III	844
Middle Europe	: 203-(1)	Fruits and vegetables canning and bottling	III	846
Middle Europe	: 203-(2)	Canned fruits and vegetables	III	850
Middle Europe	: 203/201-(3)	Canned meat, fruits and vegetables; jams, fruit juices, frozen vegetables and farinaceous products	III	854
India	: 203-(1)	Fruits and vegetables canning	I	36
Israel	: 203-(1)	Fruits and vegetables canning	I	38
Israel	: 203-(2)	Fruits and vegetables canning	I	40
Japan	: 203/4-(1)	Fish and fruits canning	I	42
Japan	: 203/4-(2)	Fish and fruits canning	I	44
Japan	: 203/4-(3)	Fish canning	I	46
Yugoslavia	: 204-(1)	Fish canning and dried fish flour	II	368
Yugoslavia	: 203/1-(2)	Vegetable and meat processing and packing (including canning)	II	369
Yugoslavia	: 203/211-(3)	Vegetables canning, fruits processing and alcoholic beverages	II	370
MANUFACTURE OF GRAIN MILL PRODUCTS				
East Africa	: 205-(1)	Wheat flour	III	858
East Africa	: 205-(2)	Wheat flour, maize flour, rice, etc.	III	860
Mexico	: 205-(1)	Wheat flour and by-products	III	862

<i>Country</i>	<i>Classification</i>	<i>Major products</i>	<i>Vol. No.</i>	<i>Page</i>
Middle Europe	205-(1)	MANUFACTURE OF GRAIN MILL PRODUCTS (cont.)		
Middle Europe	205-(2)	Wheat semolina, flour and bran; rye flour, meal, pollards and bran	III	864
Middle Europe	205-(3)	Wheat and rye flour	III	868
India	205-(1)	Wheat flour (and bran)	I	872
India	205-(2)	Wheat flour (and bran)	I	48
Israel	205-(1)	Wheat flour (and bran)	I	50
Israel	205-(2)	Wheat flour (and bran)	I	52
Israel	205-(3)	Wheat flour (and bran)	I	54
Israel	205-(4)	Wheat flour (and bran)	I	56
Japan	205-(1)	Wheat flour (and bran)	II	372
Japan	205-(2)	Wheat flour (and bran)	I	58
Yugoslavia	205-(1)	Wheat flour (and bran)	I	60
Yugoslavia	205-(2)	Wheat flour (and bran)	I	62
Yugoslavia	205-(3)	Wheat and corn flour and flour products	I	63
Yugoslavia	205-(4)	Wheat flour and flour products	II	64
				374
		SUGAR REFINERIES		
Mexico	207-(1)	Cane sugar refinery	III	876
Mexico	207-(2)	Cane sugar refinery	III	878
France	207-(1)	Beet sugar refineries	I	66
France	207(2)	Beet sugar refineries	I	68
India	207-(1)	Cane sugar refineries	I	70
India	207-(2)	Cane sugar refineries	I	376
Israel	207-(1)	Beet sugar refineries	I	72
Japan	207-(1)	Cane sugar refineries	I	74
Japan	207-(2)	Cane sugar refineries	I	76
Yugoslavia	207-(1)	Beet sugar refineries	I	78
Yugoslavia	207-(2)	Beet sugar refineries	I	79
Yugoslavia	207-(3)	Beet sugar refineries	I	80
Yugoslavia	207-(4)	Beet sugar refineries	II	378
Yugoslavia	207-(5)	Beet sugar refineries	II	379
Yugoslavia	207-(6)	Beet sugar refineries (with sugar spirit and liquor producing factories)	II	380
		MANUFACTURE OF MISCELLANEOUS FOOD PREPARATIONS		
El Salvador	209-(1)	Animal feeds	III	880
El Salvador	209/203-(2)	Macaroni and similar products, powdered soups	III	882
		SOFT DRINKS AND CARBONATED WATER INDUSTRIES		
East Africa	214-(1)	Soft drinks and soda water	III	884
		SPINNING, WEAVING AND FINISHING TEXTILES		
East Africa	231-(1)	Spun rayon fabrics	III	886
El Salvador	231-(1)	Rayon and synthetic-fibre fabrics	III	888
El Salvador	231-(2)	Cotton fabrics and gray goods	III	890
Mexico	231-(1)	Woollen yarn, fabrics, blankets, etc.	III	892
Mexico	231-(2)	Synthetic-fibre fabrics	III	894
Mexico	231-(3)	Cotton and synthetic-fibre fabrics	III	896
Mexico	231-(4)	Sacks and cordages of hard-fibres (palms, kenaff, hemp, etc.)	III	898
Middle Europe	231-(1)	Men's cloth	III	900
Middle Europe	231-(2)	Rayon lining, rayon and synthetic fabrics, ribbons	III	904
Middle Europe	231-(3)	Woollen and synthetic yarns	III	908
Middle Europe	231-(4)	Linen yarns and threads	III	912
Middle Europe	231-(5)	Yarns and threads, tyrecord	III	916
South Europe	231-(1)	Secondary processing of nylon yarn	III	920
France	231-(1)	Wool and synthetic yarn and fabrics	I	82
France	231-(2)	Cotton thread and yarn	I	84

<i>Country</i>	<i>Classification</i>	<i>Major products</i>	<i>Vol. No.</i>	<i>Page</i>
SPINNING, WEAVING AND FINISHING TEXTILES (cont.)				
France	: 231-(3)	Flax yarn	I	86
France	: 231-(4)	Wool and synthetic fibre yarn and thread	II	382
France	: 231-(5)	Cotton yarn	II	384
India	: 231-(1)	Cotton yarn and cloth, towels, tents and other made-up goods	I	88
India	: 231-(2)	Cotton yarn, cloth and made-up textiles	I	90
India	: 231-(3)	Jute bags, hessian cloth and other jute mill products	I	92
India	: 231-(4)	Jute yarn, cloth and bags	I	94
India	: 231-(5)	Cotton yarn, cloth, sheets, sarees, etc.	I	96
India	: 231-(6)	Cotton yarn, cloth, sarees, sheets, tents, etc.	I	98
India	: 231-(7)	Cotton yarn, cloth, dhoties, sheets, shirtings, etc.	II	386
India	: 231-(8)	Cotton yarn, cloth, dhoties, sheets, etc.	II	388
India	: 231-(9)	Woollen yarn, fabrics, towels, blankets, etc.	II	390
India	: 231-(10)	Woollen yarn, fabrics, flannel, voile, etc.	II	392
India	: 231-(11)	Worsted yarn and fabrics	II	394
Israel	: 231-(1)	Nylon yarn	I	100
Israel	: 231-(2)	Nylon yarn (banlon)	I	102
Israel	: 231-(3)	Nylon yarn and rayon tyre fabrics	I	104
Israel	: 231-(4)	Synthetic and woollen yarn	I	106
Israel	: 231-(5)	Cotton yarn	II	396
Israel	: 231-(6)	Cotton yarn and fabrics	II	398
Israel	: 231-(7)	Woollen yarn, fabrics and dyeing	II	400
Israel	: 231-(8)	Woollen yarn, fabrics and dyeing	II	402
Israel	: 231/243-(9)	Combed wool fabrics and trousers	II	404
Israel	: 231/243-(10)	Wool fabrics and trousers	II	406
Japan	: 231-(1)	Woollen and worsted fabrics	I	108
Japan	: 231-(2)	Woollen and silk fabrics	I	110
Yugoslavia	: 231-(1)	Cotton and synthetic yarn, thread and fabrics	I	112
Yugoslavia	: 231-(2)	Cotton, synthetic and cellulosic-fibre fabrics and knit-mill products	I	113
Yugoslavia	: 231-(3)	Cotton yarn and thread	I	114
Yugoslavia	: 231-(4)	Fabrics, cotton and synthetic fibres	I	115
Yugoslavia	: 231-(5)	Woollen, synthetic and cellulosic yarn and fabrics, and knitwear	I	116
Yugoslavia	: 231-(6)	Cotton yarn	II	408
Yugoslavia	: 231-(7)	Cotton yarn	II	409
Yugoslavia	: 231-(8)	Cotton fabrics	II	410
Yugoslavia	: 231-(9)	Woollen yarn and fabrics	II	411
Yugoslavia	: 231-(10)	Woollen fabrics	II	412
Yugoslavia	: 231-(11)	Rayon and synthetic fibre fabrics	II	413
Yugoslavia	: 231-(12)	Hemp, jute and sisal goods (ropes, cordage, sacks, etc.)	II	414
Yugoslavia	: 231-(13)	Woollen yarn and fabrics	II	415
Yugoslavia	: 231/243-(14)	Rayon- and synthetic-fibre fabrics and ready-made apparel	II	416
Yugoslavia	: 231-(15)	Cotton yarn and fabrics	II	417
Yugoslavia	: 231-(16)	Wool and man-made fibre yarn and fabrics	II	418
KNITTING MILLS AND WEARING APPAREL				
East Africa	: 232-(1)	Knitted socks	III	924
East Africa	: 243-(1)	Garments and shirts	III	926
El Salvador	: 232-(1)	Underwear for men and women, clothing for children	III	928
El Salvador	: 243-(1)	Shirts	III	930
Mexico	: 243-(1)	Shirts, trunk-hoses, etc.	III	932
Middle Europe	: 232-(1)	Knitting wool and knitwear	III	934
Middle Europe	: 243-(1)	Brassieres and suspender belts	III	938
Middle Europe	: 243-(2)	Men's coats, suits, jackets, trousers and vests	III	942
Middle Europe	: 243-(3)	Men's and children's shirts	III	946
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South Europe :	243-(3)	Wearing apparel (coats, jackets, suits and pants) (100,000 pieces annually)	III	958
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France	: 243-(1)	Wearing apparel	II	422
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India	: 232-(1)	Cotton and nylon knitwear (socks, vests, drawers, etc.)	II	426
India	: 232-(2)	Stockinet, underwear, stockings, etc.	II	428
Israel	: 232-(1)	Stockings and tights	II	430
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Iran	: 241/300-(1)	Shoes (leather, rubber, PVC, canvas)	III	962
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Middle Europe:	251-(1)	Sawn timber, chopped lumber, saw dust, etc.	III	980
Middle Europe:	251-(2)	Chip board	III	984
Middle Europe:	260-(1)	Steel and wooden furniture	III	988
France	: 251-(1)	Plywood panels	III	456
France	: 251-(2)	Particle board	II	458
India	: 251-(1)	Wooden parts, accessories for jute and cotton mills (shuttles, card staves, bobbins, etc.)	II	460
India	: 251-(2)	Veneer and plywood	II	462
Israel	: 251-(1)	Plywood and panels	II	464
Israel	: 251-(2)	Plywood, chip board and panels, boxes and furniture parts	II	466
Israel	: 251-(3)	Plywood, chip board and pencils	II	468
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Yugoslavia	: 251-(2)	Panel boards, particle board and veneers	II	475
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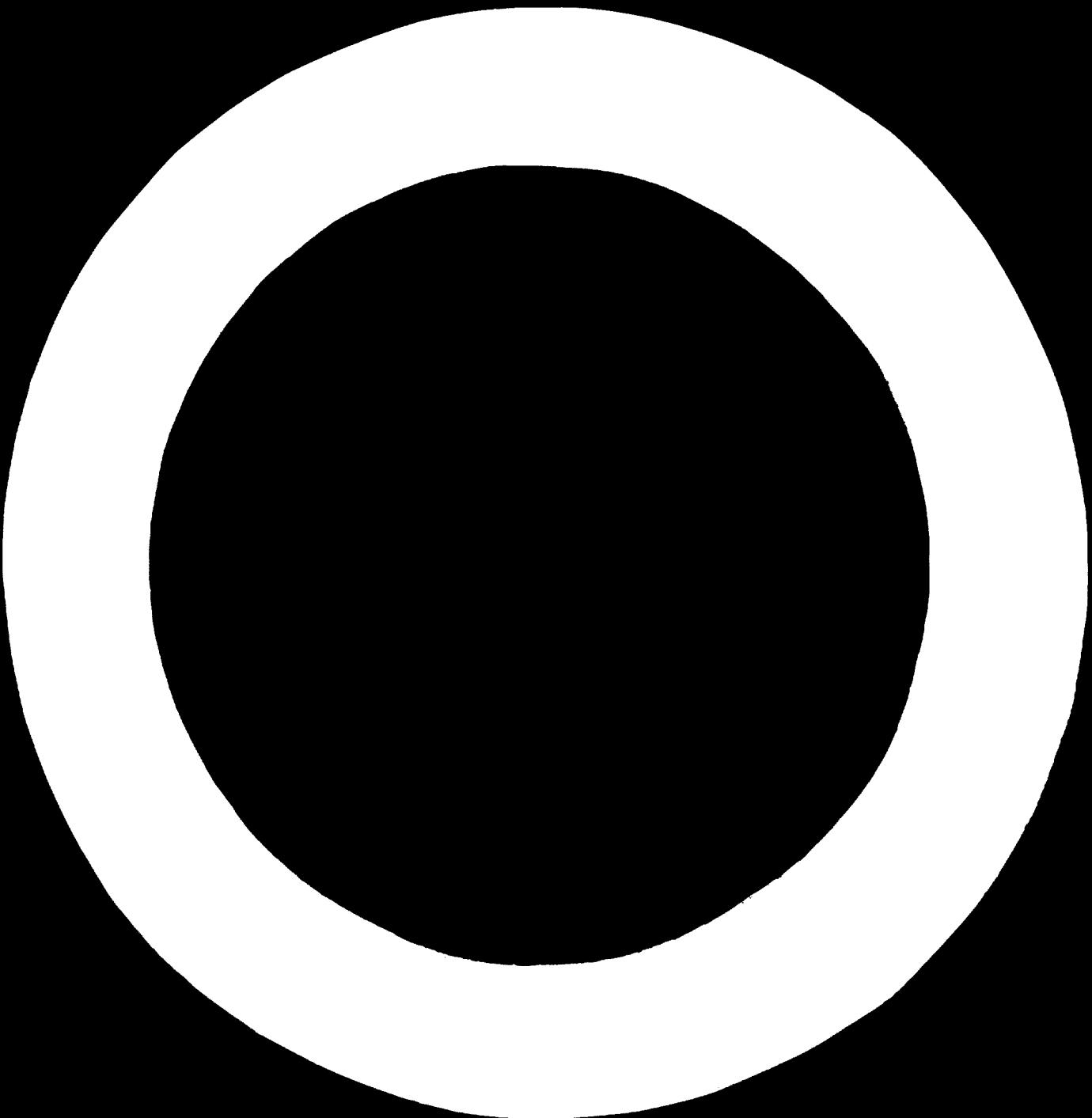
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Mexico	: 311-(1)	Fertilizers, organic and inorganic chemicals, plant protection products, pharmaceuticals, adhesives	III	1026
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Israel	: 311-(1)	Acetic acid, polyethylene, butyl acetate, ethylacetate, etc.	II	530
Israel	: 311-(2)	Pesticides, chlorine, caustic soda, plastic products, etc.	I	142
Israel	: 311-(3)	Ethylene, polyethylene and carbon black	I	144
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VEGETABLE AND ANIMAL OILS AND FATS				
East Africa	: 312 319-(1)	Soap, detergents and edible oils	III	1060
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Yugoslavia	: 312-(1)	Vegetable oils (edible and technical)	II	558
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Yugoslavia	: 312-(3)	Vegetable oils and fats, green maize, margarine and fatty acid	II	560
MANUFACTURE OF PAINTS, VARNISHES AND LACQUERS				
Mexico	: 313-(1)	Paints and synthetic resins	III	1068
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Japan	: 313-(1)	Paints, synthetic-resin enamels, varnishes and thinners	II	572
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Yugoslavia	: 313-(1)	Paints, varnishes, lacquers, insecticides, plastic glues, etc..	I	164
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Iran	: 319-(1)	Detergents	III	1078
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Mexico	: 319-(2)	Human and veterinary medical preparations (antibiotics and other materials)	III	1088
Mexico	: 319-(3)	Wax matches and friction matches	III	1090
Middle Europe	: 319-(1)	Soaps, detergents and cosmetics	III	1092
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India	: 319-(2)	Tinctures, galenicals, injectable vitamins and other medicines	I	168
India	: 319-(3)	Matches	II	576
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Middle Europe:	321-(1)	Lubricating oils and greases	III	1106
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Mexico	: 331-(1)	Bricks and other construction materials	III	1114
Mexico	: 332-(1)	Flat glass, flat and curved wind screens for cars, mirrors, etc.	III	1116
Mexico	: 332-(2)	Glassware (containers)	III	1118
Middle Europe:	331-(1)	Bricks, ceramic tiles, stoneware and stove tiles	III	1120
Middle Europe:	331-(2)	Fire bricks (solid, hollow, etc.)	III	1124
Middle Europe:	332-(1)	Glass bottles, wide-mouthed glass containers, lighting glasses, etc.	III	1128
France	: 332-(1)	Glass bottles	II	604
India	: 331-(1)	Firebricks, insulating bricks, sewage pipes and mortars	II	606
India	: 331-(2)	Firebricks and blocks, mortars and refined clay	II	608
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India	: 331-(4)	Glasswool, refractory products and stoneware pipes	II	612
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Israel	: 339-(1)	Asbestos-cement products (sheets, boards, pipes, etc.)	II	640
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Yugoslavia	: 339-(1)	Concrete products	II	654
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Mexico	: 341-(1)	ROLLING, DRAWING AND CASTING OF FERROUS METALS		
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India	: 341-(2)	Iron and steel foundry, with metal-working and finishing shops producing cane crushers and electric motors	I	204
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India	: 341-(4)	Iron foundry for machines and parts (hand cranes, pulley blocks, elevator trucks, travelling trolleys, etc.)	I	208
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France	: 342-(3)	Copper and brass strips	I	230
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Israel	: 342, 350-(2)	Aluminium rolling (foils, sheets, strips and discs)	I	238
Japan	: 342-(1)	Aluminium pipes and profiles; also windows and doors manufactured thereof	I	240
Yugoslavia	: 342-(1)	Copper and brass bars, rods, wire, pipes and tubes	I	242
Yugoslavia	: 342-(2)	Zinc and brass rolling and drawing (sheets, strips, bars, wire, tubes, etc.)	I	244
Yugoslavia	: 342-(3)	Zinc, copper, and other non-ferrous metal drawing and casting	I	245
Yugoslavia	: 342-(4)	Rolling, drawing and die-pressing of aluminium and alloys (sheets, strips, bars, wire tubes, sections, etc.)	I	246
		Drawn non-ferrous metal products (insulated wires, copper and copper alloy products, aluminium and steel ropes, etc.)	II	670
MANUFACTURE OF METAL PRODUCTS OTHER THAN MACHINERY AND TRANSPORT EQUIPMENT				
East Africa	: 350-(1)	Wire nails	III	1170
East Africa	: 350-(2)	Manufacture of enamelware (household wares)	III	1172
El Salvador	: 350-(1)	Copper and aluminium wires	III	1174
Mexico	: 350-(1)	Steel angles, bolts, nuts, steel wire rods, tanks, props, etc.	III	1176
Mexico	: 350-(2)	Cables, wires and wire products	III	1178
Mexico	: 350-(3)	Tin cans	III	1180
Mexico	: 350-(4)	Steel mould-shots (produced from steel wire)	III	1182
Middle Europe	: 350-(1)	Cans, cans with press-on-lids and other disposable containers	III	1184
Middle Europe	: 350-(2)	Enamelled copper wire	III	1188
Middle Europe	: 350/360-(3)	Steel structurals of various types, resonance vibrating machines, tube conveyors, belt conveyors and conveyor-rollers	III	1192
Middle Europe	: 350/360-(4)	Boilers, steel bridges, hydraulic steel superstructures, theatre stage equipment, apparatuses, tanks, penstocks, pressure vessels, cranes, ropeways, inclined lifts, steel and grey iron castings, etc.	III	1196
Middle Europe	: 350/360-(5)	Irrigation and agricultural equipment, steel profiles	III	1200
France	: 350-(1)	Metal stampings, tools and signalling devices	I	248
France	: 350-(2)	Steel and aluminium wires and cables (manufactured from wire rods)	I	250
France	: 350-(3)	Fabricated metal parts for automobiles and household articles	I	252
France	: 350-(4)	Radiators of various types	I	254
France	: 350-(5)	Window and door fixtures	I	256

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MANUFACTURE OF METAL PRODUCTS OTHER THAN MACHINERY AND TRANSPORT EQUIPMENT (cont.)				
France	: 350-(6)	Wire (galvanized, copper-sheathed, tempered, dressed, etc.) and wire products (fencing grills, welded nets, etc.)	I	258
France	: 350-(7)	Boilers, electronic fixtures, fittings and photographic apparatus	II	672
France	: 350-(8)	Metal frames, locksmitheries, joinery, zinc and copper wares, etc.	II	674
France	: 350-(9)	Sheet metal cuttings and stampings (for automobile and tractor parts)	II	676
France	: 350-(10)	Bolts, nuts, screws and washers	II	678
France	: 350-(11)	Bath tubs and tanks of cast iron	II	680
France	: 350-(12)	Office furniture and metal casks	II	682
France	: 350-(13)	Metal cuttings, stampings and tools	II	684
France	: 350-(14)	Sprinklers, teapots, buckets and other farm and household metalware	II	686
India	: 350-(1)	Screws, rivets, hinges and other builders' hardware	I	260
India	: 350-(2)	Tin boxes and containers	I	262
India	: 350-(3)	Fabricated structurals, storage vessels, pipes, etc. (with installation services)	I	264
India	: 350-(4)	Fabricated structurals (with installation services)	I	266
India	: 350-(5)	Household metalwares (aluminium)	I	268
India	: 350-(6)	Metal containers, metal caps and other metalware	II	688
India	: 350-(7)	Metal containers, crown corks and other metal products	II	690
India	: 350-(8)	Bolts, nuts and screws	II	692
India	: 350-(9)	Bolts, nuts, screws, rivets, nails, etc.	II	694
India	: 350-(10)	Household metalware (utensils, circles, rivets, strips, etc.)	II	696
Israel	: 350-(1)	Pipe fittings and other iron and steel foundry products	I	270
Israel	: 350-(2)	Wire, nail and rivets	I	272
Israel	: 350-(3)	Wire, wire mesh and other wire products	I	274
Israel	: 350-(4)	Window frames and doors of aluminium profiles	I	276
Israel	: 350-(5)	Irrigation pipes and accessories, aluminium profiles and doors and window frames made thereof	I	278
Israel	: 350-(6)	Solar heat absorbers and storage furniture	II	698
Japan	: 350-(1)	Steel drums	I	280
Japan	: 350-(2)	Dust shoots, screen plates, flexible tubes, door hangers and chairs (mostly steel but partly plastic)	I	282
Japan	: 350-(3)	Metal valves and fire hydrants	I	284
Japan	: 350-(4)	Cans, caps and other containers (tin and aluminium)	I	286
Japan	: 350-(5)	Pails, buckets, basins, etc. (both metal and plastic)	I	288
Japan	: 350-(6)	Fabricated steel structurals	I	290
Japan	: 350-(7)	Sashes, steel and aluminium	I	292
Japan	: 350-(8)	Window shutters (both heavy and light types)	I	294
Japan	: 350-(9)	Wire rope, steel strand and steel wire	I	296
Japan	: 350-(10)	Steel wires	II	700
Japan	: 350-(11)	Wire springs and flat springs	II	702
Japan	: 350-(12)	Tin-plate products (cans, etc.)	II	704
Japan	: 350-(13)	Machine screws, bolts and nuts	II	706
Japan	: 350-(14)	Bolts and nuts	II	708
Japan	: 350-(15)	Bolts, nuts, screws, rivets, etc.	II	710
Yugoslavia	: 350-(1)	Metal containers and barrels	I	298
Yugoslavia	: 350-(2)	Enamelware, vessels, radiators, boilers, etc.	I	299
Yugoslavia	: 350-(3)	Agricultural hand tools (hand-forging products)	I	300
Yugoslavia	: 350-(4)	Agricultural hand tools (cast and forged products)	I	301
Yugoslavia	: 350-(5)	Fabricated steel structurals, reservoirs, industrial cranes, refrigeration equipment, etc.	I	302
Yugoslavia	: 350-(6)	Steel chains (and agricultural machines parts)	II	712
Yugoslavia	: 350-(7)	Cast and forged agricultural hand tools	II	713
Yugoslavia	: 350-(8)	Cooking ranges and tin-plate containers	II	714
Yugoslavia	: 350-(9)	Radiators and boilers	II	715
Yugoslavia	: 350-(10)	Screw propellers	II	716

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MANUFACTURE OF METAL PRODUCTS OTHER THAN MACHINERY AND TRANSPORT EQUIPMENT (cont.)				
Yugoslavia	: 350-(11)	Cooking, heating and other household equipment and fittings	II	717
Yugoslavia	: 350-(12)	Metal furniture	II	718
Yugoslavia	: 350-(13)	Spiral products, school equipment and other metal and plastic products	II	719
Yugoslavia	: 350-(14)	Castings and fittings for water conduits and textile machine parts	II	720
Yugoslavia	: 350-(15)	Screw propellers and wire products	II	721
Yugoslavia	: 350-(16)	Fittings, flanges and other hardwares	II	722
MANUFACTURE OF MACHINERY, NON-ELECTRICAL				
Iran	: 360-(1)	Household refrigerators, water coolers and a variety of heating and cooling apparatuses	III	1204
Iran	: 360-(2)	Refrigerators, coolers, heaters, etc.	III	1208
Mexico	: 360-(1)	Cranes and stamping presses	III	1212
Mexico	: 360-(2)	Tractors, seeders, cultivators, harrows and other agricultural implements	III	1214
Mexico	: 360-(3)	Agricultural tractors	III	1216
Mexico	: 360-(4)	Agricultural machinery, trucks and tractors	III	1218
Middle Europe:	360-(1)	Pumps, motors, switchgear	III	1220
Middle Europe:	360-(2)	Chopper-blowers, combine harvesters, potato harvesters, maize attachments, etc.	III	1224
Middle Europe:	360-(3)	Machinery and equipment for plastic processing industry	III	1228
Middle Europe:	360-(4)	Forging machines, crankshaft milling machines and drilling machines	III	1232
Middle Europe:	360-(5)	Universal machine tools, woodworking machines, lathe chucks, hardness testing devices	III	1236
Middle Europe:	360-(6)	Turret and chuck lathes	III	1240
Middle Europe:	360-(7)	Ball supports, ball cages, standard ball bearings, etc.	III	1244
France	: 360-(1)	Ball bearings	I	304
France	: 360-(2)	Latnes, with accessories and spare parts	I	306
France	: 360-(3)	Milling machines	II	724
France	: 360/381-(4)	Diesel engines (marine and industrial)	II	726
France	: 360-(5)	Pumps and related equipment and fixtures	II	728
France	: 360-(6)	Centrifugal pumps and compressors	II	730
France	: 360-(7)	Controlling and regulating equipment for turbines	II	732
France	: 360-(8)	Presses	II	734
India	: 360-(1)	Centrifugal pumps	I	308
India	: 360-(2)	Centrifugal machines, crystallizers, crab winches, etc.	I	310
India	: 360-(3)	Cranes, winches, sand mixers and other construction equipment	I	312
India	: 360-(4)	Cranes, concrete mixers, pipes, etc.	I	314
India	: 360-(5)	Cultivators, dusters, threshers and other agricultural machines and implements	I	316
India	: 360-(6)	Cranes, trolleys, elevating trucks and other material-handling equipment	I	318
India	: 360/341-(7)	Diesel engines, power looms, agricultural pumps and machine tools castings	I	736
India	: 360-(8)	Agricultural trailers, harrows, ploughs, etc.	II	738
India	: 360-(9)	Lathes, planers, band saws and rolled products	II	740
India	: 360-(10)	Sewing machines (complete and parts)	II	742
India	: 360-(11)	Shearing machines and power presses	II	744
India	: 360-(12)	Threshers, winnowers, cultivators and Persian wheels	II	746
India	: 360-(13)	Dies, jigs and fixtures	II	748
India	: 360-(14)	Lathes	II	750
India	: 360-(15)	Metal structurals, storage vessels, electrical hoists, band saws, sugar machinery and paper machinery	II	752
India	: 360-(16)	Pumps and switches	II	754
Israel	: 360-(1)	Hydraulic pumps and cylinders	I	320

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Israel	: 360-(2)	Hay balers, grain drills, planters, grading machines, etc.	I	322
Israel	: 360-(3)	Seeders, cultivators and pickers	I	324
Israel	: 360-(4)	Pumps	II	756
Japan	: 360-(1)	Ball bearings, machine parts, pumps and powder metallurgy products	I	326
Japan	: 360-(2)	Powered tillers, sprayers, pumps, bush-cutters, etc.	I	328
Japan	: 360-(3)	Pumps of various types	I	330
Japan	: 360-(4)	Agricultural implements (tractor plows, loaders, harrows, etc.)	II	758
Japan	: 360-(5)	Agricultural implements, (hillers, weeders, rotors and rakes)	II	760
Japan	: 360-(6)	Feed cutters	II	762
Yugoslavia	: 360-(1)	Pumps and agricultural machines	I	332
Yugoslavia	: 360-(2)	Combines, lorries, milling machines, and other agricultural equipment and parts	I	333
Yugoslavia	: 360-(3)	Lathes and boring equipment	I	334
Yugoslavia	: 360-(4)	Compressors, pneumatic tools, car lights and other spare parts for automobiles	I	335
Yugoslavia	: 360-(5)	Ball bearings	I	336
Yugoslavia	: 360-(6)	Water turbines, suction pumps, diesel motors and other industrial machines and apparatus	II	764
Yugoslavia	: 360-(7)	Diesel engines and tractors	II	765
Yugoslavia	: 360-(8)	Sewing machines	II	766
Yugoslavia	: 360-(9)	Elevators, staircases and other metal structures	II	767
MANUFACTURE OF ELECTRICAL MACHINERY, APPARATUS, APPLIANCES AND SUPPLIES				
Iran	: 370-(1)	Plastic insulated electrical cables	III	1248
Iran	: 370-(2)	Television and radio sets and gramophones	III	1252
Iran	: 370-(3)	Television sets	III	1256
Mexico	: 370-(1)	Electric lamps	III	1260
Mexico	: 370-(2)	Non-ferrous wires, conductors and cables	III	1262
Middle Europe	: 370-(1)	Stationary small-scale batteries for telephone exchanges and starter batteries for motor vehicles	III	1264
Middle Europe	: 370-(2)	Power transmission cables and lines, telecommunication cables and lines, cable fittings	III	1268
Middle Europe	: 370-(3)	Refrigerators, freezers, automatic washing machines, electric motors, etc.	III	1272
Middle Europe	: 370-(4)	Bulbs, fluorescent lamps, radio valves, molybden wires, etc.	III	1276
Middle Europe	: 370-(5)	Plastic coated cables, plastic coated lines, jumper wires and strands	III	1280
Middle Europe	: 370-(6)	Bare and insulated wires and rods of non-ferrous metals	III	1284
Middle Europe	: 370-(7)	Rolled copper wires (coils)	III	1288
South Europe	: 370-(1)	Electrical control units and parts for household domestic appliance industry	III	1292
France	: 370-(1)	Electric motors, industrial and non-industrial	II	768
France	: 370-(2)	Electric pliers, other apparatus, machines and parts	II	770
India	: 370-(1)	Electric switchboards, distribution boards, cartridge fuses and industrial motors	II	772
India	: 370-(2)	Transformers, switchgears, capacitors, motors, generators and other heavy electrical machinery	II	774
India	: 370-(3)	Electric motors	II	776
India	: 370-(4)	P.V.C.- and paper-insulated electric cables	II	778
India	: 370-(5)	Paper-insulated electric cables	II	780
India	: 370-(6)	Paper-insulated electric cables	II	782
India	: 370-(7)	Rubber- and P.V.C.-insulated electric cables and flexibles	II	784
India	: 370-(8)	Rubber- and P.V.C.-insulated electric cables and flexibles	II	786
India	: 370-(9)	Electric light bulbs	II	788
Israel	: 370-(1)	Electric motors	II	790
Israel	: 370-(2)	Electric light bulbs	II	792
Israel	: 370-(3)	Electric light bulbs	II	794

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Japan	: 370-(1)	Insulated electric cables and wires	II	796
Yugoslavia	: 370-(1)	Electric motors	II	798
Yugoslavia	: 370-(2)	Electric motors, generators, transformers, switchboards and furnaces	II	799
Yugoslavia	: 370-(3)	Electric light bulbs, small batteries and motors	II	800
Yugoslavia	: 370-(4)	Electric light bulbs and fluorescent tubes	II	801
Yugoslavia	: 370-(5)	Electric wires and cables	II	802
Yugoslavia	: 370-(6)	Electric fuses, switches, sockets, plugs, lamps and other electrical insulation materials and parts for household appliances	II	803
Yugoslavia	: 370-(7)	Electric cookers, heaters, refrigerators, washing machines, etc.	II	804
Yugoslavia	: 370-(8)	Household electric boilers and ovens	II	805
MANUFACTURE AND ASSEMBLY OF BUSES, TRUCKS AND TRUCK-TRAILERS				
Iran	: 383-(1)	Assembly of buses, mini-buses and passenger cars	III	1296
Mexico	: 383-(1)	Automobiles and trucks (light and heavy duty)	III	1300
Middle Europe	: 383-(1)	Prototype internal combustion engines, electronic measuring units, research and test engines, test benches, design of factory layouts, etc.	III	1302
France	: 383-(1)	Assembly of buses and motor coaches	I	338
India	: 383-(1)	Assembly of trucks, vans, buses and cars; with manufacture of chassis and some spare parts	I	340
Israel	: 383-(1)	Bus bodies and drivers' cabins	I	342
Israel	: 383-(2)	Bus bodies and drivers' cabins	I	344
Israel	: 383-(3)	Assembly of trucks and buses	I	346
Japan	: 383-(1)	Bus bodies	I	348
Yugoslavia	: 383-(1)	Assembly of lorries and buses, with manufacture of engines and bodies	I	350
MANUFACTURE OF MOTORCYCLES AND BICYCLES				
Mexico	: 385-(1)	Production of motorcycles and bicycles	III	1306
Middle Europe	: 385-(1)	Bicycles	III	1308
India	: 385-(1)	Bicycles	I	352
India	: 385-(2)	Bicycles	I	354
India	: 385-(3)	Bicycles	I	356
India	: 385-(4)	Motorcycles and scooters (complete and spare parts)	II	806
India	: 385-(5)	Bicycles	II	808
India	: 385-(6)	Bicycles	II	810
Japan	: 385-(1)	Bicycles	I	358
Japan	: 385-(2)	Bicycles	I	360
Japan	: 385-(3)	Bicycles	II	812
Yugoslavia	: 385-(1)	Bicycles	II	814
Yugoslavia	: 385-(2)	Bicycles	I	360
Yugoslavia	: 385-(3)	Bicycles and scooters	I	361
		Motor scooters	II	816
INDUSTRY GROUPS NOT ELSEWHERE SPECIFIED				
El Salvador	: 399-(1)	Plastic table sets	III	1312
India	: 389-(1)	Wagons, with semi-finished steel products from rolling mills and foundry shop	I	362
Yugoslavia	: 393-(1)	Clocks and water gauges	II	817
Yugoslavia	: 399-(1)	Pencils, pens and other office supplies	II	818

LISTE GENERALE DES ETABLISSEMENTS

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<i>Pays</i>	<i>Classification</i>	<i>Principaux produits</i>	<i>Numéro du volume</i>	<i>Page</i>
ABATTAGE DU BÉTAIL, FABRICATION DES PRÉPARATIONS ET CONSERVES DE VIANDE				
Afrique de l'Est	: 201/203-(1)	Abattage de bœufs et mise en boîte	III	820
El Salvador	: 201-(1)	Saucisses et jambons	III	822
Europe centrale	: 201-(1)	Abattage de bœufs, de porcs, de veaux et de moutons..	III	824
INDUSTRIE DU LAIT				
Mexique	: 202-(1)	Fromage, beurre, crème, etc.	III	828
Europe centrale	: 202-(1)	Lait entier en poudre, crème en poudre, lait écrémé en poudre et préparation du chocolat.....	III	830
Europe centrale	: 202-(2)	Fromage à pâte molle et crème épaisse	III	834
Europe centrale	: 202-(3)	Lait frais, beurre, fromage, petit lait, caillé, etc.....	III	838
France	: 202-(1)	Lait, stérilisé et pasteurisé, yogourt, crème fraîche et fromage	I	16
France	: 202-(2)	Lait, stérilisé, pasteurisé et en poudre, beurre, etc.	I	18
France	: 202-(3)	Lait, beurre, crème pasteurisés, etc.	I	20
Inde	: 202-(4)	Lait en poudre, fromage, caséine, etc.	II	364
Inde	: 202-(1)	Lait, pasteurisé et en poudre, crème glacée, beurre et ghee	I	22
Israël	: 202-(2)	Lait, beurre, ghee, crème pasteurisés, etc.	I	24
Israël	: 202-(1)	Lait, crème, caillé, beurre stérilisés, etc.	I	26
Israël	: 202-(2)	Caillé, fromage, crème aigre, beurre, crème glacée, etc.	I	28
Israël	: 202-(3)	Crème glacée	I	30
Yougoslavie	: 202-(1)	Lait, en poudre, condensé et évaporé, œufs en poudre, etc.	I	32
Yougoslavie	: 202-(2)	Lait et œufs en poudre, fromage, beurre, etc.	I	33
Yougoslavie	: 202-(3)	Yogourt, beurre, fromage, crème glacée, etc.	I	34
Yougoslavie	: 202-(4)	Beurre, fromage et autres produits laitiers	II	366
FABRICATION DE CONSERVES ALIMENTAIRES				
Mexique	: 203-(1)	Olives et câpres en flacons, huile d'olive, potages en poudre et vinaigre	III	842
Mexique	: 203/204-(2)	Légumes, fruits et jus de fruits en boîtes	III	844
Europe centrale	: 203-(1)	Mise en boîtes et en flacons de fruits et de légumes ...	III	846
Europe centrale	: 203-(2)	Fruits et légumes en boîtes	III	850
Europe centrale	: 203/201-(3)	Viande, fruits et légumes en boîtes; confiture, jus de fruits, fruits congelés et produits farineux	III	854
Inde	: 203-(1)	Conсерves de fruits et de légumes	I	36
Israël	: 203-(1)	Conсерves de fruits et de légumes	I	38
Israël	: 203-(2)	Conсерves de fruits et de légumes	I	40
Japon	: 203/4-(1)	Conсерves de poissons et de fruits	I	42
Japon	: 203/4-(2)	Conсерves de poissons et de fruits	I	44
Japon	: 203/4-(3)	Conсерves de poissons	I	46
Yougoslavie	: 204-(1)	Conсерves de poissons et farine de poisson séché	II	368
Yougoslavie	: 203/1-(2)	Traitement et conditionnement des légumes et des viandes (y compris mise en conserve)	II	369
Yougoslavie	: 203/211-(3)	Conсерves de légumes, traitement des fruits et des boissons alcoolisées	II	370
TRAVAIL DES GRAINS				
Afrique de l'Est	: 205-(1)	Farine de froment	III	858
Afrique de l'Est	: 205-(2)	Farine de froment, farine de maïs, riz, etc.	III	860

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Mexique	: 205-(1)	TRAVAIL DES GRAINS (suite)		
Europe centrale	: 205-(1)	Farine de froment et sous-produits	III	862
Europe centrale	: 205-(2)	Semoule, farine et son de froment; farine fine, farine grossière, repasses et son de seigle	III	864
Europe centrale	: 205-(3)	Farine de froment et de seigle	III	868
Inde	: 205-(1)	Farine de froment et de seigle	III	872
Inde	: 205-(2)	Farine de froment (et son)	I	48
Israël	: 205-(1)	Farine de froment (et son)	I	50
Israël	: 205-(2)	Farine de froment (et son)	I	52
Israël	: 205-(3)	Farine de froment (et son)	I	54
Israël	: 205-(4)	Farine de froment (et son)	I	56
Japon	: 205-(1)	Farine de froment (et son)	II	372
Japon	: 205-(2)	Farine de froment (et son)	I	58
Yougoslavie	: 205-(1)	Farine de froment (et son)	I	60
Yougoslavie	: 205-(2)	Farine de froment (et son)	I	62
Yougoslavie	: 205-(3)	Farine de froment (et son)	I	63
Yougoslavie	: 205-(4)	Farine de froment et de maïs et produits de la farine	I	64
		Farine de froment et produits de la farine	II	374
Mexique	: 207-(1)	RAFFINERIES DE SUCRE		
Mexique	: 207-(2)	Raffinerie de sucre de canne	III	876
France	: 207-(1)	Raffinerie de sucre de canne	III	878
France	: 207-(2)	Raffineries de sucre de betterave	I	66
Inde	: 207-(1)	Raffineries de sucre de betterave	I	68
Inde	: 207-(2)	Raffineries de sucre de canne	I	70
Israël	: 207-(1)	Raffineries de sucre de canne	II	376
Japon	: 207-(1)	Raffineries de sucre de betterave	I	72
Japon	: 207-(2)	Raffineries de sucre de canne	I	74
Yougoslavie	: 207-(1)	Raffineries de sucre de canne	I	76
Yougoslavie	: 207-(2)	Raffineries de sucre de betterave	I	78
Yougoslavie	: 207-(3)	Raffineries de sucre de betterave	I	79
Yougoslavie	: 207-(4)	Raffineries de sucre de betterave	I	80
Yougoslavie	: 207-(5)	Raffineries de sucre de betterave	II	378
Yougoslavie	: 207-(6)	Raffineries de sucre de betterave (et fabriques de spiritueux et liqueurs à base de sucre)	II	379
				380
El Salvador	: 209-(1)	INDUSTRIES ALIMENTAIRES DIVERSES		
El Salvador	: 209/203-(2)	Aliments du bétail	III	880
		Pâtes alimentaires, potages en poudre	III	882
Afrique de l'Est	: 214-(1)	INDUSTRIE DES BOISSONS HYGIÉNIQUES ET EAUX GAZEUSES		
		Boissons hygiéniques et sodas	III	884
Afrique de l'Est	: 231-(1)	FILATURE, TISSAGE ET FINISSAGE DES TEXTILES		
El Salvador	: 231-(1)	Tissus de rayonne	III	886
El Salvador	: 231-(2)	Tissus de rayonne et de fibres synthétiques	III	888
Mexique	: 231-(1)	Cotonnades et articles écrus	III	890
Mexique	: 231-(2)	Filés, tissus et couvertures de laine, etc.	III	892
Mexique	: 231-(3)	Tissus de fibres synthétiques	III	894
Mexique	: 231-(4)	Tissus de coton et de fibres synthétiques	III	896
Europe centrale	: 231-(1)	Sacs et cordages de fibres dures (palmiers, kenaff, chanvre, etc.)	III	898
Europe centrale	: 231-(2)	Vêtements pour hommes	III	900
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Inde	: 319-(3)	Allumettes	II	576
Inde	: 319-(4)	Allumettes	II	578
Inde	: 319-(5)	Allumettes	II	580
Inde	: 319-(6)	Préparations médicinales (vitamines, antibiotiques, onguents, sirops, etc.)	II	582
Inde	: 319-(7)	Préparations médicinales (vitamines, hormones, produits injectables, teintures, etc.)	II	584
Inde	: 319-(8)	Préparations médicinales (ambramycine, synthomycétine, etc.)	II	586
Inde	: 319-(9)	Préparations médicinales (brucine, éphédrine, strychnine, etc.)	II	588
Inde	: 319-(10)	Savons, glycérine et acides gras	II	590
Inde	: 319-(11)	Savons de toilette et savons pour la lessive	II	592
Israël	: 319-(1)	Allumettes	I	170
Israël	: 319-(2)	Préparations médicinales	II	594
Israël	: 319-(3)	Préparations médicinales	II	596
Israël	: 319-(4)	Savons en poudre, produits sulfonés et détergents	II	598
Japon	: 319-(1)	Antibiotiques et diverses autres préparations médicales	I	172
Japon	: 319-(2)	Allumettes	I	174
Japon	: 319-(3)	Allumettes et bois d'allumettes	I	176
Yougoslavie	: 319-(1)	Substances pharmaceutiques, insecticides et cosmétiques	I	178
Yougoslavie	: 319-(2)	Pénicilline, streptomycine et autres antibiotiques	I	179
Yougoslavie	: 319-(3)	Allumettes	I	180

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FABRICATION D'ALLUMETTES, PRODUITS MÉDICINAUX, SAVONS ET DÉTERGENTS, ETC. (suite)				
Yugoslavie	: 319-(4)	Savon et autres préparations pour la toilette et la lessive	II	600
Yugoslavie	: 319-(5)	Savon et autres préparations pour la toilette et la lessive	II	601
Yugoslavie	: 319-(6)	Savon et autres préparations pour la toilette et la lessive	II	602
RAFFINERIES DE PÉTROLE				
Europe centrale	: 321-(1)	Huiles et graisses lubrifiantes	III	1106
FABRICATION DE BRIQUES ET DE TUILES ET INDUSTRIES DU VERRE				
Iran	: 332-(1)	Verre à vitres, gobelets, bouteilles, articles en cristal, etc.	III	1110
Mexique	: 331-(1)	Briques et autres matériaux de construction	III	1114
Mexique	: 332-(1)	Verre plat, pare-brise plats et incurvés pour automobiles, miroirs, etc.	III	1116
Mexique	: 332-(2)	Articles en verre (réceptacles)	III	1118
Europe centrale	: 331-(1)	Briques, carreaux de céramique, articles en grès et carrelages pour poêles	III	1120
Europe centrale	: 331-(2)	Briques en argile réfractaire (pleines, creuses, etc.)	III	1124
Europe centrale	: 332-(1)	Bouteilles en verre, réceptacles en verre à large ouverture, verres de lampe, etc.	III	1128
France	: 332-(1)	Bouteilles en verre	II	604
Inde	: 331-(1)	Briques de terre réfractaire, briques isolantes, canalisations, tuyauteries d'égout et mortiers	II	606
Inde	: 331-(2)	Briques et blocs de terre réfractaire, mortiers et argile raffinée	II	608
Inde	: 331-(3)	Briques de terre réfractaire	II	610
Inde	: 331-(4)	Laine de verre, articles en terre réfractaire et canalisations en grès	II	612
Israël	: 331-(1)	Tuiles (blanches et de couleur)	II	614
Israël	: 332-(1)	Verrerie (tasses, bouteilles, etc.)	II	616
Yugoslavie	: 331-(1)	Tuiles de céramique, articles sanitaires en céramique et autres articles en céramique pour usage domestique	II	618
Yugoslavie	: 331-(2)	Briques et tuiles	II	619
Yugoslavie	: 331-(3)	Briques en argile réfractaire et autres matériaux réfractaires	II	620
Yugoslavie	: 331-(4)	Briques	II	621
Yugoslavie	: 332-(1)	Verre plat et verrerie	II	622
Yugoslavie	: 332-(2)	Réceptacles en verre	II	623
Yugoslavie	: 332-(3)	Articles en verre	II	624
FABRICATION DES CIMENTS (LIANTS HYDRAULIQUES)				
Afrique de l'Est	: 334-(1)	Ciment de Portland	III	1132
Iran	: 334-(1)	Ciment	III	1134
Europe centrale	: 334-(1)	Ciment et produits liants	III	1138
Europe centrale	: 334-(2)	Ciment et mélanges chaux-ciment	III	1142
Europe centrale	: 334-(3)	Ciment de Portland et cicker	III	1146
Europe centrale	: 334-(4)	Ciment et produits liants pour mortiers	III	1150
France	: 334-(1)	Ciment	I	182
France	: 334-(2)	Ciment	I	184
Inde	: 334-(1)	Ciment	I	186
Inde	: 334-(2)	Ciment	I	188
Inde	: 334-(3)	Ciment	I	190
Inde	: 334-(4)	Ciment	I	192
Inde	: 334-(5)	Ciment	I	194
Israël	: 334-(1)	Ciment	I	196
Israël	: 334-(2)	Ciment	I	198
Yugoslavie	: 334,339-(1)	Ciment et ouvrages en amiante-ciment	II	625
Yugoslavie	: 334-(2)	Ciment	II	626
Yugoslavie	: 334-(3)	Ciment	II	627
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OUVRAGES EN BÉTON, EN AMIANTE ET EN GYPSE, ETC.				
Europe centrale	: 339-(1)	Magnésite frittée (matière réfractaire et mortiers) et briques de magnésite	III	1154
Europe centrale	: 339-(2)	Ouvrages en béton	III	1158
France	: 339-(1)	Fibres de verre (fibres de silicones pour textiles, poteaux, mèches, balles, etc.)	II	630
France	: 339-(2)	Ouvrages en béton (poutrelles, formes pour parquets préfabriqués et tuyaux de béton)	II	632
Inde	: 339-(1)	Ouvrages en béton (blocs, panneaux, tuyaux, matériaux de pavage, etc.)	II	634
Inde	: 339-(2)	Ouvrages en amiante-ciment (plaques, dalles, tuyaux, etc.)	II	636
Inde	: 339-(3)	Ouvrages en amiante-ciment (plaques, dalles, tuyaux, etc.)	II	638
Israël	: 339-(1)	Ouvrages en amiante-ciment (plaques, tuyaux et formes moulées)	II	640
Israël	: 339-(2)	Ouvrages en béton (tuyaux, traverses pour voies ferrées, poteaux et briques)	II	642
Israël	: 339-(3)	Matériaux de construction préfabriqués en béton et briques	II	644
Israël	: 339-(4)	Ouvrages en gypse-ciment (briques isolantes (son et chaleur) et éléments préfabriqués en béton)	II	646
Israël	: 339-(5)	Pavage en béton	II	648
Japon	: 339-(1)	Ouvrages en béton	II	650
Japon	: 339-(2)	Ouvrages en béton	II	652
Yougoslavie	: 339-(1)	Ouvrages en béton (poteaux, traverses, dalles, blocs, etc.)	II	654
Yougoslavie	: 339-(2)	Ouvrages en béton (poteaux, traverses, tuyaux, dalles, etc.)	II	656
Yougoslavie	: 339-(3)	Ouvrages en béton (traverses, poteaux, dalles, etc.)	II	657
Yougoslavie	: 339-(4)	Ouvrages en amiante-ciment (dalles, conduites forcées, tuyaux, etc.)	II	658
				659
LAMINAGE, ÉTIRAGE ET MOULAGE DES MÉTAUX FERREUX				
Mexique	: 341-(1)	Ouvrages en métal laminé, étiré, forgé et moulé	III	1162
France	: 341-(1)	Pièces de forge et outils	I	200
France	: 341-(2)	Etirage (fil d'acier inoxydable)	I	202
Inde	: 341-(1)	Fonderie de fer et d'acier, avec ateliers de transformation et finition des ouvrages en métaux, fabriquant des broyeurs de canne à sucre et des moteurs électriques..	I	204
Inde	: 341-(2)	Tubes soudés, tubes sans soudure et bandes laminées à froid	I	206
Inde	: 341-(3)	Fonderie de fer pour machines et pièces détachées (grues à bras, palans, chariots élévateurs, chariots roulants, etc.)	I	208
Inde	: 341-(4)	Fonderie de fer et d'acier, avec ateliers d'usinage fabriquant des instruments, des pièces pour le bâtiment, des boulons et des écrous, etc.	I	210
Israël	: 341/350-(1)	Fonderie de fer, avec atelier de transformation de métaux fabriquant des articles pour plombiers et du matériel sanitaire, des bétonnières, des pompes, etc....	I	212
Japon	: 341-(1)	Moulage d'acier et fonte Méchanite	I	214
Japon	: 341-(2)	Fonderie de fer et d'acier spécialisée	I	216
Japon	: 341-(3)	Fonderie de fer (châssis de machines, de moteurs, etc.)	I	218
Japon	: 341-(4)	Fonte malléable pour automobiles	I	220
Japon	: 341-(5)	Moulage de fer et d'acier (moules à lingots, supports, presses à matricer et pompes)	I	222
Japon	: 341-(6)	Tôles, tuyaux et rails d'acier	II	660

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		LAMINAGE, ÉTIRAGE ET MOULAGE DES MÉTAUX FERREUX (suite)		
Japon	: 341-(7)	Tuyaux et tubes en acier moulé	II	662
Yougoslavie	: 341-(1)	Fonte grise et trempée, machines-outils, accessoires fourneaux de cuisine, etc.	I	224
		LAMINAGE, ÉTIRAGE ET MOULAGE DES MÉTAUX NON FERREUX		
Mexique	: 342-(1)	Production de plomb antimonial	III	1164
Europe centrale	: 342-(1)	Feuilles d'aluminium	III	1166
France	: 342-(1)	Articles en aluminium laminé et étiré (tôles fines et fortes, rouleaux, feuilles, billettes, etc.)	I	226
France	: 342-(2)	Tubes de cuivre et de laiton	I	228
France	: 342-(3)	Rubans de cuivre et de laiton	I	230
France	: 342-(4)	Tubes de cuivre et de laiton	I	232
France	: 342-(5)	Pièces moulées de métaux non ferreux	II	664
France	: 342-(6)	Pièces moulées en cuivre-aluminium	II	666
Inde	: 342-(1)	Pièces laminées en cuivre, alliages de cuivre, aluminium et alliages d'aluminium	I	234
Inde	: 342-(2)	Lingots d'aluminium	I	236
Inde	: 342-(3)	Tôles, bandes, disques, cercles et fils d'aluminium et de cuivre	II	668
Israël	: 342-(1)	Laminage de l'aluminium (feuilles, tôles, bandes et disques)	I	238
Israël	: 342/350-(2)	Tuyaux et profilés d'aluminium; fenêtres et portes en aluminium ..	I	240
Japon	: 342-(1)	Barres, baguettes, fils, tuyaux et tubes de cuivre et de laiton ..	I	242
Yougoslavie	: 342-(1)	Laminage et étirage du zinc et du laiton (feuilles, bandes, barres, fils, tubes, etc.)	I	244
Yougoslavie	: 342-(2)	Etirage et moulage du zinc, du cuivre et d'autres métaux non ferreux	I	245
Yougoslavie	: 342-(3)	Laminage, étirage et moulage sous pression de l'aluminium et de ses alliages (plaques, bandes, barres, fils, tubes, sections, etc.)	I	246
Yougoslavie	: 342-(4)	Pièces en métaux non ferreux (fils isolés, pièces en cuivre et alliages de cuivre, câbles d'acier et d'aluminium, etc.)	II	670
		FABRICATION D'OUVRAGES EN MÉTAUX, À L'EXCLUSION DES MACHINES ET DU MATERIEL DE TRANSPORT		
Afrique de l'Est	: 350-(1)	Pointes	III	1170
Afrique de l'Est	: 350-(2)	Fabrication d'articles émaillés (appareils ménagers)	III	1172
El Salvador	: 350-(1)	Fils de cuivre et d'aluminium	III	1174
Mexique	: 350-(1)	Cornières, boulons, écrous en acier, fil machine, réservoirs, étais, etc.....	III	1176
Mexique	: 350-(2)	Câbles, fils et articles en fils métalliques	III	1178
Mexique	: 350-(3)	Boîtes en fer-blanc	III	1180
Mexique	: 350-(4)	Grenaille d'acier moulée (fabriquée avec du fil d'acier) ..	III	1182
Europe centrale	: 350-(1)	Boîtes, boîtes avec couvercles à pression et autres récipients à jeter après usage	III	1184
Europe centrale	: 350-(2)	Fils de cuivre émaillé	III	1188
Europe centrale	: 350/360-(3)	Constructions en acier de types divers, machines à vibrer par résonance, convoyeurs à tube, convoyeurs à courroie et convoyeurs à rouleaux	III	1192
Europe centrale	: 350/360-(4)	Chaudières, ponts en acier, superstructures en acier pour installations hydrauliques, machineries pour scènes de théâtre, appareillages, réservoirs, vannes, conduites forcées, autoclaves, grues, transporteurs par câbles, convoyeurs inclinés, pièces moulées en acier et en fonte grise, etc.....	III	1196
Europe centrale	: 350/360-(5)	Equipements pour l'irrigation et l'agriculture, profilés en acier	III	1200
France	: 350-(1)	Articles matricés, outils et appareils de signalisation ..	I	248
France	: 350-(2)	Fils et câbles d'acier et d'aluminium (fabriqués à partir de fil machine)	I	250

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France	: 350-(3)	Pièces métalliques pour automobiles et articles de ménage	I	252
France	: 350-(4)	Radiateurs de types divers	I	254
France	: 350-(5)	Accessoires pour portes et fenêtres	I	256
France	: 350-(6)	Fils (galvanisés, gainés de cuivre, trempés, revêtus, etc.) et articles en fils (grillage pour clôture, treillis soudés, etc.)	I	258
France	: 350-(7)	Chaudières, appareillage électronique, accessoires et matériel de photographie	II	672
France	: 350-(8)	Cadres métalliques, serrurerie, menuiserie, ustensiles en zinc et en cuivre, etc.	II	674
France	: 350-(9)	Pièces découpées et matricées pour automobiles et tracteurs	II	676
France	: 350-(10)	Boulons, écrous, vis et rondelles	II	678
France	: 350-(11)	Baignoires et réservoirs de fonte	II	680
France	: 350-(12)	Meubles de bureau et fûts métalliques	II	682
France	: 350-(13)	Pièces découpées et matricées et outils métalliques	II	684
France	: 350-(14)	Arrosoirs, théières, baquets et autres articles métalliques pour la ferme et le ménage	II	686
Inde	: 350-(1)	Vis, rivets, gonds et autres articles de quincaillerie du bâtiment	II	686
Inde	: 350-(2)	Boîtes et récipients en étain	I	260
Inde	: 350-(3)	Construction, réservoirs d'emmagasinage, tuyaux, etc. (et services de pose)	I	262
Inde	: 350-(4)	Constructions (et services de pose)	I	264
Inde	: 350-(5)	Ustensiles de ménage en métal (aluminium)	I	266
Inde	: 350-(6)	Récipients, couvercles et autres objets métalliques	I	268
Inde	: 350-(7)	Récipients, bennes filetées et autres articles métalliques	II	688
Inde	: 350-(8)	Boulons, écrous et vis	II	690
Inde	: 350-(9)	Boulons, écrous, vis, rivets, clous, etc.	II	692
Inde	: 350-(10)	Articles métalliques à usage domestique (ustensiles, cercles, rivets, bandes, etc.)	II	694
Israël	: 350-(1)	Accessoires de tuyauterie et autres articles en fonte de fer et d'acier	II	696
Israël	: 350-(2)	Fils, clous et rivets	I	270
Israël	: 350-(3)	Fils, grillage et autres articles en fils métalliques	I	272
Israël	: 350-(4)	Bâts de fenêtres et de portes en profilés d'aluminium	I	274
Israël	: 350-(5)	Tuyaux d'irrigation et accessoires, profilés d'aluminium et bâts de portes et fenêtres en profilés d'aluminium	I	276
Israël	: 350-(6)	Accumulateurs de chaleur solaire et meubles de rangement	I	278
Japon	: 350-(1)	Tambours d'acier	II	698
Japon	: 350-(2)	Vide-ordures, écrans, tuyaux souples, gonds et chaises (en acier surtout, mais aussi partiellement en matière plastique)	I	280
Japon	: 350-(3)	Valves et bouches d'incendie	I	282
Japon	: 350-(4)	Boîtes et couvercles et récipients divers (en étain et en aluminium)	I	284
Japon	: 350-(5)	Seaux, baquets, cuvettes, etc. (en métal et en matière plastique)	I	286
Japon	: 350-(6)	Constructions en acier	I	288
Japon	: 350-(7)	Châssis en acier et en aluminium	I	290
Japon	: 350-(8)	Persiennes lourdes et légères	I	292
Japon	: 350-(9)	Câbles métalliques, torons et fils d'acier	I	294
Japon	: 350-(10)	Fils d'acier	II	700
Japon	: 350-(11)	Ressorts à boudin et ressorts plats	II	702
Japon	: 350-(12)	Articles en fer-blanc (boîtes, etc.)	II	704
Japon	: 350-(13)	Vis, boulons et écrous pour machines	II	706
Japon	: 350-(14)	Boulons et écrous	II	708

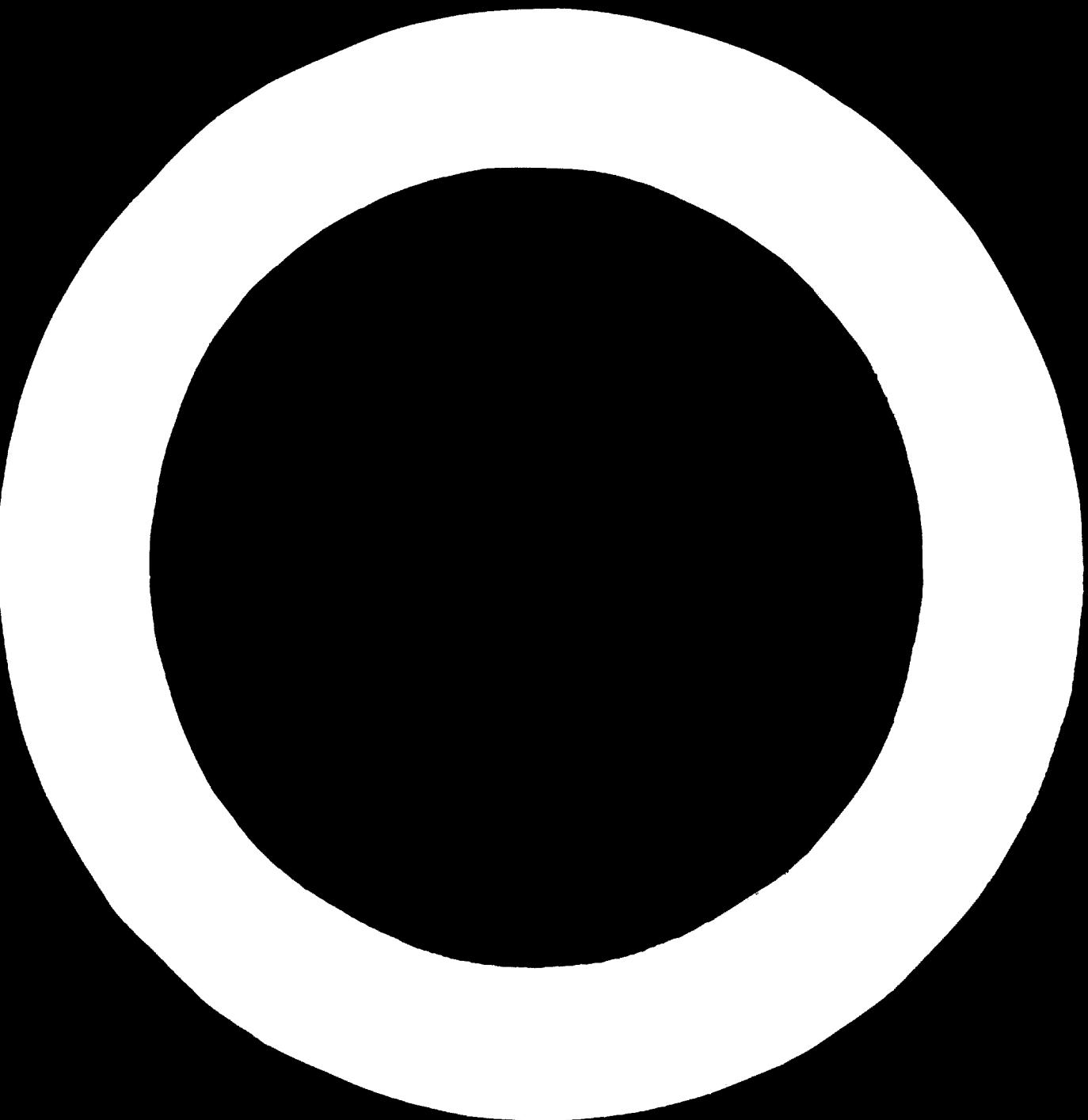
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Japon	: 350-(15)	Boulons, écrous, vis, rivets, etc.	II	710
Yougoslavie	: 350-(1)	Récipients et barils métalliques	I	298
Yougoslavie	: 350-(2)	Articles émaillés, récipients, radiateurs, chaudières, etc.	I	299
Yougoslavie	: 350-(3)	Outils agricoles à main (forgés à la main)	I	300
Yougoslavie	: 350-(4)	Outils agricoles à main (roulés et forgés)	I	301
Yougoslavie	: 350-(5)	Constructions en acier, réservoirs, grues industrielles, matériel de réfrigération, etc.	I	302
Yougoslavie	: 350-(6)	Chaines d'acier (et pièces pour machines agricoles) ...	II	712
Yougoslavie	: 350-(7)	Outils agricoles à main (roulés et forgés)	II	713
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Yougoslavie	: 350-(9)	Radiateurs et chaudières	II	715
Yougoslavie	: 350-(10)	Hélices	II	716
Yougoslavie	: 350-(11)	Matériel et accessoires pour la cuisine et le chauffage et pour d'autres usages domestiques	II	717
Yougoslavie	: 350-(12)	Meubles métalliques	II	718
Yougoslavie	: 350-(13)	Articles spiralés, matériel scolaire et autres articles en métal ou en matière plastique	II	719
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CONSTRUCTION DE MACHINES, À L'EXCLUSION DE MACHINES ÉLECTRIQUES				
Iran	: 360-(1)	Réfrigérateurs à usage ménager, refroidisseurs d'eau, appareils de chauffage et de refroidissement	III	1204
Iran	: 360-(2)	Réfrigérateurs, appareils de refroidissement et de chauffage, etc.	III	1208
Mexique	: 360-(1)	Grues et presses à estamper	III	1212
Mexique	: 360-(2)	Tracteurs, semoirs, cultivateurs, herses et autres instruments agricoles	III	1214
Mexique	: 360-(3)	Tracteurs agricoles	III	1216
Mexique	: 360-(4)	Machines agricoles, camions et tracteurs	III	1218
Europe centrale	: 360-(1)	Pompes, moteurs, dispositifs de commutation	III	1220
Europe centrale	: 350-(2)	Hacheuses-souffleuses, moissonneuses-batteuses, arracheuses de pommes de terre, matériel pour le maïs, etc.	III	1224
Europe centrale	: 360-(3)	Machines et équipement pour le traitement des matières plastiques	III	1228
Europe centrale	: 360-(4)	Machines à forger, machines à meuler à vilebrequin et machines à forer	III	1232
Europe centrale	: 360-(5)	Machines-outils universelles, machines à travailler le bois, mandrins de tours, dispositifs pour essais de dureté	III	1236
Europe centrale	: 360-(6)	Tours à revolver et à mandrin	III	1240
Europe centrale	: 360-(7)	Sièges de billes, cages à billes, roulements à billes courants, etc.	III	1244
France	: 360-(1)	Roulements à billes	I	304
France	: 360-(2)	Tours avec accessoires et pièces de rechange	I	306
France	: 360-(3)	Fraiseuses	II	724
France	: 360/381-(4)	Moteurs diesel (pour la marine et pour l'industrie) ...	II	726
France	: 360-(5)	Pompes et accessoires pour pompes	II	728
France	: 360-(6)	Pompes et compresseurs centrifuges	II	730
France	: 360-(7)	Matériel de contrôle et de réglage des turbines	II	732
France	: 360-(8)	Presses	II	734
Inde	: 360-(1)	Pompes centrifuges	I	308
Inde	: 360-(2)	Centrifugeuses, cristallisateurs, treuils à manivelle, etc.	I	310
Inde	: 360-(3)	Grues, treuils, mélangeurs de sable et autre matériel pour la construction	I	312
Inde	: 360-(4)	Grues, bétonnières, tuyaux, etc.	I	314

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Inde	: 360-(6)	Grues, chariots, chariots élévateurs et autre matériel de manutention	I	318
Inde	: 360/341-(7)	Moteurs diesel, métiers mécaniques, pompes agricoles et pièces moulées pour machines-outils	II	736
Inde	: 360-(8)	Remorques agricoles, herses, charrues, etc.	II	738
Inde	: 360-(9)	Tours, raboteuses, scies à ruban et articles laminés ...	II	740
Inde	: 360-(10)	Machines à coudre (complètes et pièces détachées)....	II	742
Inde	: 360-(11)	Machines à cisailier et presses mécaniques	II	744
Inde	: 360-(12)	Batteuses, vanneuses, cultivateurs et norias	II	746
Inde	: 360-(13)	Matrices, gabarits et accessoires	II	748
Inde	: 360-(14)	Tours	II	750
Inde	: 360-(15)	Constructions métalliques, réservoirs d'emmagasinage, treuils électriques, scies à ruban, machines pour raffineries de sucre et machines pour papeterie	II	752
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Israël	: 360-(1)	Pompes hydrauliques et cylindres	I	320
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Yugoslavie	: 360-(7)	Moteurs diesel et tracteurs	II	765
Yugoslavie	: 360-(8)	Machines à coudre	II	766
Yugoslavie	: 360-(9)	Ascenseurs, escaliers et autres ouvrages métalliques ...	II	767
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<i>Pays</i>	<i>Classification</i>	<i>Principaux produits</i>	<i>Numéro du volume</i>	<i>Page</i>
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Europe centrale	: 370-(5)	Câbles sous matière plastique, lignes sous matière plastique, fils et câbles de couplage	III	1280
Europe centrale	: 370-(6)	Fils nus et isolés et tiges en métaux non ferreux	III	1284
Europe centrale	: 370-(7)	Fils de cuivre laminés (bobines)	III	1288
Europe méridionale	: 370-(1)	Dispositifs de commande électrique et pièces détachées pour l'industrie des appareils ménagers	III	1292
France	: 370-(1)	Moteurs électriques, à usage industriel ou non	II	768
France	: 370-(2)	Pince électriques, autres appareils, machines et pièces détachées	II	770
Inde	: 370-(1)	Pupitres de commande, tableaux de distribution, fusibles à cartouches et moteurs à usage industriel	II	772
Inde	: 370-(2)	Transformateurs, dispositifs de commutation, condensateurs, moteurs, générateurs et autre matériel électrique lourd	II	774
Inde	: 370-(3)	Moteurs électriques	II	776
Inde	: 370-(4)	Câbles électriques sous papier ou chlorure de polyvinyle	II	778
Inde	: 370-(5)	Câbles électriques sous papier	II	780
Inde	: 370-(6)	Câbles électriques sous papier	II	782
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Inde	: 370-(8)	Câbles et flexibles électriques sous caoutchouc ou chlorure de polyvinyle	II	786
Inde	: 370-(9)	Ampoules électriques	II	788
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Yougoslavie	: 370-(1)	Moteurs électriques	II	798
Yougoslavie	: 370-(2)	Moteurs électriques, générateurs, transformateurs, pupitres de commande et chaudières	II	799
Yougoslavie	: 370-(3)	Ampoules électriques, petites batteries et moteurs	II	800
Yougoslavie	: 370-(4)	Ampoules électriques et tubes fluorescents	II	801
Yougoslavie	: 370-(5)	Câbles et fils électriques	II	802
Yougoslavie	: 370-(6)	Fusibles, commutateurs, douilles, fiches de connection, lampes, matériel isolant et pièces détachées pour appareils ménagers	II	803
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Yougoslavie	: 370-(8)	Chaudières et fours électriques à usage domestique ...	II	805

CONSTRUCTION ET MONTAGE D'AUTOBUS, CAMIONS ET REMORQUES POUR CAMIONS

Iran	: 383-(1)	Montage d'autobus, de minibus et d'automobiles	III	1296
Mexique	: 383-(1)	Automobiles et camions (petits et gros poids lourds) ..	III	1300
Europe centrale	: 383-(1)	Prototypes de moteurs à combustion interne, dispositifs électroniques de mesure, moteurs pour la recherche et les essais, bancs d'essais, conception d'usines, etc.	III	1302
France	: 383-(1)	Montage d'autobus et de véhicules à moteur	I	338
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Israël	: 383-(1)	Carrosseries d'autobus et cabines de conduite	I	342
Israël	: 383-(2)	Carrosseries d'autobus et cabines de conduite	I	344
Israël	: 383-(3)	Montage de camions et d'autobus	I	346
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Europe centrale	: 385-(1)	Production de motocycles et de cycles	III	1306
Inde	: 385-(1)	Bicyclettes	III	1308
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Inde	: 385-(4)	Motocycles et scooters (entiers et pièces détachées)	I	356
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Yougoslavie	: 385-(2)	Bicyclettes et scooters	I	360
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			II	816
El Salvador	: 399-(1)	GROUPES D'INDUSTRIES NON CLASSEES AILLEURS		
Inde	: 389-(1)	Napperons en matière plastique	III	1312
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Yougoslavie	: 399-(1)	Pendules et hydromètres	II	817
		Crayons, plumes et autres fournitures de bureau	II	818

СОВДНЫЙ ПЕРЕЧЕНЬ ПРЕДПРИЯТИЙ
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УБОЙ, ОБРАБОТКА И КОНСЕРВИРОВАНИЕ МЯСА				
Восточная				
Африка : 201/203-(1)		Убой и производство мясных консервов из говядины	III	820
Сальвадор : 201-(1)		Колбасные изделия и ветчина	III	822
Центральная				
Европа : 201-(1)		Убой крупного рогатого скота, свиней, телят и овец	III	824
ПРОИЗВОДСТВО МОЛОЧНЫХ ПРОДУКТОВ				
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Европа : 202-(1)		сухого обезжиренного молока и шоколада	III	830
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Европа : 202-(2)		Мягкий сыр и высокожирные сливки	III	834
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		и т. д.	I	1
Франция : 202-(3)		Пастеризованное молоко, масло, сливки и т. д.	I	2
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Индия : 202-(2)		Пастеризованное молоко, масло, топленое масло, сливки		
		и т. д.	I	2
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Израиль : 202-(2)		Творог, сыр, сметана, масло, мороженое и т. д.	I	2
Израиль : 202-(3)		Мороженое	I	3
Югославия : 202-(1)		Сухое, сгущенное и стерилизованное молоко, яичный порошок и т. д.	I	3
Югославия : 202-(2)		Сухое молоко и яичный порошок, сыр, масло и т. д.	I	3
Югославия : 202-(3)		Йогурт, масло, сыр, мороженое и т. д.	I	3
Югославия : 202-(4)		Масло, сыр и другие молочные продукты	II	36
БАНОЧНОЕ КОНСЕРВИРОВАНИЕ ПИЩЕВЫХ ПРОДУКТОВ				
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Центральная				
Европа : 203-(1)		Баночное консервирование фруктов и овощей	III	846
Центральная				
Европа : 203-(2)		Плодовоягодные и овощные консервы	III	850
Центральная				
Европа : 203/201-(3)		Мясные, плодовоягодные и овощные консервы; джем, плодовоягодные соки, мороженые овощи и мучнистые продукты		
Индия : 203-(1)		Консервирование фруктов и овощей	III	854
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Япония : 203/4-(2)		Консервирование рыбы и фруктов	I	42
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		Консервирование рыбы и производство сухой рыбной муки	II	368

<i>Страна</i>	<i>Классификация</i>	<i>Основные продукты</i>	<i>Том №</i>	<i>Страница</i>
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Израиль : 205-(1)	Пшеничная мука (и отруби)	I	52
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Израиль : 205-(3)	Пшеничная мука (и отруби)	I	56
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Югославия : 205-(2)	Пшеничная мука (и отруби)	I	63
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Югославия : 207-(2)	Свеклосахарные заводы	I	79
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Югославия : 207-(5)	Свеклосахарные заводы	II	379
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<i>Страна</i>	<i>Классификация</i>	<i>Основные продукты</i>	<i>Том №</i>	<i>Страница</i>
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<i>Страна</i>	<i>Классификация</i>	<i>Основные продукты</i>	<i>Том №</i>	<i>Страница</i>
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<i>Страна</i>	<i>Классификация</i>	<i>Основные продукты</i>	<i>Том №</i>	<i>Страница</i>
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PREFACE

This is the third issue of the *Profiles* series. The preparation of the material for this Volume, as well as for Volumes I and II published earlier, received extra-budgetary financial support of the Government of Sweden. UNIDO wishes to express once again its sincere appreciation of this valuable support.

The continued work for this series was made possible also with the help of those national development institutions and individual enterprise authorities who were receptive to the objectives of the series and willingly contributed the material needed for the compilation of the *Profiles*.

UNIDO wishes to express its thanks particularly to the Federation of Industrialists and the Federal Chamber of Commerce of Austria for the hospitable climate they created in support of the *Profiles*' operations in the Central European regions. Our special thanks go also to such agencies as the Salvadorian Institute of Industrial Development, El Salvador (INSAFI), the Industrial Studies and Development Centre at Dar es Salaam, United Republic of Tanzania, and the office of ECLA (the Economic Commission for Latin America) in Mexico among others, whose active co-operation was crucial in extending the coverage of this project to the respective regions.

AVANT-PROPOS

La présente publication est la troisième de la série des *Profils*. Comme pour les volumes I et II, ses auteurs ont bénéficié, pour le rassemblement de la documentation, d'une aide financière hors budget du Gouvernement suédois, auquel l'ONUDI tient à exprimer de nouveau sa vive gratitude.

Si la publication de cette série a pu être poursuivie, c'est aussi parce que ses auteurs ont reçu l'aide des instituts nationaux de développement et des entreprises qui, favorables au but recherché, ont eu l'obligeance de leur communiquer la documentation nécessaire.

L'ONUDI tient à remercier tout particulièrement ici la Fédération des industriels et la Chambre de commerce fédérale d'Autriche de la cordiale hospitalité dont elles ont fait preuve et qui a grandement facilité les travaux nécessaires à l'établissement des *Profils* dans les régions d'Europe centrale. Elle adresse aussi ses remerciements à l'Institut du développement industriel d'El Salvador (INSAFI), au Centre d'études industrielles et du développement de Dar es-Salaam (République-Unie de Tanzanie), au bureau de la CEPAL (Commission économique pour l'Amérique latine), à Mexico, et à divers autres organismes dont la coopération active a été indispensable pour étendre ce projet aux différentes régions.

ПРЕДИСЛОВИЕ

Этот том является третьим выпуском издания „Профили“. Подготовка материалов для настоящего тома так же, как и для ранее опубликованных томов I и II, была проведена за счет внебюджетной финансовой помощи, предоставленной правительством Швеции. ЮНИДО вновь выражает свою искреннюю признательность за эту ценную помощь.

Продолжение работы по изданию „Профилей“ стало возможным также благодаря помощи тех национальных учреждений, занимающихся вопросами развития, и тех руководителей отдельных предприятий, которые сочувственно отнеслись к целям настоящего издания и охотно предоставили необходимый материал для составления „Профилей“.

ЮНИДО выражает свою благодарность, в частности Федерации промышленников и Федеральной торговой палате Австрии, за созданную ими благоприятную атмосферу поддержки деятельности по „Профиям“ в различных районах Центральной Европы. ЮНИДО также выражает особую благодарность различным учреждениям, в том числе Сальвадорскому институту промышленного развития (INSAFI), Центру промышленных исследований и развития в Дар-эс-Саламе (Объединенная Республика Танзания) и бюро ЭКЛА (Экономическая комиссия для Латинской Америки) в Мексике. Их активная помощь сыграла решающую роль в подготовке материалов „Профилей“ о соответствующих районах.

PREFACIO

La presente publicación es el tercer volumen de la serie *Perfiles*. La documentación para este volumen, así como para los volúmenes I y II publicados anteriormente, ha podido prepararse gracias al apoyo financiero extrapresupuestario del Gobierno de Suecia. La ONUDI desea reiterar su sincero agradecimiento por esa valiosa asistencia.

Asimismo, el trabajo para la elaboración de esta serie ha sido posible gracias a la ayuda de las instituciones nacionales de desarrollo y del personal directivo de las empresas que han visto con simpatía los objetivos que persigue la serie y han facilitado gustosamente el material necesario para la recopilación de los *Perfiles*.

La ONUDI desea dar las gracias en particular a la Federación de Industriales y a la Cámara Federal de Comercio de Austria por el clima acogedor que han creado para la preparación de los *Perfiles* en las regiones de Europa central. Expresamos también nuestro especial agradecimiento a organismos tales como el Instituto Salvadoreño de Fomento Industrial, El Salvador (INSAFI), el Centro de Estudios Industriales y de Desarrollo, de Dar es-Salam, República Unida de Tanzania, y la oficina de la CEPAL (Comisión Económica para América Latina) en México, entre otros, cuya activa cooperación ha sido decisiva para extender este proyecto a las regiones respectivas.

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ПРОИЗВОДСТВО И СБОРКА АВТОБУСОВ, ГРУЗОВЫХ АВТОМОБИЛЕЙ И ПРИЦЕПОВ

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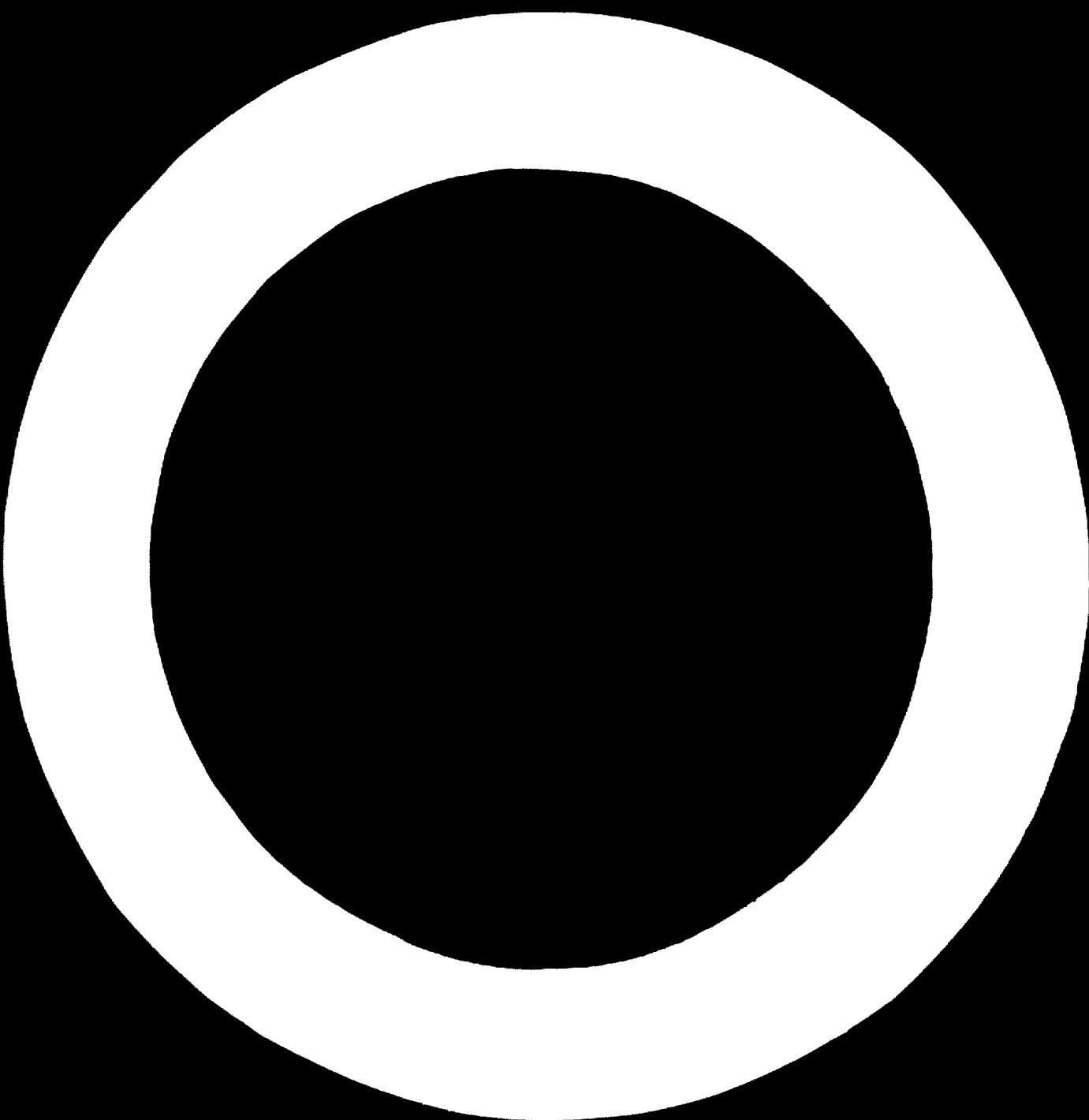
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Irán	: 360-(1)	Frigoríficos domésticos, enfriadores de agua y diversos aparatos calentadores y refrigeradores	III		1204
México	: 360-(2)	Frigoríficos, enfriadores, calentadores, etc.	III		1208
México	: 360-(1)	Grúas y prensas de estampado	III		1212
México	: 360-(2)	Tractores, sembradoras, cultivadoras, gradas y otros utensilios agrícolas	III		1214
México	: 360-(3)	Tractores agrícolas	III		1216
Francia	: 360-(4)	Maquinaria agrícola, camiones y tractores	III		1218
Francia	: 360-(1)	Cojinetes de bolas	I		304
Francia	: 360-(2)	Tornos, con accesorios y piezas de repuesto	I		306
Francia	: 360-(3)	Máquinas trituradoras	II		724
Francia	: 360/381-(4)	Motores diesel (para barcos y para industria)	II		726
Francia	: 360-(5)	Bombas, equipo y accesorios conexos	II		728
Francia	: 360-(6)	Bombas centrifugadoras y compresores	II		730
Francia	: 360-(7)	Equipo de control y regulación para turbinas	II		732
India	: 360-(8)	Prensas	II		734
India	: 360-(1)	Bombas centrifugadoras	I		308
India	: 360-(2)	Máquinas centrifugadoras, cristalizadoras, tornos deizar, etc.	I		310
India	: 360-(3)	Grúas, tornos, mezcladoras de arena y otro equipo de construcción	I		312
India	: 360-(4)	Grúas, hormigoneras, cañerías, etc.	I		314

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CONSTRUCCIÓN DE MAQUINARIA, EXCEPTUANDO LA MAQUINARIA ELÉCTRICA (cont.)				
India	: 360-(5)	Máquinas cultivadoras, espolvoreadoras, trilladoras y otras máquinas y utensilios agrícolas	I	316
India	: 360-(6)	Grúas, vagonetas, camiones elevadores, y demás equipo para manejar el material	I	318
India	: 360/341-(7)	Motores diesel, telares mecánicos, bombas agrícolas y colados para máquinas-herramientas	II	736
India	: 360-(8)	Remolques agrícolas, gradas, arados, etc.	II	738
India	: 360-(9)	Tornos, cepilladoras, sierras de cinta y productos laminados	II	740
India	: 360-(10)	Máquinas de coser (y piezas para máquinas de coser)	II	742
India	: 360-(11)	Esquiladoras mecánicas y prensas mecánicas	II	744
India	: 360-(12)	Trilladoras, aventadoras, cultivadoras y norias	II	746
India	: 360-(13)	Moldes, matrices y accesorios	II	748
India	: 360-(14)	Tornos	II	750
India	: 360-(15)	Estructuras metálicas, envases de almacenamiento, elevadoras eléctricas, sierras de cinta, maquinaria para la obtención de azúcar y para la fabricación de papel	II	752
India	: 360-(16)	Bombas y conmutadores	II	754
Israel	: 360-(1)	Bombas y prensas hidráulicas	I	320
Israel	: 360-(2)	Empacadoras de heno, sembradoras de grano, plantadoras, niveladoras, etc.	I	322
Israel	: 360-(3)	Sembradoras, cultivadoras y recogedoras	I	324
Israel	: 360-(4)	Bombas	II	756
Japón	: 360-(1)	Cojinetes de bolas, piezas de máquinas, bombas y productos pulimentalúrgicos	I	326
Japón	: 360-(2)	Arados con motor, pulverizadoras, bombas, desbrozadoras, etc.	I	328
Japón	: 360-(3)	Bombas de diversas clases	I	330
Japón	: 360-(4)	Utensilios agrícolas (arados-tractor, cargadoras mecánicas, gradas, etc.)	II	758
Japón	: 360-(5)	Utensilios agrícolas (aporcadores, escardadores rotores y rastrillos, etc.)	II	760
Japón	: 360-(6)	Segadoras de forraje	II	762
Yugoslavia	: 360-(1)	Bombas y máquinas agrícolas	I	332
Yugoslavia	: 360-(2)	Máquinas combinadas, camionetas, máquinas trituradoras y equipo y piezas agrícolas	I	333
Yugoslavia	: 360-(3)	Tornos y equipo de perforación	I	334
Yugoslavia	: 360-(4)	Compresores, herramientas neumáticas, faros de automóviles, y otras piezas de repuesto para automóviles	I	335
Yugoslavia	: 360-(5)	Cojinetes de bolas	I	336
Yugoslavia	: 360-(6)	Turbinas hidráulicas, bombas de succión, motores diesel y otras máquinas y aparatos industriales	II	764
Yugoslavia	: 360-(7)	Motores diesel y tractores	II	765
Yugoslavia	: 360-(8)	Máquinas de coser	II	766
Yugoslavia	: 360-(9)	Ascensores, escaleras y otras estructuras metálicas ...	II	767
FABRICACIÓN DE MÁQUINAS, APARATOS, UTENSILIOS Y MATERIAL ELÉCTRICO				
Europa central	: 370-(1)	Pilas estáticas pequeñas para centrales telefónicas y baterías de arranque para vehículos de motor	III	1264
Europa central	: 370-(2)	Cables y líneas de transmisión de energía, cables y líneas de telecomunicación, conexiones de cables	III	1268
Europa central	: 370-(3)	Frigoríficos, congeladores, máquinas de lavar automáticas, motores eléctricos, etc.	III	1272
Europa central	: 370-(4)	Bombillas, lámparas fluorescentes, lámparas de radio, alambres de molibdeno, etc.	III	1276
Europa central	: 370-(5)	Cables revestidos de plástico, líneas revestidas de plástico, alambres y filamentos de conexión	III	1280
Europa central	: 370-(6)	Alambres y varillas de metales no ferrosos desnudos y con aislante	III	1284

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FABRICACIÓN DE MÁQUINAS, APARATOS, UTENSILIOS Y MATERIAL ELÉCTRICO (cont.)				
Europa central : 370-(7)		Alambre de cobre en rollo (bobinas)	III	1288
Europa meridional: 370-(1)		Instrumentos y piezas de control eléctrico para la industria de utensilios para el hogar	III	1292
Irán : 370-(1)		Cables eléctricos con aislantes de plástico	III	1248
Irán : 370-(2)		Aparatos de televisión y radio y gramófonos	III	1252
Irán : 370-(3)		Aparatos de televisión	III	1256
México : 370-(1)		Lámparas eléctricas	III	1260
México : 370-(2)		Alambres no ferrosos, alambres y conductores	III	1262
Francia : 370-(1)		Motores eléctricos para usos industriales y no industriales	II	768
Francia : 370-(2)		Tenazas eléctricas, y otros aparatos, máquinas y piezas eléctricas	II	770
India : 370-(1)		Cuadros de mando y de distribución eléctricos, cortacircuitos encapsulados y motores industriales	II	772
India : 370-(2)		Transformadores, conmutadores, condensadores, motores, generadores de corriente y otra maquinaria eléctrica pesada	II	774
India : 370-(3)		Motores eléctricos	II	776
India : 370-(4)		Cables eléctricos con aislante de cloruro de polivinilo y papel	II	778
India : 370-(5)		Cables eléctricos con aislante de papel	II	780
India : 370-(6)		Cables eléctricos con aislante de papel	II	782
India : 370-(7)		Cables y flexibles eléctricos con aislante de goma y cloruro de polivinilo	II	784
India : 370-(8)		Cables y flexibles eléctricos con aislante de goma y cloruro de polivinilo	II	786
India : 370-(9)		Bombillas eléctricas	II	788
Israel : 370-(1)		Motores eléctricos	II	790
Israel : 370-(2)		Bombillas eléctricas	II	792
Israel : 370-(3)		Bombillas eléctricas	II	794
Japón : 370-(1)		Cables y alambres eléctricos con aislante	II	796
Yugoslavia : 370-(1)		Motores eléctricos	II	798
Yugoslavia : 370-(2)		Motores, generadores de corriente, transformadores, cuadros de mando y hornos eléctricos	II	799
Yugoslavia : 370-(3)		Bombillas eléctricas, pilas pequeñas y motores eléctricos	II	800
Yugoslavia : 370-(4)		Bombillas y tubos fluorescentes eléctricos	II	801
Yugoslavia : 370-(5)		Alambres y cables eléctricos	II	802
Yugoslavia : 370-(6)		Cortacircuitos eléctricos, conmutadores, empalmes, tomas de corriente, lámparas y otro material eléctrico aislante y piezas para aparatos de uso doméstico	II	803
Yugoslavia : 370-(7)		Cocinas, calentadores, refrigeradoras, máquinas de lavar, etc., eléctricas	II	804
Yugoslavia : 370-(8)		Calderas y hornos eléctricos para el hogar	II	805
FABRICACIÓN Y MONTAJE DE AUTOBUSES, CAMIONES Y REMOLQUES				
Europa central : 383-(1)		Prototipos de motores de combustión interna, aparatos electrónicos de medida, motores de investigación y ensayo, bancos de ensayo, diseños de instalaciones de fábricas, etc.	III	1302
Irán : 383-(1)		Montaje de autobuses, microbuses y coches de viajeros	III	1296
México : 383-(1)		Automóviles y camiones (de pequeño y gran tonelaje)	III	1300
Francia : 383-(1)		Montaje de autobuses y autocares	I	338
India : 383-(1)		Montaje de camiones, furgonetas, autobuses y automóviles, y fabricación de chasis y de algunas piezas de repuesto	I	340
Israel : 383-(1)		Carrocerías de auto y cabinas de conductor	I	342
Israel : 383-(2)		Carrocerías de auto y cabinas de conductor	I	344
Israel : 383-(3)		Montaje de camiones y de autobuses	I	346
Japón : 383-(1)		Carrocerías de autobús	I	348

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Yugoslavia	FABRICACIÓN Y MONTAJE DE AUTOBUSES, CAMIONES Y REMOLQUES (cont.)			
	: 383-(1)	Montaje de camionetas y autobuses, y fabricación de motores y carrocería	I	350
Europa central	FABRICACIÓN DE MOTOCICLETAS Y BICICLETAS			
México	: 385-(1)	Bicicletas	III	1308
India	: 385-(1)	Fabricación de motocicletas y bicicletas	III	1306
India	: 385-(2)	Bicicletas	I	352
India	: 385-(3)	Bicicletas	I	354
India	: 385-(4)	Motocicletas y motonetas (completas y piezas de repuesto)	II	806
India	: 385-(5)	Bicicletas	II	808
India	: 385-(6)	Bicicletas	II	810
Japón	: 385-(1)	Bicicletas	I	358
Japón	: 385-(2)	Bicicletas	II	812
Japón	: 385-(3)	Bicicletas	II	814
Yugoslavia	: 385-(1)	Bicicletas	I	360
Yugoslavia	: 385-(2)	Bicicletas y motonetas	I	361
Yugoslavia	: 385-(3)	Motonetas	II	816
	GRUPOS DE INDUSTRIAS NO CLASIFICADAS EN OTRA PARTE			
El Salvador	: 399-(1)	Vajillas de plástico	III	1312
India	: 389-(1)	Vagones y productos de acero semiacabados fabricados en talleres de laminación y fundición	I	362
Yugoslavia	: 393-(1)	Relojes y contadores de agua	II	817
Yugoslavia	: 399-(1)	Lápices, plumas y otros materiales de oficina	II	818



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MAJOR PRODUCTS: Slaughtering and beef canning. By-products are fat, soups, hides, etc. In 1966 total value of production amounted to approximately US\$7.7 million on 1-shift operation (by-products: 3 shifts).

REPORTING UNIT: A one-establishment enterprise under mixed private and governmental ownership. Foreign participation: 49%; founded in 1950.

I. FIXED CAPITAL ASSETS (in 000 US \$) Year of comple. (End of 1966)				Orig. purchase value	Replace-ment value	II. INVENTORIES AND WORKING CAPITAL (in 000 US \$) Actual value					
1. Primary process equipment total: - Process equipment - Hand tools and apparatuses - Cost of installation				1,301	...	1. Inventories total: - Production materials - Other input materials - Work-in-process - Finished products					
2. Primary industrial building total: (total floor space: ... m ²) 1,315				1,301	...	2. Liquid assets total: - Cash (hand/bank) 1,018 - Market, sec. & bonds - Short-term investment - Prepaid expenses - Accounts receivable 93					
3. Auxiliary facilities total: - Water, steam, electricity, cooling and storing - Transportation facilities (total load: ... t) - Administrative facilities - Laboratory facilities				106	...	3. Desired working capital No. of months total: - Production materials (net) 1,820 - Other input materials for sterilisation - Work-in-process - Finished products - Wages and salaries					
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excl. land): ... 2,722 ...						III. MANNING TABLE (1966 average)					
				Year of inst.	Orig. purchase value	Replace-ment value	Total	1st shift	2nd shift	3rd shift	
							1,062	992	152	152	
							786	283	435	35	
							Killing and trimming	215	36	180	-
							Canning	195	170	25	-
							Steriliser	165	15	150	-
							By-products	210	60	90	35
DETAIL OF I.1. (supplier): <u>Killing and trimming dept.</u> - Knocking boxes, etc. <u>Canning dept.</u> - Seaming machines six "402" machines \$70,000 each <u>Sterilising dept.</u> - Carton closing machines <u>By-products dept.</u> - Soupsacks - Clarifying apparatus, etc.				Imported from United Kingdom, Federal Republic of Germany, Belgium and France. Total: US \$ 1,301,300 including transport and installation costs.				CAPACITY OF OPERATIVE SHOPS: * Season February - November. Actual number of days varies.			
<u>History of investment.</u> The construction of the factory was started in 1950; the first trial as well as commercial production in 1951. Continued investments have been made every year since 1951 under 3-year investment plans provided by the overseas parent company.								WORKING HOURS PER OPERATIVE WEEK: - Normal hours/day: 8 hours - Normal days/year: 250 days - Actual hours/year: 200 hours			
<u>Foreign participation.</u> The overseas parent company provides skilled personnel (management) on the basis of an agreement; this is, however, considered as a disadvantage from the standpoint of localisation of managerial personnel. The products are sold with international brand names, backed up by a large overseas marketing network.								<u>Slaughtering capacity (nominal):</u> During the high season (February - November): 800 heads/day (24 hours); 500 heads on Saturday. However, cattle supply limitation is said to be approximately 130,000 heads per annum.			
<u>Annual production programmes.</u> Annual production programmes are given by the parent company. Currently there is a training programme for local workers.								The capacity of the canning and other departments is linked to the slaughtering capacity.			
CURRENT PROBLEMS: <u>Transportation:</u> Long distances (road transport); poor, because of the long rains; local areas: fair.				Generating equipment: - Generator motors: (124) 544 kW				Generation equipment: - Installed capacity: - kVA			
GENERAL COMMENTS: <u>Environment:</u> Residential, health and recreational, educational, all fair.											

<i>Страна</i>	<i>Классификация</i>	<i>Основные продукты</i>	<i>Том №</i>	<i>Страница</i>
Мексика : 319-(2)	Медицинские препараты для людей и животных (антибиотики и другие вещества)		III	1088
Мексика : 319-(3)	Восковые и обычные спички		III	1090
Центральная Европа : 319-(1)	Мыло, моющие и косметические средства		III	1092
Центральная Европа : 319-(2)	Фармацевтические продукты (сосудосуживающие, противовотительные и болеутоляющие средства, капли и т. д.) и косметические средства (кремы и тонизирующие средства для кожи, лосьоны и т. д.)		III	1096
Центральная Европа : 319/350-(3)	Спички (также производят крепежные изделия и другие металлические принадлежности для литья в постоянные формы и инжекционного прессования)		III	1100
Южная Европа : 319-(1)	Органические соединения — промежуточные фармацевтические препараты		III	1104
Индия : 319-(1)	Спички	I	166	
Индия : 319-(2)	Тинктура, галеновые препараты, витамины для инъекций и другие лекарственные средства	I	168	
Индия : 319-(3)	Спички	II	576	
Индия : 319-(4)	Спички	II	578	
Индия : 319-(5)	Спички	II	580	
Индия : 319-(6)	Медицинские препараты (витамины, антибиотики, мази, сиропы и т. д.)	II	582	
Индия : 319-(7)	Медицинские препараты (витамины, гормоны, вспрыкиваемые препараты, тинктура и т. д.)	II	584	
Индия : 319-(8)	Медицинские препараты (абрамицин, синтомицетин и т. д.)	II	586	
Индия : 319-(9)	Медицинские препараты (брючин, эфедрин, стрихин и т. д.)	II	588	
Индия : 319-(10)	Мыло, глицерин и жирная кислота	II	590	
Индия : 319-(11)	Хозяйственное и туалетное мыло	II	592	
Израиль : 319-(1)	Спички	I	170	
Израиль : 319-(2)	Медицинские препараты	II	594	
Израиль : 319-(3)	Медицинские препараты	II	596	
Израиль : 319-(4)	Мыльный порошок, сульфокислота и моющие средства	II	598	
Япония : 319-(1)	Антибиотики и другие различные медицинские препараты	I	172	
Япония : 319-(2)	Спички	I	174	
Япония : 319-(3)	Спички и спичечная соломка	I	176	
Югославия : 319-(1)	Фармацевтические материалы, инсектициды и другие косметические средства	I	178	
Югославия : 319-(2)	Пенициллин, стрептомицин и другие антибиотики	I	179	
Югославия : 319-(3)	Спички	I	180	
Югославия : 319-(4)	Мыло и другие моющие и туалетные средства	II	600	
Югославия : 319-(5)	Мыло и другие моющие и туалетные средства	II	601	
Югославия : 319-(6)	Мыло и другие моющие и туалетные средства	II	602	

НЕФТЕПЕРЕРАБАТЫВАЮЩИЕ ЗАВОДЫ

Центральная Европа : 321-(1)	Смазочные масла и консистентная смазка	III	1106
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КИРПИЧ, ЧЕРЕПИЦА, СТЕКЛО И ИЗДЕЛИЯ ИЗ СТЕКЛА

Иран : 332-(1)	Оконное стекло, высокие стаканы, бутылки, изделия из хрусталия и т. д.	III	1110
Мексика : 331-(1)	Кирпич и другие строительные материалы	III	1114
Мексика : 332-(1)	Оконное стекло, плоские и закругленные ветровые стекла для автомашин, зеркала и т. д.	III	1116
Мексика : 332-(2)	Стеклянные изделия, банки	III	1118
Центральная Европа : 331-(1)	Кирпич, керамические плитки, керамические изделия и печной кафель	III	1120
Центральная Европа : 331-(2)	Огнеупорный кирпич (сплошной, пустотелый и т. д.)	III	1124

NAME AND ADDRESS - (1)		821	
IV. ANNUAL PRODUCTION (in 1000 US \$)		Dollars	
(1966) Product or group of products	Yr. of first marketing	Quantity produced	Nominal capacity utilization
		MTN	UNIT price at factory (US \$)
Canned meat		6,605	486.9
Beef extract		204	1,545.1
Bone soup		617	See capacity
Beef fat (edible)		267	181.1
Tallow (inedible)		294	244.7
Meat (bone, meat, liver)		2,085	120.5
Cattle hides		1,513	62.7
Other by-products		...	369.3
			1,287
			Total production value
			7,697
Total value of production			
Remarks: 90-95% of the output is exported through the international marketing channels of the overseas parent company. Meats (bone, meat and liver) are mainly consumed locally. Exports of meat products are subject to 3% export tax.			
Generalities: Imports of similar products from abroad are subject to 37.5% import tariff (relative to f.o.b. price).			
Capacity utilization: With full 3-shift 7 days week operation throughout the year, maximum number of cattle heads that can be processed in this establishment would be about 215,000. Due to the supply limitation, only 1 shift is working, processing 94,000 heads in 1966. If 1 shift operation is considered normal, however, the capacity of this establishment is fully utilized.			
V. CONSUMPTION (in 1000 US \$)		Dollars	
(1966)	Quantity	\$/kg	Total consumption value
1. Raw materials			
- Electricity	000 MTN	1,350.00	450
- Liquid fuels:			
Fuel oil	1	3,680.172	52
Propane	1	7,000	44
2. Consumable materials			4.05
Cattle	heads		
Frozen fat	kg	14,421	1,141
Caramel colouring	kg	9,298	101
Hackney essence (hydrolysed protein)	kg	4,918	100
Wheat flour	kg	12,479	101
Sugar	kg	115,654	21
Salt	kg	4,251	1
Sodium nitrofluoride	kg	1,192,154	20
Others	kg	21,287	1
* The c.i.f. value of salt includes 25% ad valorem tariff.			
VIII. CONSUMPTION OF THE ESTABLISHMENT IN THE COUNTRY (in US \$)			
(1966)		Dollars	
1. Size groups by establishment	No. of establishments	No. of units	Avv. size
Establishment size	Establishment size	Establishment size	Establishment size
10 - 19	35	295	...
20 - 49	47	1,025	...
50 - 99	26	1,525	...
100 - 499	17	3,625	...
over 500	2	8,300	...
Total	180	2,625	4,000
2. Size groups by scale of production of establishment			
Up to			
100			
100 - 200			
200 - 500			
500 - 1,000			
over 1,000			
Total			
No data available.			
IX. SUPPLIES		Dollars	
GENERAL POLICIES:			
Policies warranting better holding grounds for cattle are desired.			

Major Products: Beverages and ham. Capable of producing annually 316 t of meat products in one-shift operation.

Reporting Unit: A one-establishment enterprise, private corporation, no participation of foreign capital. Exports.

I. FIXED CAPITAL ASSETS

(End of 1967)

1. Primary process equipment

TOTAL

Year of construction	Unit value 1960 US \$	Appraised value 1960 US \$			
	47	51			
- Process equipment	44	46			
- Hand tools & apparatuses	0.2	0.2			
- Cost of installation	3	3			
2. Primary industrial building					
TOTAL	1966	39			
(total floor space: 478 m ²)		39			
3. Auxiliary facilities					
TOTAL		6			
- Water, steam, electricity, cooling & storing	1966	3			
- Transportation facilities		-			
- Administrative facilities	2	3			
- Laboratory facilities	-	-			
TOTAL FINISHED FIXED CAPITAL ASSETS		91			
Including land:		96			
4. Other fixed capital assets		4			
TOTAL		5			
- Land (total acreage: 2,649 m ²)		4			
DETAIL OF PROCESS EQUIPMENT					
	Quantity	Value			
	Number	Unit value 1960 US \$	Appraised value 1960 US \$		
- Cutters	2	FR.Germ.	1965	4.3	4.7
- Beering machine	1	USA	"	2.8	3.3
- Vacuum packing machine	1	FR.Germ.	"	1.6	1.7
- Stamping machine	1	FR.Germ.	"	3.0	3.2
- Sealing machine	1	"	"	0.7	0.7
- Cold rooms	"	"	10.8	11.8	
- Processors	"	"	2.6	2.8	
- Electrical motors	"	"	0.7	0.8	
- Auxiliary equipment	"	"	14.5	16.0	
- Chipper machine	"	"	2.6	2.8	

HISTORY OF INVESTMENT:

Construction of the factory started in 1965. The first trial as well as commercial production started in 1966. Profits accrued in the same year after utilising 60% of capacity. No significant investments have been made since that period.

CAPACITY POWER:

Process equipment:

Meat cutter

Generating equipment

Installed capacity

EVA

INTERNAL CONDITIONS:

Transport: Long distance, excellent; local area, fair.

Utilities: Electricity, excellent; water, fair.

Community: Residential, fair.

H. INVENTORIES AND WORKING CAPITAL

in 1960 US \$

(End of 1967)

1. Inventories

TOTAL

- Production materials
- Other input materials
- Work-in-process
- Finished products

2. Liquid assets

TOTAL

- Cash (hand/bank)
- Market, sec. & bonds
- Short-term investment
- Prepaid expenses
- Accounts receivable

3. Desired working capital

TOTAL

- | Period | Amount |
|------------------------|--------|
| 1 month | 11 |
| - Production materials | 8 |
| - Work-in-process | 0.5 |
| - Finished products | 3 |
| - Wages & salaries | - |
| - Other special items | - |

III. MANPOWER TABLE

Number of persons

(1967 average)

	Total	A	B	Indirect	Direct
ALL SHOPS & UNITS:	16		16		
1. Primary operative shops	13	9	4	-	-

Labourers

13 9 4 - -

2. Auxiliary operative units

1

	1	1	-	-
- Repair and maintenance	-	-	-	-

3. Auxiliary non-operative units

2

	2	2	-	-
- Production management	1	1	-	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day	8 hours	Normal days/year	260 days
Actual hours/year	2,080 hours		

CAPACITY OF OPERATIVE SHOPS:

IV. ANNUAL PRODUCTION

(1967)

Products for group of produced

	Vt. of fin prod.	Quantity produced	(*) Standard capacity output	Unit price in factory US \$	Total production value US \$
	Unit	Units	Output		
- Hot dogs	1966	lbe	73,600	122,667	0.38
- Bologna	"	"	51,400	85,667	0.37
- Ham	"	"	20,500	34,165	1.09
- Miscellaneous	"	"	251,960	391,601	0.36
					91
					160

(*) based on one-shift operation

TOTAL VALUE OF PRODUCTION

VI. VALUE ADDED

(1967)

	Value added US \$
- Employees in direct production (13 persons)	9
- Other employees (3 persons)	10
2. Other payments for employees	1
3. Annual depreciation	12
4. Rentals paid	-
5. Interest & royalties	4
6. Sales tax	-
7. Other Ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	6
	42

CAPACITY UTILIZATION:

In order to utilize the total capacity additional 72-man hours per day would be required.

COMPETITIVE IMPORTS:

The following tariff rates are imposed on imported meat products like:

	Tariff rate per gross kg + ad values
- Hot dogs and Bologna	US \$ 0.90 30%
- Ham	" " 1.00 30%

EXPORTS:

	Unit price f.o.b. (US \$)
Hot dogs (25% of total production)	0.38
Bologna (4% " ")	0.37
Ham (15% " ")	1.09
Miscellaneous (15% " ")	0.36

V. ANNUAL CONSUMPTION

(1967)

1. Energy and water

	Quantity consumed				
	Unit	Production		Consumption value	Total value
TOTAL:				2	
- Electricity	000 Kwh	81.7		2.2	
- Firewood	t	10		0.2	
- Liquid fuels and lubricants	m ³	0.38		0.1	

2. Production materials

	per gross kg	ad val.					
- Meat	lbe	291,800	US \$ 0.6	10%	104		
- Ice	"	115,400	..		1		
- Sugar	"	1,200			0.1		
- Salt	"	4,700			0.1		
- Condiments	"	2,100	" " 0.5	25%	2		
- Others	"	..	US \$ 0.5	25%	3		

(*) All packaging materials and 50% of parts and supplies for equipment maintenance are imported.

VI. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1967)

Industry group:

					(HSNC:)
t. No. groups by number of persons employed	Number of groups	Ave. no. of emp.	Ave. gross prod. val. US \$	Ave. exp. gross prod. ratio (%)	

No data available.

TOTAL:
2. No. groups by
size of annual production
US \$ 0.00
up to

IX. SUPPLEMENTS

VI. VALUE ADDED

(1967)

	Value added US \$
- Employees in direct production (13 persons)	9
- Other employees (3 persons)	10
2. Other payments for employees	1
3. Annual depreciation	12
4. Rentals paid	-
5. Interest & royalties	4
6. Sales tax	-
7. Other Ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	6
	42

VII. MONTHLY EARNING RATES

(End of 1967)

No. of avg. working hrs. wkly	Avg. earning per hr. US \$
TOTAL:	
2	100
- Managers	1 600
- Engineers	- -
- Technicians	- -
- Accountants	- -
- Sales officers	- -
- Other professional staff	- -
- Clerks & typists	1 160

2. Local operatives

No. of avg. working hrs. wkly	Avg. earning per hr. US \$
TOTAL:	
14	59
- Supervisors	- -
- Foremen	- -
- Machine operators	9 66
- Craftsmen	- -
- Truck drivers	- -
- Other full-time operatives	4 38
- Unskilled & part-time operatives	1 80

3. Foreign employees

No. of avg. working hrs. wkly	Avg. earning per hr. US \$
TOTAL:	

3. Other materials & supplies

TOTAL:	3
- Packaging (celloph. and polyeth.bags)(a)	2.5
- Repair & maintenance (*)	0.4
- Non-factor service inputs	0.2

4. Business services purchased

TOTAL:	3
- Transport, storage & insurance	0.3
- Communication, advertisements, etc.	3.1

5. Work performed by sub-contractors

TOTAL:	-

118

TOTAL:
* Capital is defined as physical capital assets.

Major Products: Slaughtering of cattle, pigs, calves and sheep. Capable of producing annually about 1,600 t of beef, 1,150 t of pork, 85 t of veal and 90 t of mutton based on 1-shift operation.

Reporting Unit: A one-establishment enterprise; founded in 1964; co-operative society; exports; excellent location concerning supply with cattle and distribution of meat; 23 employees.

^aNB Details of process equipment and capacity of primary operating plants are given on Page three (Section VIII).

EXTERNAL CONDITIONS:		IV. MANNING TABLE		Number of persons		Shift categories:	
		(1968 average)		Total	1st Shift	2nd Shift	3rd Shift
		A	B	C	D	E	F
Transport:	external long distance	excellent					
	internal long distance	"					
	local and city	insignificant					
Utilities:	electricity	fair					
	water	excellent					
	gas	insignificant					
Community:	residence	excellent					
	health and recreation	fair					
	education	insignificant					
Own Welfare Facilities:	-						
III. INVENTORIES							
(End of 1968)		Actual value 1000 US \$	Number of months				
Inventories							
TOTAL:		58					
- Production materials (*)		-					
- Other input materials		-					
- Work-in-process (**)		11	0.5				
- Finished products		27	1				
(*) No storage due to continuous supply of raw material.							
(**) Frozen meat.							
WORKING TIME PER OPERATIVE WORKER:							
	1st shift	2nd shift	3rd shift				
Shift hours/day	11 (*)	-	-	hours			
Actual hours/year	2,860	-	-	hours			
Actual days/year	260	-	-	days			
(*) Actual shift hours due to overtime. Normal working time: 8 hrs/day.							
(*) This process is applied, except for slight technical modifications, for the slaughtering of pigs, cattle, and calves.							
2. Auxiliary operative units							
- Repair & maintenance	5	2		3			
- Mechanical shop	2	1		1			
- Tooling shop	-	-		-			
- Utilities control	-	-		-			
- Product & material storage	-	-		-			
- Off-site transport	3	1	2	-			
- Guards, cleaners, etc.	-	-	-	-			
3. Auxiliary non-operative units							
- Production management	10	10		-			
- Research & development	1	1		-			
- Sales unit	-	-		-			
- Accounting	5	5		-			
- General administration	4	4		-			

V. ANNUAL PRODUCTION

(1968)

Products for group of products

	Yr. of prod.	Quantity produced Unit	Quantity Quality	Avg. unit price on factory (US \$)	Total output value (1000 US \$)
Beef	1965	t	1,500	1,135.3	1,703
Pork	"	"	1,040	850	884
Veal	"	"	78	1,487.2	116
Mutton	"	"	80	962.5	77
Revenue from commission work	-	-	-	-	4
Other revenue, e.g. freight charges	-	-	-	-	51

Note: Revenue from sales of waste is already included in the total output value

TOTAL VALUE OF PRODUCTION: 2,835

VI. VALUE ADDED

(1968)

1. Annual wages & salaries:
 - Operative workers
 - (11 persons)
 - Non-operative workers
 - (12 persons)
2. Other payments to employees
3. Annual depreciation
 - Machinery & equipment
 - Buildings & other facilities
 - Non-physical capital assets
4. Rents paid
5. Interest & royalties
6. Sales tax
7. Other indirect business taxes (*)
8. (-) Subsidies
9. Corporate income before tax

(*) transportation tax and car tax

TOTAL VALUE ADDED: 162

DESCRIPTION OF MAJOR PRODUCTS:

The establishment only sells halves (pigs) and quarters (cattle) of slaughtered animals.

MARKET ASPECTS:

Re-seller:

Annual turnover amounts to US \$ 11.6 million and includes purchases as well as sales of domestic cattle, breeding cattle, and fat stock. Some cattle is raised on own farm. 24,000 heads of cattle, 32,000 pigs and 8,000 calves are traded annually.

Consumers of products:

Meat processing industry, butchers, restaurants, hotels, etc.

Sales organization:

Approx. 8% of production is delivered by own refrigerated trucks, the rest is picked up by the customers themselves.

Share in the domestic market:

Not determinable since there are too many slaughter-houses in the country.

Competition in the market:

Keen price and quality competition, as at present supply exceeds demand.

EXPORT:

Total annual export: US \$ 640,000.

Ship products	To Western countries	To Eastern countries	To developing countries
Fresh meat (cooled)	100%	-	-

Export price policy:

The government grants export licences for a monthly export of 40 - 50 t of fresh meat.

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1968)

	Quantity consumed Unit	Quantity Quality	% Import	Avg. import unit value	Total consumption value (1000 US \$)
1. Energy and water TOTAL:					15
- Electricity	000 kWh	470			7
- Diesel oil	t	70			6
- Fuel oil	t	68			2
- Water (*)	000 m³	8			-
(*) internally supplied					
2. Production materials TOTAL:					2,616
- Cattle	pcu.	4,946	-	-	1,600
- Pigs	"	12,839	-	-	828
- Calves	"	1,384	-	-	111
- Sheep	"	5,200	-	-	77

3. Other materials & supplies

TOTAL:	
- Packaging material (containers, paper, etc.)	2
- Parts, supplies & services	5
- Other materials & supplies	3

4. Business services purchased

TOTAL:	
- Transportation, storage & insurance	7
- Communication, advertising & other business services	25

5. Work performed by subcontractors

TOTAL:	
	-

TOTAL VALUE OF CONSUMPTION: 2,673

VIN THERMOBIOCICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (S.I.)	Number	Original Purchase Value RSR 1000	Age years RSR 1000	On Order A. Received B. Self-constructed		Supplier country	Daily running time	Capacity output
				Remote	Local			
Overhead track: rail	1					Austria	8 hrs	..
Picking machine	1					"	2 x a week/6 hrs	35 pigs/hr
Cut cleaning machines	2	66		112	4	"	occas. 5 hrs	150 pigs/week
Masonry processing machine	1					"	very seldom used	..
Pouch cleaning machine	1					"	8 hrs	..
Rotating crushing machine	1	12		17	4	FR.Germ.	8 hrs	..
Cooling equipment	1	22		54	4			
Scales	3	13		19	4			
Elevator	1	6		10	4			
Electrical equipment	1	32		62	4			
Heating and sanitary equipment	..	38		65	4			

CAPACITY POWER:

Program components:

- electric motors 135 kW

Generating equipment:

- installed capacity -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Higher primary operative steps	Kind of process involved	A conventional high standard		B conventional	
		Method	Agents	Further details	
Three-phase slaughtering	Details see below	A	II		
<u>Cattle slaughtering:</u>					
1. Phase: Shooting - butchering - preparation of head (3 operatives)					
2. " : Decapitation - opening of breastbone and of abdominal wall (2 operatives)					
3. " : Removal of intestines - removal of skin - division of cattle - pre-cooling (3 operatives)					
				Advantages: Whereas the conventional slaughtering process requires at least 12 persons, 3-phase slaughtering can already be done with 3 - 8 operatives through intensive utilisation of substitutes. Up to 35 pigs can be processed/hour processing of one cattle requires 8 - 10 minutes only.	

Average: Whereas the conventional slaughtering process requires at least 12 persons, 3-phase slaughtering can already be done with 3 - 8 operatives through intensive utilization of substitutes. Up to 35 pigs can be processed/hour processing of one cattle requires 8 - 10 minutes

CAPACITY UTILIZATION:
Full-capacity output: US \$ 3,150,000.

XL. MONTGOMERY & PLATT

1. Performance in the past:	Total output (\$'000 US \$)	No. of persons employed	Total exports (\$'000 US \$)
Year: 1963	-	-	-
1964	-	-	-
1965	2,260	17	520
1966	2,370	19	500
1967	2,630	21	500
1968	2,840	22	600

All shapes are utilized up to 80%

3. Investments in the next

2. **Number of bars:** _____ **Type of bars:** _____

1

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Capacity of pre-cooling room is far too small.

8.

In 1968:

11 CHARACTERISTICS OF THE INDUSTRY IN THE COMMODITY

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ANSWER

1. Size groups by number of persons employed up to	Av. W. & L. per pers.			Av. gross prod. val/ per pers.			Av. value added/prod. per pers.			2. Size groups by annual value of production US \$:	Av. W. & L. per pers.			Av. gross prod. val/ per pers.			Av. value added/prod. per pers.		
	No. of estab.	No. of empl.	(\$)	No. of estab.	No. of empl.	(\$)	No. of estab.	No. of empl.	(\$)		No. of estab.	No. of empl.	(\$)	No. of estab.	No. of empl.	(\$)	No. of estab.	No. of empl.	(\$)

No data available, since enterprise was founded in 1964.

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III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of contract		
1. Engineering study	3. Technical and managerial personnel	6. Import and export promotion
2. Financial assistance	4. Technical training	7. Administration of foreign labour
3. Technical services		
4. Equipment supply,		
Installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
1				Preliminary engineering studies could be furnished for the slaughtering industry.
3				Supply of know-how contracts for entire production process (3-phase slaughtering).
5				Establishment could supply own personnel to train operatives.
6				The enterprise is interested in expanding its exports to developing countries.

III. SUPPLEMENTS & NOTES

Commission work:

Cattle, pigs and calves are slaughtered and processed on commission basis amounting to US \$ 3,870 in the reporting year.

Current problems:

Demand for high-quality meat increases steadily.

Inventorization policy:

Only meat which cannot be processed immediately and which therefore has to be refrigerated or frozen is counted as inventories.

The value of finished products in stock equals about % of total production value.

Amortization policy:

The straight line method is applied.

History of investment:

Construction of the factory started in 1964, the first products were manufactured in 1965. The break-even point was surpassed in 1967 with sales amounting to 2,600 t of meat.

Major Products: Cheese, butter, cream, etc.

Installed annual capacity output of cheese is 900,000 t.

Reporting Unit:

A one-establishment enterprise; founded in 1957; no participation of foreign capital.

I. FIXED CAPITAL ASSETS

(End of 1966)	Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$
1. Primary process equipment			
TOTAL		52.8	..
- Process equipment		52.8	
- Hand tools & apparatuses		-	-
- Cost of installation		-	-
2. Primary industrial building			
TOTAL		2.0	1.8
(total floor space: 1,000 m ²)		2.0	1.8
3. Auxiliary facilities			
TOTAL		13.5	16.0
- Water, steam, electricity, cooling & storing		-	-
- Transportation facilities		13.5	16.0
- Administrative facilities		-	-
- Laboratory facilities		-	-
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excluding land)		68.3	..
4. Other fixed capital assets			
TOTAL		4.0	28.0
- Land (total acreage: 1,200 m ²)		4.0	28.0

DETAIL OF PROCESS EQUIPMENT No.:	Supplier country	Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$
Separators	(2) FR.Germ.	1957/60	6.0	
Steel tank for storing	(1) Mexico	1957	0.2	
Pre-heating steel tank	(1) "	1966	3.6	
Clarifiers	(3) FR.Germ.	1957/59/	5.0	
Low temperature pasteurizers(4)	USA	1957/60/	11.2	
Pasteurization		64		
Pasteurization		1964/66	3.2	..
Boilers	(2) "	1957/64	5.2	
Steel kettle for curdling	(5) Mexico	1957/58/	4.0	
Refrigerating chambers	(4) "	1957/60	11.2	
Equipment for vacuum packing	"	1960	3.2	

HISTORY OF INVESTMENT

The primary building was not newly constructed at the time of foundation; an old building was renovated and used as it was.

The first trial as well as commercial production started in 1957; the operation became already profitable in the same year. In 1957 approx. US \$ 20,000 were invested for additional machinery and equipment in general; in 1960 another US \$ 40,000 were invested for the same purpose; from 1961 to 1964 US \$ 20,000 were invested for replacement and improvement of machinery and equipment in general, and in 1966 another US \$ 8,000 were invested for the same purpose.

II. INVENTORIES AND WORKING CAPITAL

(in 1,000 US \$)

(End of 1966)	Actual value	2. Liquid assets	Actual value
1. Inventories			
TOTAL	16.9	TOTAL	56.4
- Production materials	1.8	- Cash (bank/bank)	22.7
- Other input materials	0.8	- Market. sec. & bonds	-
- Work-in-process	9.3	- Short-term investment	-
- Finished products	6.0	- Prepaid expenses	-
		- Accounts receivable	33.7
3. Desired working capital	Number of months	Value	
TOTAL			
- Production materials			
- Other input materials			
- Finished products			
- Wages & salaries			
- Other special items			

III. MANNING TABLE

Number of persons

(1966 average)	Total	1st shift A	2nd shift B	3rd shift A+B
ALL SHOPS & UNITS:	73	71	2	-
1. Primary operative shops	26	15	9	2
Storage	3	-	3	-
Pasteurization	4	2	-	2
Fermentation	6	4	2	-
Moulding and pressing	10	6	4	-
Packing	3	3	-	-
2. Auxiliary operative units	23	23	-	-
- Repair and maintenance	1	1		
- Mechanical shop	-	-		
- Utilities control	-	-		
- Product & material storage	4	4		
- Off-site transport	16	16		
- Guards, cleaners, etc.	2	2		
3. Auxiliary non-operative units	24	24	-	-
- Production management	1	1		
- Research & development	1	1		
- Sales unit	21	21		
- General administration	1	1		

WORKING TIME PER OPERATIVE WORKER:

- Normal hours/day:	8 hours	Normal days/year:	306 days
- Actual hours/year:	2,448 hours		

CAPACITY OF OPERATIVE SHOPS:

CAPACITY POWER: Process equipment: - Electric motors:	Generating equipment: Installed capacity: - kVA
--	--

EXTERNAL CONDITIONS:
Transport: Long distance, local area, excellent.

Utilities: Electricity fair; water, excellent.

Community: Residential, health and recreational facilities fair; educational facilities poor. The level of education of workers should be raised by semi-specialized technical schools, free short-term courses, retraining, and supply of labour.

IV. ANNUAL PRODUCTION

(1966)	Yr. of first prod.	Quantity produced	Standard capacity output	(%) Unit price in factory US \$	Total production value US \$
Products (or group of products)		Unit	Output		
Cheese "A" (*)	..	t	375	(8*)	1.60/kg 600.0
Cheese "B" (*)	..	t	35	900,000	1.44/kg 50.4
Cheese "C" (*)	..	t	2.5	..	1.12/kg 2.8
Butter	..	t	16	..	1.60/kg 25.6
Cream (**)	000 1	23.5	..	0.94/l 19.7	
Ice-creams	000 1	7.5	..	0.56/l 4.2	
Sour milk	000 1	8.2	..	0.20/l 1.6	
Liquid whey	000 1	2,133.6	..	1.00/l 21.3	
TOTAL VALUE OF PRODUCTION				725.6	

(*) Cheese "A" = Refined cheese of soft paste type "manchego"

Cheese "B" = Cheese type "quesadillo"

Cheese "C" = Fresh cheese

(**) Includes butyric fat production for industries

(**) Assumes 2 shifts

(**) Not including sales tax

Competitive imports: No figures available.Imports: None.Capacity utilisation: Capacity utilisation could be doubled if the factors were fully operated with two shifts. The major cause of the underutilisation is lack of production material and skilled labour. For full utilisation of the existing capacity additional two or three workers would be required on the 2nd shift.

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed	Total			
	Units	Per cent	Imported value	Domestic value	US \$
1. Energy and water					
TOTAL:				10.1	
- Electricity	000 kWh	..		4.5	
- Diesel oil	000 l	85.3		2.4	
- Petrol	000 l	42.7		3.0	
- Gas	t	2.3		0.2	
2. Production materials				393.3	
TOTAL:				390.4	
- Milk	000 l	4,243	-		
- Curds	000 l	3.9	100	2.4	
- Salt	t	9.6	-	0.5	
3. Other materials & supplies					
TOTAL:				12.5	
- Packaging (plastic bags)				8.9	
- Repair & maintenance				2.6	
- Non-factor service inputs				1.0	
4. Business services purchased					
TOTAL:				5.6	
- Transport, storage & insurance				-	
- Communication, advertisement, etc.				5.5	
5. Work performed by sub-contractors					
TOTAL:				422.5	

VI. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)					
Industry group: Manufacture of dairy products (INC: 202)					
1. Size groups by number of persons employed	Number of enterprises	Number of persons employed	Avg. per pers.	Avg. per enterpr.	Total
up to 5	163	546	3.34	6,071	34
6 - 50	174	2,994	9.15	5,065	64
51 - 500	49	6,609	1,259	15,847	46
TOTAL:	386	10,151	1,090	14,283	46
2. Size groups by value of annual production US \$					
up to 5	229	619	113	1,085	71
over 5	300	9,533	1,118	14,724	46
TOTAL:	529	10,452	1,057	13,816	46

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1965)	Value US \$
1. Wages & salaries	
- Employees in direct production	53.4
(49 persons)	
- Other employees	103.1
(24 persons)	
2. Other payments for employees	11.1
3. Annual depreciation	6.6
4. Rentals paid	-
5. Interest & royalties	-
6. Sales tax (not incl. in FOB)	(10.2)
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	120.0
TOTAL:	303.0

VII. MONTHLY EARNING RATES

(End of 1966)	No. of emp.	Average earning per month US \$
1. Local non-operatives		
TOTAL:	19	424
- Managers	4	120
- Engineers	-	-
- Technicians	-	-
- Accountants	1	280
- Sales officers	1	480
- Other professional staff (sales supervisors and cashiers)	-	-
- Clerks and typists	1	60
2. Local operatives		
TOTAL:	45	16
- Supervisors	1	160
- Foremen	2	120
- Machine operators	11	96
- Craftsmen	1*	120
- Truck drivers	12	120
- Other full-time operatives	18	72
- Unskilled & part-time operatives	-	-
* permanent, others as required.		
3. Foreign employees		
TOTAL:	-	-
4. Other materials & supplies		
TOTAL:	12.5	
- Packaging (plastic bags)	8.9	
- Repair & maintenance	2.6	
- Non-factor service inputs	1.0	
5. Business services purchased		
TOTAL:	5.6	
- Transport, storage & insurance	-	-
- Communication, advertisement, etc.	5.5	
6. Work performed by sub-contractors		
TOTAL:	-	-

IX. SUPPLEMENTS

Governmental policies:

Without co-operation with LAPTA countries (particularly in regard to the use of the Argentine surplus milk) this firm's products cannot be cheap enough to compete in the export market.

Promotion of dairy cattle raising in Mexico together with economic and technical assistance would help to lower costs of production materials.

Future plan:

A future plan is being studied in connection with the plan for improving the silk supply.

Major Products: Whole milk powder, cream powder, skimmed milk powder, chocolate preparation.
Total annual output amounted to 12,000 t of milk powder products, based on 3-shift operation.
Full-capacity output amounts to approximately 20,000 tons.

Reporting Unit: A one-establishment enterprise, privately owned, founded in 1958. Largest producer of milk powder in the country. The establishment only performs commission work or materials supplied by the national association of milk processing enterprises which also regulates the quantity of milk to be produced and processed. Plant is located in one of the major milk producing areas of the country. 80 employees. 60% exports.

(**) See I.2. Auxiliary buildings

*NB Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

(*) Including employer's contributions to social security.

EXTERNAL CONDITIONS:		
Transport:	external long distance internal long distance local and city	excellent fair "
Utilities:	electricity water gas	excellent fair insignificant
Community:	residence health and recreation education	fair excellent fair
Own Welfare Facilities:		-

INVENTORIES	Annual value (1000 US \$)	Number of months
Total:	10	-
- Production materials (*)	-	-
- Other input materials	10	1
- Work-in-process	-	-
- Finished products	-	-

(*) Incoming raw materials are processed immediately after arrival.

WORKING TIME PER OPERATIVE WORKER:			
	1st shift	2nd shift	3rd shift
Shift hours/day	8	..	..
Actual hours/year	2,280	..	..
Actual days/year	285	285	285

IV. MANNING TABLE		Number of persons		Shift categories:					
				A Supervisory staff and foremen (for all shifts)				B Skilled operatives	
				D Unskilled operatives:					
		Total		A	B	C	D	2nd Shift	3rd Shift
								B-0	B-0
ALL SHOPS & UNITS:		80	17		42			11	10
1. Primary operative shops		52	4	3	16	10		10	9
- Milk storing unit		5	1	-	2	-		2	-
- Production of milk powder		38	3	3	13	6		6	7
- Packing shop		9	-	-	1	4		2	2
2. Auxiliary operative units		20	5		13			1	1
- Repair & maintenance		2	-		2			-	-
- Mechanical shop		4	1		1			1	1
- Tooling shop		-	-		-			-	-
- Utilities control		-	-		-			-	-
- Product & material storage		4	-		4			-	-
- Off-site transport		2	-		2			-	-
- Guards, cleaners, etc.		4	-		4			-	-
- Laboratory		4	4		-			-	-
3. Auxiliary non-operative units		8	8		-			-	-
- Production management		3	3		-			-	-
- Research & development		-	-		-			-	-
- Sales unit		-	-		-			-	-
- Accounting		5	5		-			-	-
- General administration		-	-		-			-	-

<i>Страна</i>	<i>Классификация</i>	<i>Основные продукты</i>	<i>Том №</i>	<i>Страница</i>
Центральная Европа : 332-(1)		Стеклянные бутылки, широкогорлые стеклянные банки, осветительное стекло	III	1128
Франция : 332-(1)		Стеклянные бутылки	II	604
Индия : 331-(1)		Огнеупорный кирпич, изоляционный кирпич, канализационные трубы и строительные растворы	II	606
Индия : 331-(2)		Огнеупорный кирпич и блоки, строительные растворы и очищенная глина	II	608
Индия : 331-(3)		Огнеупорный кирпич	II	610
Индия : 331-(4)		Стекловолокно, огнеупорные продукты и керамические грубы	II	612
Израиль : 331-(1)		Черепица (белая и цветная)	II	614
Израиль : 332-(1)		Стеклянные изделия (чашки, бутылки и т.д.)	II	616
Югославия : 331-(1)		Керамическая черепица, кераминка для санитарии и другие бытовые керамические изделия	II	618
Югославия : 331-(2)		Кирпич и черепица	II	619
Югославия : 331-(3)		Огнеупорный кирпич и другие огнеупорные материалы	II	620
Югославия : 331-(4)		Кирпич	II	621
Югославия : 332-(1)		Оконное стекло и стеклянная посуда	II	622
Югославия : 332-(2)		Стеклянные банки	II	623
Югославия : 332-(3)		Стеклянные изделия	II	624

ПРОИЗВОДСТВО ГИДРАВЛИЧЕСКОГО ЦЕМЕНТА

Восточная Африка : 334-(1)	Портландцемент	III	1132
Иран : 334-(1)	Цемент	III	1134
Центральная Европа : 334-(1)	Цемент и связующие вещества	III	1138
Центральная Европа : 334-(2)	Цемент и смесь из цемента и извести	III	1142
Центральная Европа : 334-(3)	Портландцемент и клинкер	III	1146
Центральная Европа : 334-(4)	Цемент и связующие вещества строительных растворов	III	1150
Франция : 334-(1)	Цемент	I	182
Франция : 334-(2)	Цемент	I	184
Индия : 334-(1)	Цемент	I	186
Индия : 334-(2)	Цемент	I	188
Индия : 334-(3)	Цемент	I	190
Индия : 334-(4)	Цемент	I	192
Индия : 334-(5)	Цемент	I	194
Израиль : 334-(1)	Цемент	I	196
Израиль : 334-(2)	Цемент	I	198
Югославия : 334/339-(1)	Цемент и асбестоцементные изделия	II	625
Югославия : 334-(2)	Цемент	II	626
Югославия : 334-(3)	Цемент	II	627
Югославия : 334-(4)	Цемент	II	628

БЕТОННЫЕ, АСБЕСТОВЫЕ И ГИПСОВЫЕ ИЗДЕЛИЯ И Т.Д.

Центральная Европа : 339-(1)	Обожженный магнезит (огнеупорный материал и строительные растворы) и магнезитовый кирпич	III	1154
Центральная Европа : 339-(2)	Бетонные изделия	III	1158
Франция : 339-(1)	Стекловолокно (силикатное волокно для тканей, столбов, фитилей, шаров и т.д.)	II	630
Франция : 339-(2)	Бетонные изделия (небольшие балки, штукатурка для готовых перекрытий, бетонные блоки и трубопроводы)	II	632
Франция : 339-(3)	Бетонные изделия (блоки, плиты, трубы, материалы для дорожного покрытия и т.д.)	II	634

V. ANNUAL PRODUCTION

(1968)	% of first prod.	Quantity produced Unit	Quantity	Avg. unit price at factory (US \$)	Total output value (US \$)
Whole milk powder	1960	t	3,703	97.50 (*)	
Powdered cream	1964	"	549	"	
Skimmed milk powder	1960	"	4,722	"	
Chocolate preparation	1967	"	2,214	"	(1,155)
Calac (1/3 whole milk powder and 1/3 cocoa)	1964	"	90	"	
Chocolate milk crumb	1968	"	108	"	
Whole milk powder enriched with iron and vitamins (infant food)	1967	"	457	"	
Total revenue from contract and commission work					1,155
(*) Avg. processing fee/ton of finished product					TOTAL VALUE OF PRODUCTION: 1,155

VI. VALUE ADDED

(1968)	Total value (US \$)
1. Annual wages & salaries	183
- Operative workers (63 persons)	136
- Non-operative workers (17 persons)	47
2. Other payments for employees	47
3. Annual depreciation	364
- Machinery & equipment	135
- Buildings & other facilities	23
- Non-physical capital assets	6
4. Rentals paid	2
5. Interest & royalties	107
6. Sales tax	64
7. Other indirect business taxes	9
8. (-) Subsidies	-
9. Corporate income before tax	105
TOTAL VALUE ADDED: 361	

DESCRIPTION OF MAJOR PRODUCTS:

Milk powder: Without any chemical agents, therefore no change in taste. Can be stored almost unlimited. Company considers its milk powder products to be top European quality.

Milk powder comes in bags of 25 kg and cans of 12.7 kg (2 cans = 1 carton) and can be delivered within one week ex factory.

Company could also dehydrate eggs, vegetables, and yeast.

MARKET ASPECTS:

Consumers of products:

Chocolate industry, baby food industry, food industry, etc.

Sales organization:

Working as a subcontractor, the establishment does not have a sales organization of its own.

Extent of the market:

The company has to process any fresh silk delivered on behalf of the national association of silk processing enterprises. Usually this quantity does not suffice to operate on full capacity.

Export price policy:

Cost of production of milk powder is approximately equal to the average European silk price plus processing costs of the leading European dairy farming countries.

Exports of silk powder products are very much hampered by potential buyer countries. Finished products can only be exported by the national association of silk processing enterprises.

EXPORT:

Total annual export: 7,000 t, i.e. about 60% of the total production

Major products	To Western countries	To Eastern countries	To Developing countries
Whole powdered milk	80%	-	20%
Powdered cream	100%	-	-
Powdered skimmed milk	-	-	100%
Chocolate preparation	100%	-	-
Baby food	100%	-	-
Chocolate milk crumb	100%	-	-
Calac	100%	-	-

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed Unit	Quantity	% Import	Average import date	Total consumption value (US \$)
1. Energy and water					
TOTAL:					179
- Electricity	000 kWh	3,120			50
- Fuel oil	t	5,210			129
- Steam (internal supply)	m3	73,030			-
- Water " "	m3	378,400			-
2. Production materials					-
TOTAL:					(*)
- Sugar	t	61			- (*)
- Cocoa mass	"	98			-
- Cocoa powder	"	25			-
- Whole milk	"	52,937			-
- Skimmed milk	"	51,110			-
- Cream	"	2,473			-

(*) See note under XII, page 4, commission work.

	Total consumption value (US \$)
3. Other materials & supplies	73
TOTAL:	73
- Packaging material (455,000 bags with polythene ply, 37,000 tins, 18,500 cartons)	3
- Parts, supplies & services	38
- Other materials & supplies	32
4. Business services purchased	22
TOTAL:	22
- Transportation, storage & insurance	4
- Communication, advertising & other business services	18
5. Work performed by subcontractors	-
TOTAL:	-
TOTAL VALUE OF CONSUMPTION: 274	

VIII. TECNICA SISTEMATICA DE ANALISIS DE DATOS

DETAIL OF PROCESS EQUIPMENT 8.1)	Quantity	Power kW	Supplier Name	Year of installa- tion	Output capacity per hour
Two-stage evaporator	1	30	"	"	4,000 l
Roller dryers	2	38	"	"	350-400 kg
Three-stage evaporator	2	127	"	1962-1963	4,000-5,000 kg
Three-stage evaporator	2	21	"	1965-1967	10,000-17,000 "
Spray-towers	2	241	"	1962-1963	150-400 kg
Spray-towers	2	313	"	1965-1967	1,000-1,500 kg
Milk tank (10,000 lt)	10	56	Austria	1960-1967	
" " (15,000 "	4	46	"	"	
" " (30,000 "	6	57	Italy	"	
" " (80,000 "	4	58	Austria	"	
" " (10,000 "	4	10	Italy	"	
Milk pipelines and equipment for chemical cleaning	1	19	Austria	"	"
Mix and filling machine	1	8	Switzerland	1965	"
Sealing machine for plastic sacks	1	107	"	1965	"
Boring machinier	4	7	"	"	
Vibrating table	1	0.5	"	"	
Homogeniser	1	10	"	"	
Elevators	2	12	"	"	
Stacker, sets of pulleys	11	5	"	"	

CAPACITY OF PRIMARY OPERATIVE MODE

Major primary operating stage	Kind of process involved	A: low demand		B: approximately 50% utilization		C: extremely high demand	
		1. raw material	2. processing	3. storage	4. raw material	5. processing	6. storage
Milk storing unit	Milk is delivered by tank-trucks and stored in stainless steel tanks until processing.	A	II			Capacity of steel tanks 700,000 l; daily delivery	
Production of milk powder	Multiple-stage dehydration of milk - spray tower - roller driers	A	II			At full-capacity output operating 3 shifts 70 tons of milk powder could be produced per day. Current utilization rate approximates 75%.	
Packing shop		B	II				

CAPACITY UTILIZATION

Full-capacity output: Approximately 20,000 t annually. Could only be achieved with 4 additional operatives on the 1st shift and 3 additional operatives on the 2nd and 3rd shift each.

Current utilization: based on 3-shift operation.

Major products (or processes)	up	Approximate %						
	to 30	40	50	60	70	80	90	100

- Whole powdered milk
- Powdered cream
- Powdered skimmed milk
- Chocolate preparation
- Cacao
- Chocolate milk crust
- Whole powdered milk baby food

14. MYSTERY & PLANE

	Total output t	No. of persons employed	Total output %
1. Performance in the past:			
Year: 1963	4,401	45	50 - 65%
1964	7,000	47	"
1965	8,208	57	"
1966	8,415	70	"
1967	12,766	87	"
1968	11,843	80	65%
Appreciations			
2. Investments in the past:	Amount RSR 1000		Type of investment
From 1958 to 1961 :	553		Roller drier and evaporator
" 1962 " 1964 :	804		2 spray-towers with evaporators
" 1965 " 1967 :	1,527		2 spray-towers with evaporators, boiler house
1968 :	233		
3. Future Plan:			
1969 :	194		Evaporator to produce silk powder, instant cocoa, and instant coffee. Tin-filling machine.
			2 additional operatives will be required on the 1st shift.

1. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C - Confidential; figures of this size group included above.

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Manufacture of dairy products

ANSWER

II. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of contract	1. Engineering work	2. Technical and managerial assistance	3. Export and import
	3. Research activities	4. Technical training	5. Administration of foreign
	5. Industrial assistance	6. Technical consulting	7. Technical assistance
	6. Economic supply	7. Technical consultancy	8. Other
	8. Delegation of authority		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service
 1. Engineering work
 2. Technical and managerial assistance
 3. Research activities
 4. Technical training
 5. Industrial assistance
 6. Technical consulting
 7. Technical consultancy
 8. Delegation of authority

FEED OF SERVICE**DELEGATION OF AUTHORITY**

- 1,7 Company reports general interest to provide both technical and advisory assistance for over-all planning of milk processing plants.
- 2,6 Financial assistance could be worked out in the form of a joint-venture. In this particular case the company could provide its training facilities.
- 3 Know-how contracts would not only cover the dehydration of milk but the production of butter, cheese, and other milk products as well.
- 4 Within the framework of a know-how contract the company could furnish addresses of well-known producers of milk processing machinery.
- 5 The know-how agreement would include the delegation of exports as well.
- 8 The establishment would like to export its products to developing countries. The acceptance of cash in return even on barter basis is possible.

III. SUPPLEMENTARY NOTESCommission work:

The total value of production results from commissions received for processing of raw materials (e.g. milk) supplied and consumed by the national association of milk-processing enterprises.

Inventory policy:

Since the company only performs commission work, inventories do not exist except for a few minor input materials.

Government policies:

Market regulations as decreed by the national government determine the size of the area which has to be served by each dairy. The quantity of milk produced has to be accepted by the dairies at fixed market prices. Since the supply of milk is rather stable except for seasonal variations, existing capacities are always not fully utilized. In order to make up for this difference dairies could buy milk from other areas, however, usually at excess prices only.

In this particular case, the company complains about the insufficient quality of fresh milk supplied on behalf of the national association of milk processing enterprises.

Moder Products Soft cheese and heavy cream.

Total annual production amounted to 800 t of soft cheese and 150 t of heavy cream based on 1-shift operation.

Reporting Units:

A one-establishment enterprise, privately owned, founded in 1910. Favourably located with respect to milk supply and consumer markets. Company reduced its product-mix to two kinds of soft cheese. Specialised in the production of camembert. Exports are promoted. 52 employees.

I. FIXED CAPITAL ASSETS

	Original purchase value 1960 US \$)	Repre- sent- ative value 1960 US \$)	Avg. (Vrs.)
1. Primary process equipment (including installation cost)			
- TOTAL	142	175	
- Process equipment "	142	175	5
- Hand tools & apparatuses	-	-	-
2. Buildings			
- TOTAL	146	553	
- Primary industrial buildings (total floor space: 370 m ²)	129	464	57
- Auxiliary buildings	2	4	40
- Warehouses	-	-	-
- Office administration buildings	-	-	-
- Housing	15	85	..
3. Auxiliary facilities (excl. buildings)			
- TOTAL	65	99	
- Internal power equipment (fountain)	1	4	..
- Steam plant	9	27	30
- Laboratory facilities	2	4	3
- Means of transportation	48	58	2
- Office equipment	5	6	3
TOTAL PHYSICAL FIXED ASSETS (including land)	353	827	
4. Other fixed capital assets			
- TOTAL	10	33	
- Land (total acreage: 3,195 m ²)	2	9	-
- Land improvements 8,933 ")	8	24	-
- Others	-	-	-

**NB Details of process equipment and capacity of primary evaporative stage are given on Page three (Section VIII.)*

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	fair
	local and city	excellent
Utilities:	electricity	fair
	water	excellent
	gas	insignificant
Community:	residence	fair
	health and recreation	fair
	education	fair
Open Welfare Facilities:		-

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(End of 1967)

Inventories	Value M\$B US \$	Number of months
TOTAL:	45	—
- Production materials	1	—
- Other input materials	13	1
- Work-in-process	31	15 days
- Finished products	—	—

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	
- Shift hours/day:	(*) 7.5	-	-	hours
- Actual hours/year:	2,340	-	-	hours
- Actual employees:	274	-	-	days
(*) Normal: actual: 8.2 hrs				

II. MONTHLY GROSS WAGES AND SALARIES

Chapter of government

(1967 monthly average)						
	up to 100	100 - 140	140 - 160	160 - 240	240 - 560	over 560
	US\$	US\$	US\$	US\$	US\$	US\$
1. Local non-operatives						
- Managers	-	-	-	-	1	-
- Engineers	-	-	-	-	-	-
- Technicians	-	-	-	-	-	-
- Accountants	-	-	-	-	1	-
- Sales officers	-	-	-	-	1	-
- Clerks and typists	-	-	-	2	-	-
2. Local operatives						
- Supervisors	-	-	-	-	-	-
- Foremen	-	-	-	-	2	-
- Skilled operatives	-	-	-	3	-	-
- Machine operators	-	-	18	10	-	-
- Craftsmen	-	-	-	6	-	-
- Truck drivers	-	-	-	3	-	-
- Unskilled operatives	-	-	4	-	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-
- Masters	-	-	-	-	1	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

IV. MAXIMUM TABLE

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Skills categories: A: Supervisory staff and foremen (for all shifts)
 B: Skilled operatives
 C: Semi-skilled operatives (machine operators)

	Total	A	For Sales			2nd Market	3rd Market
			8	6	6	6-6	6-6
ALL SHOPS & UNITS:	<u>52</u>	<u>9</u>	<u>43</u>				
1. Primary operative shops	<u>33</u>	<u>2</u>	<u>3</u>	<u>28</u>	<u>-</u>	<u>-</u>	<u>-</u>
- Pasteurisation and standardisation	1	-	1	-	-	-	-
- Cheese manufacturing	22	2	2	18	-	-	-
- Salt bath and maturation	2	-	-	2	-	-	-
- Packaging	8	-	-	8	-	-	-
2. Auxiliary operative units	<u>14</u>	<u>2</u>	<u>12</u>				
- Repair & maintenance	5	-	5				
- Mechanical shop	-	-	-				
- Tooling shop	-	-	-				
- Utilities control	1	1	-				
- Product & material storage	-	-	-				
- Off-site transport	3	-	3				
- Guards, cleaners, etc.	4	-	4				
- Heating	1	1	-				
3. Auxiliary non-operative units	<u>5</u>	<u>5</u>	<u>-</u>				
- Production management	1	1	-				
- Research & development	-	-	-				
- Sales unit	3	3	-				
- Accounting	1	1	-				
- General administration	-	-	-				

V. ANNUAL PRODUCTION

(1967)		Vr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price on factory (\$/kg)	Total output value (\$/kg US \$)
Soft cheese:		1910	t	800	1,016	813
- Camembert						
- Brie cheese						
- Gervais						
Heavy cream		1910	t	288	361	104
TOTAL VALUE OF PRODUCTION:						917

VI. VALUE ADDED

(1967)		Total value (\$/kg US \$)
1. Annual wages & salaries		
- Operative workers	61	80
44 persons		
- Non-operative workers	19	
8 persons		
2. Other payments for employees		18
3. Annual depreciation		54
- Machinery & equipment	21	
- Buildings & other facilities	32	
- Non-physical capital assets	1	
4. Rentals paid		-
5. Interest & royalties		3
6. Sales tax		14
7. Other indirect business taxes (Payroll tax, and tax)	8	
8. (-) Subsidies		-
9. Corporate income before tax		59
TOTAL VALUE ADDED:		236

DESCRIPTION OF MAJOR PRODUCTS:

Packaging units: Camembert: 320 g
Brie cheese: 100 g, with a fat-content of either 45% or 55%.
Gervais: 100 g, with a fat-content of 65%.

Taste: Somewhat between French and German camembart.

Cream is sent to a dairy for further processing.

Soft cheese is transportable up to 10 days at a maximum temperature of 5°C, provided this temperature is not interrupted.
At optimal cooling conditions soft cheese can be kept up to 7 - 8 weeks.

Up to 5 t of soft cheese can be supplied within 20 days.

MARKET ASPECTS:

Re-sales:

Whole milk powder, butter, and skim milk powder were sold totalling US \$ 89,000.

Consumers of products:

Households, hotels and restaurants.

Sales organization:

80% of the goods manufactured are marketed by regional and national associations of milk processing enterprises; the remaining 20% is sold to consumers by 2 representatives.

Competition in the market:

Domestic prices are fixed prices as recommended by the company. Prices for imported cheese are substantially higher.

Share in the domestic market:

2% of the annual national production of cheese which amounts to 37,000 t. However, the company produces about 70% of the Camembert manufactured in this country.

EXPORT:

Total annual export: US \$ 16,000

Major products	To Western Europe	To Other countries	To Overseas countries
Camembert	-	-	100%

Export price policy:

Since cheese is mainly exported by the national association of milk processing enterprises, very little is done by individual establishments to promote exports and to develop an export price policy.

Governmental policies:

The government subsidises exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)		Quantity consumed Unit	Quantity	% import	Amount import duty	Total consumption value (\$/kg US \$)
1. Energy and water						
TOTAL:						13
- Electricity	000 kWh	221			6	6
- Lignite	t	449			5	5
- Coke	t	68			2	2
2. Production materials						513
TOTAL:						513
- Milk	000 l	7,000				513

3. Other materials & supplies

TOTAL:		Total consumption value (\$/kg US \$)
- Packaging material (aluminium foil, cardboard boxes, corrugated cardboard boxes)	109	126
- Parts, supplies & services	11	
- Other materials & supplies	6	

4. Business services purchased

TOTAL:		Total consumption value (\$/kg US \$)
- Transportation, storage & insurance	17	29
- Communication, advertising & other business services	12	

5. Work performed by subcontractors

TOTAL:		Total consumption value (\$/kg US \$)
		-

TOTAL VALUE OF CONSUMPTION: 601

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- | | | |
|---|---------------------------------------|----------------------------------|
| Type of services: | | |
| 1. Engineering study | 5. Technical and managerial personnel | 8. Import and export transaction |
| 2. Financial assistance | 6. Industrial training | 9. Admission of foreign labour |
| 3. Industrial services | 7. Technical consultancy | |
| 4. Equipment supply, installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project
1				The enterprise is interested in preparing engineering studies for the production of soft cheese.
3				Interest is reported to furnish know-how contracts concerning the planning of the plant, production processes and marketing.
4				Addresses of suppliers of machinery and equipment necessary for the production of soft cheese could be procured.
5				Dairy experts could be made available on short-term basis only.
7				Trouble-shooting advisory service could be rendered.
9				The establishment is prepared to employ and train foreign labourers on short-term contracts.

XIII. SUPPLEMENTS & NOTES

Inventory policies:

Since raw materials and finished products get spoilt rather quickly, the dairy does not keep any such products on stock.

Government policies:

Market regulations as decreed by the national government determine the size of the area which has to be served by each dairy. The quantity of milk produced has to be accepted by the dairies at fixed market prices. Since the supply of milk is rather stable except for seasonal variations, existing capacities are always not fully utilized. In order to make up for this difference dairies could buy milk from other areas, however, usually at excess prices only.

Major Products: Fresh milk, butter, cheese, whey, curd, cassia, fodder, etc.
Full-capacity output amounts to US \$ 20.5 million based on 2- and 3-shift operation.

Reporting Unit: A one-establishment enterprise; founded in 1881; privately owned. Originally founded as a dairy, later expanded by cheese, cassia, powdered milk and milk sugar manufacturing plants; 540 employees; 10% exports.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1966 US \$)	Replace- ment value (1966 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL:	1,253	1,519	
- Process equipment *	1,219	1,477	..
- Hand tools & apparatuses	34	42	..
2. Buildings	1,299	1,536	
- Primary industrial buildings (total floor space: 17,300 m ²)	370	432	..
- Auxiliary buildings	216	245	..
- Warehouses	454	547	..
- Office/administration buildings	166	196	..
- Housing	93	116	..
3. Auxiliary facilities (excl. buildings)	404	492	
TOTAL:	404	492	
- Internal power equipment	173	213	8
- Laboratory facilities	21	25	3
- Means of transportation	169	205	4
- Office equipment	41	49	3
TOTAL PHYSICAL FIXED ASSETS (excluding land):	2,956	3,547	
4. Other fixed capital assets	360	459	
TOTAL:			
- Land (total acreage: 61,000 m ²)	42	75	-
- Land improvements			
- Others	318	384	5

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	Up to 125 US\$	125- 160 US\$	160- 200 US\$	200- 300 US\$	300- 1,000 US\$	over 1,000 US\$
--	----------------------	---------------------	---------------------	---------------------	-----------------------	-----------------------

1. Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists

2. Local operatives

- Supervisors
- Foremen
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

Company considers both supervisors and foremen as local non-operatives.

Incl. in "Other full-time operatives".

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

IV. MANNING TABLE (Number of persons)
Skill categories:
 A. Supervisory staff and foremen (for all shifts)
 B. Skilled operatives
 C. Semi-skilled operatives (machine operators)
 D. Unskilled operatives

(End of 1967)

ALL SHOPS & UNITS:

Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
-------	---	---	---	---	-----------	-----------	-----------

1. Primary operative shops

200	14	5	16	104	35	26
-----	----	---	----	-----	----	----

- Milk processing department
- Butter production dept.
- Cheese production dept.
- Milk powder production dept.

2. Auxiliary operative units

202	25	177	-	-
-----	----	-----	---	---

- Repair & maintenance
- Mechanical shop
- Tooling shop
- Utilities control
- Product & material storage
- Off-site transport
- Guards, cleaners, etc.
- Others

3. Auxiliary non-operative units

140	136	4	-	-
-----	-----	---	---	---

- Production management
- Research & development
- Sales unit
- Accounting
- General administration

III. INVENTORIES

(End of 1967)

	Actual value (1966 US \$)	Number of months
Inventories	624	
TOTAL:	624	
- Production materials	33	-
- Other input materials	229	0.5
- Work-in-process	53	0.2
- Finished products	309	0.1

V. WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift
Shift hours/day	8	8	8
Actual hours/year	2,283	2,283	2,283
Actual days/year	281	281	281

hours

days

V. ANNUAL PRODUCTION

(1967)

Product by group of products

	Vt. of first prod.	Quantity produced	Avg. unit price at factory (US \$)	Total output value (1000 US \$)
	Unit	Quantity		
Fresh milk and whey	t	11,363	63,820	725
Butter (*)	t	3,753	1,948.3	7,312
Cheese, curd, etc.	t	1,323	566.1	749
Casein	t	1,374	1,125.9	1,547
Milk and whey products (**)	t	12,424	395	4,907
Fodder	t	5,022	394.7	1,982
By-products	..	..	252	
Others	..	..	1,504	

(*) The rather high average unit price results from sales of butter packed in miniature units.

(**) Skimmed milk powder, silk sugar and powdered whey.

TOTAL VALUE OF PRODUCTION: 18,930

VI. VALUE ADDED

(1967)

	Total value (1000 US \$)
1. Annual wages & salaries	
- Operative workers	957
1. 367 personnel	
- Non-operative workers	570
1. 175 personnel	
2. Other payments for employees	265
3. Annual depreciation	504
- Machinery & equipment	348
- Buildings & other facilities	104
- Non-physical capital assets	52
4. Rentals paid	
5. Interest & royalties	73
6. Sales tax	160
7. Other indirect business taxes	89
8. (-) Subsidies	165
9. Corporate income before tax	-
TOTAL VALUE ADDED:	3,480

DESCRIPTION OF MAJOR PRODUCTS:

No details available.

MARKET ASPECTS:

Re-sale:

All kinds of food, which is sold in company-owned retail stores.

Consumers of products:

Final consumers, silk and whey processing establishments.

Sales organisation:

Milk, butter, cheese, curd, etc: direct selling in own retail stores as well as distribution through independent representatives, wholesalers and retailers. Dry products: partly direct selling, partly through representatives or independent sales organisations.

Share in the domestic market:

Butter: 1 - 1.5%; milk sugar: 60 - 70%; casein: 40%; powdered whey: 25%.

Competition in the market:

Competing companies grant special discounts to retailers.

EXPORT:

Total annual export: US \$ 1,750,000.

Major products	To Western Europe	To Eastern Europe	To Developing countries
Milk sugar	85%	-	15%
Powdered skimmed milk	100%	-	-
Powdered whey	50%	50%	-
Cheese	100%	-	-

Export price policy:

Adjustment to world market prices.

VII. ANNUAL CONSUMPTION

(1967)

1. Energy and water

	Quantity consumed	% Import	Average import value	Total consumption value (1000 US \$)
	Unit	Quantity		
TOTAL:				346
- Electricity and water	..			30
- Coal }	t	..		316
- Fuel oil				

2. Production materials

	Quantity consumed	% Import	Average import value	Total consumption value (1000 US \$)
	Unit	Quantity		
TOTAL:				13,303
- Milk, Skimmed milk, whey	t	136,743		10,060
- Others	t	39,815		3,243

3. Other materials & supplies

	Total consumption value (1000 US \$)
TOTAL:	662
- Packaging material (foils, paper cans, bottles)	453
- Parts, supplies & services	132
- Other materials & supplies	77

4. Business services purchased

	Total consumption value (1000 US \$)
TOTAL:	1,009
- Transportation, storage & insurance	26
- Communication, advertising & other business services	983

5. Work performed by subcontractors

	Total consumption value (1000 US \$)
TOTAL:	11

TOTAL VALUE OF CONSUMPTION: 15,450

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (S.I.)	Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Av. Age (yrs)	Remarks	Supplier country	Year of instal- lation	Daily running time	Capacity output
Automatic packing machines	2	15	19	2		Germany, F.R.	1967	9 hrs	2,800 units/hr
Evaporator	1	42	51	7		Germany, F.R.	1960	20 hrs	33 t water/hr
Drying rolls	2	33	43	4		Germany, F.R.	1965	12 hrs	180 kg water/hr
Drying plant	1	46	54	7		France	1963	22 hrs	650 kg water/hr
Silo for fodder mixing plant	1	63	75	2		Germany, F.R.	1966	-	-
Self-constructed special machines and fixtures	..	105	133	6	SC				
Other special machines	..	225	275	6					
Fork lift trucks	3	20	23	4					
Pneumatic conveyor belts	2	32	38	5					
Switch plant	1	54	62	10					
Storage tanks	8	19	22	8					
Self-constructed universal machines	..	140	170	6	SC				
Other universal machines	..	425	512	6					

CAPACITY POWER:

Process equipment:
 - electric motors kW 1,500
 - other prime movers " 200
 Generating equipment:
 - installed capacity kVA 2,500

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization		C. modern standard		Automation	
		A. most advanced	B. considerably high standard	D. apparently short of today's standard	E. almost unused	I. fully automated	J. un-automated
Milk processing department		B	II				
Butter production		C	II				
Cheese production		C	III				
Milk powder production		A	I				
Fodder mixing plant		A	I				

CAPACITY UTILIZATION:

Full-capacity output: US \$ 20,500,000

Current utilization: Based on 2-shift operation

Major products for present	Approximate %									
	10	20	30	40	50	60	70	80	90	100
Butter	x									
Cheese and curd		x								
Milk sugar			x							
Powdered skimmed milk			x							
Powdered whey			x							

Under-utilisation due to lack of demand. In order to reach full-capacity output another 18 operatives and 5 non-operatives would be required on the 1st shift and additional 6 operatives on the 2nd shift.

IX. HISTORY & PLAN

1. Performance in the past: Year: 1963	Total output 1960 US \$	No. of persons employed	No. of shifts	Total exports 1960 US \$			
				1964	1965	1966	1967
	10,390	450					
	11,380	471					
	13,510	502					
	15,770	525					
	18,930	533					
					

2. Investments in the past: 1965:	Approximate amount 1960 US \$	Type of investment		
		Machinery and buildings	..	..
1966:	667	"	"	"
1967:	883	"	"	"
1968:	632	"	"	"

3. Future Plan:

From 1969 to 1971: 2,250

Expansion of machinery and operative shops, rationalization of product-mix, machinery and processing methods, specialization of product-mix.

Additional operatives will then be employed: 1st shift: 8; 2nd and 3rd shift: 3 each.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1962)	Industry	Manufacture of dairy products	(ISIC-Code: 202)				
			C = confidential; figures of these size groups are included in total.				
1. Size groups by number of persons employed:	No. of empd.	No. of empd.	Av. W. & S. per pers. 1960 US \$	Av. sales per pers. 1960 US \$	Av. value added/value ratio (%)		
up to 19	1,842	11,392	1,587	45,345	15		
20 - 99	458	17,906	1,804	36,489	17		
100 - 199	51	6,841	1,875	29,920	20		
200 - 499	26	7,865	1,960	29,124	20		
500 - 999	3	C	C	C	C		
over 1,000	1	C	C	C	C		
TOTAL:	2,381	47,798	1,807	35,794	17		
2. Size groups by annual sales of	No. of empd.	No. of empd.	Av. W. & S. per pers. 1960 US \$	Av. sales per pers. 1960 US \$	Av. value added/value ratio (%)		
up to 1,250	2,066	18,117	1,724	39,201	10		
1,250 - 2,500	193	8,533	1,837	38,007	17		
2,500 - 6,250	96	10,523	1,865	33,790	18		
6,250 - 12,500	19	5,801	2,018	29,196	21		
12,500 - 25,000	4	1,565	2,069	35,615	18		
over 25,000	3	3,259	2,058	29,364	20		
TOTAL:	2,381	47,798	1,618	35,794	15		

<i>Страна</i>	<i>Классификация</i>	<i>Основные продукты</i>	<i>Том №</i>	<i>Страница</i>
Индия	: 339-(1)	Асбестоцементные изделия (листовой материал, плиты, трубы и т. д.)	II	636
Индия	: 339-(2)	Асбестоцементные изделия (листовой материал, плиты, трубы и т. д.)	II	638
Индия	: 339-(3)	Асбестоцементные изделия (листовой материал, плиты, трубы и т. д.)	II	640
Израиль	: 339-(1)	Асбестоцементные изделия (листовой материал, трубы и фасонные формы)	II	642
Израиль	: 339-(2)	Бетонные изделия (трубы, шпали, столбы и блоки)	II	644
Израиль	: 339-(3)	Сборные бетонные строительные детали и блоки	II	646
Израиль	: 339-(4)	Изделия из гипсового цемента (тепло- и звукоизоляционные блоки и сборные бетонные детали)	II	648
Израиль	: 339-(5)	Бетонные материалы для дорожного покрытия	II	650
Япония	: 339-(1)	Бетонные изделия	II	652
Япония	: 339-(2)	Бетонные изделия	II	654
Югославия	: 339-(1)	Бетонные изделия (столбы, шпали, плиты, блоки и т. д.)	II	656
Югославия	: 339-(2)	Бетонные изделия (шпали, столбы, трубы, плиты и т. д.)	II	657
Югославия	: 339-(3)	Бетонные изделия (шпали, столбы, плиты и т. д.)	II	658
Югославия	: 339-(4)	Асбестоцементные изделия (плиты, напорный трубопровод, трубы и т. д.)	II	659

ПРОКАТКА, ВОЛОЧЕНИЕ И ЛИТЬЕ ЧЕРНЫХ МЕТАЛЛОВ

Мексика	: 341-(1)	Прокатанные, волочильные, кованые и литье металлические изделия	III	1162
Франция	: 341-(1)	Кованые металлические изделия и готовые инструменты ..	I	200
Франция	: 341-(2)	Волочение (нержавеющая стальная проволока)	I	202
Индия	: 341-(1)	Чугунолитейный и сталелитейный завод с металлообрабатывающими и фрезерными цехами, производящими дробилки для тростника и электродвигатели	I	204
Индия	: 341-(2)	Сварные трубы, бесшовные трубы и холоднокатаные полосы	I	206
Индия	: 341-(3)	Чугунолитейный завод для машин и запчастей (краны с ручным приводом, полиспасты, автолебедки, вагонетки и т. д.)	I	208
Индия	: 341-(4)	Чугунолитейный и сталелитейный завод с машинным цехом, производящим инвентарь, строительные изделия, болты и гайки и т. д.	I	210
Израиль	: 341/350-(1)	Чугунолитейный завод с металлообрабатывающими цехами, производящими санитарно-техническую арматуру, бетономешалки, насосы и т. д.	I	212
Япония	: 341-(1)	Стальное литье и чугунные изделия из „механита“	I	214
Япония	: 341-(2)	Специальное чугунное и стальное литье	I	216
Япония	: 341-(3)	Чугунное литье (станины для станков, станины для двигателей)	I	218
Япония	: 341-(4)	Кованый чугун для автомобилей	I	220
Япония	: 341-(5)	Литые изделия из чугуна и стали (формы для заготовок, поддоны, пресс-формы и насосы)	I	222
Япония	: 341-(6)	Стальные плиты, трубы и рельсы	II	660
Япония	: 341-(7)	Стальные литые трубы и трубы большого диаметра	II	662
Югославия	: 341-(1)	Серый чугун и термически обработанное железо; также станки, арматура, кухонные плиты и т. д.	I	224

ПРОКАТКА, ВОЛОЧЕНИЕ И ЛИТЬЕ ЦВЕТНЫХ МЕТАЛЛОВ

Мексика	: 342-(1)	Производство очищенного сурьмяного свинца	III	1164
Центральная Европа	: 342-(1)	Алюминиевая фольга	III	1166
Франция	: 342-(1)	Изделия из прокатанного и вытянутого алюминия (плиты, листы, рулоны, фольга, заготовки и т. д.)	I	226
Франция	: 342-(2)	Медные и латунные трубы	I	228
Франция	: 342-(3)	Медные и латунные полосы	I	230
Франция	: 342-(4)	Медные и латунные трубы	I	232

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Engineering study	5. Technical and managerial personnel	8. Import and export transaction
2. Financial assistance	6. Industrial training	9. Admission of foreign labour
3. Industrial services	7. Technical consultancy	
4. Equipment supply, installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project
3				Provision of know-how and license agreements.
5				Provision of experts and other skilled personnel.
7				Company is prepared to render various technical consulting services.
8				Interest in intensifying exports of dry milk products to developing countries.

XIII. SUPPLEMENTS & NOTES

Contract and commission work:

Casein grinding amounting to US \$ 11,000 was performed by a subcontractor.

Major bottlenecks in the past:

Insufficient milk drying capacity; could be increased.

Current problems:

Quality improvements; rationalisation of production process.

Inventories policy:

On the average the value of finished products in stock amounts to 1.6% of the total value of production.

Training coverage:

Company delegates employees to external training and management development courses and seminars.

Major Products: Bottled olives, capers, olive oil, powdered soups, vinegar, etc.

Reporting Unit: A two-establishment enterprise founded in 1950.
Foreign capital participation 45% and local capital 55%.

I. FIXED CAPITAL ASSETS

(End of 1966)	Year of installa- tion	Orig. pur- chase value 1960 US \$	Replace- ment value 1960 US \$
1. Primary process equipment			
TOTAL:		240.0	283.2
- Process equipment		209.6	248.0
- Hand tools & apparatuses		6.4	7.2
- Cost of installation		24.0	28.0
2. Primary industrial building			
TOTAL:		80.0	104.0
(total floor space: 700 m ²)	1960	80.0	104.0
3. Auxiliary facilities			
TOTAL:		64.0	70.8
- Water, steam, electricity, cooling & storing		16.0	18.0
- Transportation facilities		18.4	20.8
- Administrative facilities		18.4	20.8
- Laboratory facilities		-	-
- Others		11.2	11.2
TOTAL PHYSICAL FIXED CAPITAL ASSETS <i>(including land):</i>		384.0	458.0
4. Other fixed capital assets			
TOTAL:		232.0	..
- Land (total acreage: 29,000 m ²)		232.0	..

DETAIL OF PROCESS EQUIPMENT (in):	Supplier country	Year of installa- tion	Orig. pur- chase value 1960 US \$	Replace- ment value 1960 US \$
Oil presses	Argentina	1960	48.0	57.6
Centrifuges and separators	Argentina	1960	11.2	14.4
Grinders	Argentina	1960	2.4	3.2
Boilers	Mexico	1964	12.0	12.8
Soup process equipment	France	1965	120.0	144.0
Miscellaneous	Spain	1954	16.0	16.0

HISTORY OF INVESTMENT:

The factories were constructed in 1954. The first trial as well as commercial production started in the same year. In 1956 approximately \$80,000 were invested for the expansion of the olives processing capacity. In 1960 approximately US \$ 40,000 were invested for the expansion of the olive oil processing and in 1965 US \$ 96,000 were invested for the expansion of the soup production.

CAPACITY POWER: Process equipment: - Electric motors:	Generating equipment: Installed capacity: - kVA
150	kW

EXTERNAL CONDITIONS:
Transport: Long distance, excellent; local area, fair.
Utilities: -
Community: Residential, health and recreational; educational, fair.

II. INVENTORIES AND WORKING CAPITAL

(End of 1966)	Actual value	2. Liquid assets	Actual value
1. Inventories		2. Liquid assets	
TOTAL	464.0	TOTAL:	405.1
- Production materials	432.0	- Cash (hand/bank)	35.3
- Other input materials	-	- Market, sec. & bonds	16.4
- Work-in-process	-	- Short-term investment	354.4
- Finished products	32.0	- Prepaid expenses	-
		- Accounts receivable	-
3. Desired working capital			
TOTAL:	400.7		
- Production materials	12	240.0	
- Other input materials	-	-	
- Finished products	6	32.0	
- Wages & salaries	3	56.7	
- Other special items	-	72.0	

III. MANNING TABLE

(1966 average)	Total	1st shift A	2nd shift B	3rd shift A+B
ALL SHOPS & UNITS:	114	114	-	-
1. Primary operative shops	100	20	80	-

Processing and canning
of olives and olive oil

Capers and soups

* A greater part is seasonal labour
(working some 3 months per year)

2. Auxiliary operative units

	2	2	-	-
- Repair and maintenance	1	1	-	-
- Mechanical shop	-	-	-	-
- Utilities control	-	-	-	-
- Product & material storage	1	1	-	-
- Off-site transport	-	-	-	-
- Guards, cleaners, etc.	-	-	-	-

3. Auxiliary non-operative units

	12	12	-	-
- Production management	1	1	-	-
- Research & development	1	1	-	-
- Sales unit	..	-	-	-
- General administration	10	10	-	-

WORKING TIME PER NON-SEASONAL OPERATIVE WORKER:

Normal hours/day:	9 hours	Normal days/year:	240 days
Actual hours/year:	2,096 hours		

CAPACITY OF OPERATIVE SHOPS:

The daily (6hr) maximum capacity of installed equipment is:
12 t of olives, 2.5 t of olive oil, 0.7 t of soup concentration,
and 0.2 t of vinegar. (Estimates based on one shift). The capacity
of process equipment is thus much greater than the current
production level.

Bottling and packing are not automated.

IV. ANNUAL PRODUCTION(1966)
Products (or group of products)

	Vr. of first prod.	Quantity produced	Normal capacity output *	Unit price on factory gate \$	Total production value 1000 US \$
	Unit	Output			
- Canned olives and capers	..	1	350	2,900	2.20/kg 770
- Olive oil	..	1	43	580	3.20/kg 138
- Powdered soups	..	1	2	170	1.60/kg 4
- Vinegar	000 1	3	12	0.48/l 1	

TOTAL VALUE OF PRODUCTION

913

* Assuming a 1 shift operation. Estimates based on nominal engineering specifications of the major machinery. These estimates are believed to be upward biased.

EXPORTS:

No exports. But the sales network is secured by a foreign-owned enterprise which is the major share-holder for this reporting firm.

CAPACITY UTILIZATION:

Capacity is underutilized due to shortage of the supply of raw material, which seasonally interrupt the operation.

V. ANNUAL CONSUMPTION

(1966)

1. Energy and water

TOTAL:

	Quantity consumed		Total consumption value
	Unit	Purchase	1000 US \$
- Electricity	000 Kwh	168	-
- Gas oil	000 m ³	5	-
- Water	000 m ³	6	-

7.1

2. Production materials

TOTAL:

	Quantity consumed		Total consumption value
	Unit	Purchase	1000 US \$
- Olives	t	720	-
- Capers	"	6	100
- Pepper	"	50	-
- Salt	"	50	-
- Miscellaneous			

439

3. Other materials & supplies

TOTAL:

	Quantity consumed	
	Unit	1000 US \$
- Packagings (bottles, boxes, etc.)		97
- Repair & maintenance		4
- Non-factor service inputs		7

108

4. Business services purchased

TOTAL:

	Quantity consumed	
	Unit	1000 US \$
- Transport, storage & insurance		21
- Communication, advertising, etc.		6

27

5. Work performed by sub-contractors

TOTAL:

	Quantity consumed	
	Unit	1000 US \$
		581.1

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Major Products:

Canned vegetables, fruits and fruit juices. The actual output is about 30 million cans, including contract and commission work on ½-shift operation. But the full-capacity output is said to be significantly higher than that.

Reporting Unit:

An old branch of a multi-establishment enterprise; owned by a private corporation, founded in 1924.
No participation of foreign capital.

I. FIXED CAPITAL ASSETS		Year of installa- tion	Orig. purchase value 1960 US \$	Replacement value 1960 US \$
(End of 1966)				
1. Primary process equipment				
TOTAL:			280	360
- Process equipment		..	280	360
- Hand tools & apparatuses		-	-	-
- Cost of installation		-	-	-
2. Primary industrial building				
TOTAL:		..	72	..
(total floor space: 30,000 m ²)			72	..
3. Auxiliary facilities				
TOTAL:			344	544
- Water, steam, electricity, cooling & storing		-	-	-
- Transportation facilities		..	168	336
- Administrative facilities		..	176	208
- Laboratory facilities		-	-	-
TOTAL PHYSICAL FIXED CAPITAL ASSETS			696	..
(including land):			-----	-----
4. Other fixed capital assets				
TOTAL:			120	..
- Land (total acreage: 42,000 m ²)		-	120	..
DETAIL OF PROCESS EQUIPMENT (in):	Supplier country	Year of installa- tion	Orig. purchase value 1960 US \$	Replacement value 1960 US \$
<u>Canning line system</u>				
a. Precookers				
b. Filling machines				
c. Closing and sealing machines	USA			
d. Autoclaves	and	1955	280	360
e. Conveyor-belts	FR. Germ.			
f. Labelling machines				
g. Fruit-washing machines				

HISTORY OF INVESTMENT:

This branch-establishment was constructed and began commercial production in 1955; in 1966 approximately \$640,000 were invested for the expansion of the canning facilities but this sum is not reflected in the above data. The production in the first year (1955) was already profitable at 15% of the current production level.

CAPACITY POWER:		Generating equipment:	
Process equipment:		Installed capacity	
Electric motors:	700 ^a kW		kVA
& rough estimate			

SATELLITE CONDITIONS:

TRANSPORT CONDITIONS:
Transport: Long distance, fair; local area, excellent.

Utilities: Electricity and gas, excellent; water, fair.

Community: Residential, health and recreational facilities, fair.

II. INVENTORIES AND WORKING CAPITAL

Page 10

(End of 1966)		Actual value	
1. Inventories		2. Liquid assets	
TOTAL:	<u>1,075</u>	TOTAL:	<u>5,800</u>
- Production materials	27	- Cash (hand/bank)	80
- Other input materials	160	- Market. sec. & bonds	640
- Work-in-process	416	- Short-term investment	136
- Finished products	472	- Prepaid expenses	672
		- Accounts receivable	4,272
 3. Desired working capital		Number of months	Value
TOTAL:			<u>-</u>
- Production materials			
- Other input materials			
- Finished products			
- Wages & salaries			
- Other special items			

III. MANNING TABLE (1966 average)	(number of persons)	A = Machine operators		
		B = Other operators		
	Total	1st shift A	2nd shift A+B	3rd shift A+B
ALL SHOPS & UNITS:	701	614	71	16
1. Primary operative shops	200	105	20	65
Canning line system*	200	105	20	65

- * The primary operative shops for washing, precooking, filling, closing, sealing, labelling of food products are integrated into a "canning line system". An allocation of machine operators by component process is therefore not significant.

2. Auxiliary operative units	118	106	6	6
- Repair and maintenance	19	19	-	-
- Mechanical shop	2	?	-	-
- Utilities control	7	7	-	-
- Product & material storage	72	72	-	-
- Off-site transport	-	-	-	-
- Guards, cleaners, etc.	18	6	6	6

3. Auxiliary non-operative units	<u>383</u>	<u>383</u>	<u>-</u>	<u>-</u>
- Production management	1	1	-	-
- Research & development	5	5	-	-
- Sales unit	170	170	-	-
- General administration	207	207	-	-

WORKING TIME FOR OPERATIVE WORKERS

- Normal hours/day: 8 hours - Normal days/year: 283 days
- Actual hours/year: 2,264 hours

CAPACITY OF OPERATIVE SNOW:

The utilization of the capacity (canning line system) is influenced considerably by the orders received from contractors; over 50% of the productive revenues consist of commissions.

IV. ANNUAL PRODUCTION

(1966)

Product by group of products

	Yr. of first prod.	Quantity produced	Nominal capacity output	Unit price at factory US \$	Total * production value US \$ US \$
		Unit	Output		
- Chili products	..	000 cans	3,786.1	..	1,100 416.0
- Other canned vegetable products	..	" "	1,961.1	..	1,800 353.0
- Canned fruits	..	" "	589.3	..	500 295.0
- Tomato products	..	" "	3,324.3	..	800 266.0
- Fruit juices	..	" "	1,629.1	..	900 147.0
- Other products	..	" "	3,482.0	..	.. 684.0
- Revenue from contract and commission work					3,440.0
- Net change in inventories					(+) 1,075.0
TOTAL VALUE OF PRODUCTION					6,676.0

* The quantity and the value of production here represent the annual sale.
The total value of production is therefore adjusted for the net change in
inventory.

CONTRACT AND COMMISSION WORK:

Canning and packaging of tuna, abalone, shrimps, champignons (hongos de México) and other food products is performed in the form of contract and commission work. The so-called contractors are mostly other branch establishments of the same parent enterprise.

EXPORTS: None

CAPACITY UTILIZATION:

The production capacity is considered as being under-utilized, due to insufficient orders, as well as seasonal supply of raw materials. The nominal capacity output is not available.

V. ANNUAL CONSUMPTION

(1966)

1. Energy and water

TOTAL:

	Quantity consumed		Total consumption value US \$ US \$
	Unit	Per cent	
- Electricity	000 Kwh	701	- 14
- Gas	000 m ³	..	- 8
- Water	000 e ³	..	- 6

2. Production materials

TOTAL:

	Quantity consumed		Total consumption value US \$ US \$
	Unit	Per cent	
- Tomatoes	000 t	1,687	- 54
- Chili	" "	338	- 32
- Sugar	" "	300	- 36
- Chicare	" "	276	- 36
- Vegetables of various kinds	" "	174	- 10
- Fruits	" "	1,413	- 136
- Other raw materials	" "	226	- 40

VI. VALUE ADDED

(1966)

VI. VALUE ADDED

	Value US \$ US \$
1. Wages & salaries	
- Employees in direct production (318 persons)	360
- Other employees (383 persons)	1,200
2. Other payments for employees	100
3. Annual depreciation	64
4. Rentals paid	160
5. Interest & royalties	280
6. Sales tax (not incl. in TOTAL)	(136)
7. Other ind. bus. taxes	16
8. (-) Subsidies	-
9. Corporate income before tax	256
	2,736

VII. MONTHLY EARNING RATES

(End of 1966)

1. Local non-operatives

TOTAL:	No. of empl.	Average earning per month US \$
	346	296
- Managers	10	1,760
- Engineers	6	600
- Technicians	7	240
- Accountants	9	560
- Sales officers	120	300
- Other professional staff	15	320
- Clerks & typists	179	178

2. Local operatives

TOTAL:	No. of empl.	Average earning per month US \$
	118	126
- Supervisors	-	-
- Foremen	-	-
- Machine operators	-	-
- Craftsmen	28	144
- Truck drivers	-	-
- Other full-time operatives	90	120
- Unskilled & part-time operatives	-	-

3. Foreign employees

TOTAL:	No. of empl.	Average earning per month US \$
- Managerial staff	5	1,040

	Total consumption value US \$ US \$
3. Other materials & supplies	1,750
TOTAL:	
- Packagings (boxes, cans, labels, etc.)	1,496
- Repair & maintenance	160
- Non-factor service inputs	104
4. Business services purchased	
TOTAL:	1,808
- Transport, storage & insurance	1,528
- Communication, advertisements, etc.	1,280
5. Work performed by sub-contractors	
TOTAL:	-
	3,940

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group: Canning and preserving of fruits & vegetables (ISIC: 203)

1. Size groups by
number of persons
employed

Number of empl.	Number of firms	Number of firms	Avg. per firm	Avg. per firm	Avg. empl. firms
up to 5	26	97	448	2,398	70
over 5	135	21,584	528	3,979	88

2. Size groups by
value of annual production
US \$ US \$

Value of annual prod. US \$	Number of firms	Number of firms	Avg. per firm	Avg. per firm	Avg. empl. firms
up to 2	26	80	18	302	231
2 - 8	24	127	218	1,006	101
8 - 120	52	1,249	352	1,655	119
over 120	84	20,272	542	4,140	87
TOTAL	161	21,781	529	3,970	88

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

Governmental policies: No particular observations.

Future plan:

Within the next 3 years (1967-1970), approximately US \$ 400,000 will be invested for the installation of a faster and more automated production line. No additional non-years are envisaged.

Major Products: Fruits and vegetables canning and bottling.

Capable of processing about 10,000 t annually based on 3-shift operation. Full-capacity output amounts to US \$ 5.5 million.

Reporting Unit: A one-establishment enterprise, privately owned; founded in 1960; 570 employees. One of the largest companies in this branch; own research activities; favourably situated in one of the major fruits and vegetable producing regions of the country. 76% exports. Business year: 1 May 1966 - 30 April 1967.

I. FIXED CAPITAL ASSETS

	Original purchase value (1960 US \$)	Replace- ment value (1960 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL:	1,519	..	
- Process equipment	1,429	..	3
- Hand tools & apparatuses	90	..	-
2. Buildings			
TOTAL:	1,196	..	
- Primary industrial buildings (total floor space: 3,557 m ²)	372	..	7
- Auxiliary buildings	103	..	7
- Warehouses	458	..	7
- Office administration buildings	190	..	6
- Housing	73	..	6
3. Auxiliary facilities (excl. buildings)			
TOTAL:	229	..	5
- Internal power equipment	78	..	7
- Laboratory facilities	15	..	5
- Means of transportation	82	..	3
- Office equipment	54	..	6
TOTAL PHYSICAL FIXED ASSETS (excluding land):	2,944	..	
4. Other fixed capital assets			
TOTAL:	253	..	
- Land (total acreage: 61,378 m ²)	252	..	-
- Land improvements (t.s.e.r. 260 ")	1	..	-
- Others	-	-	-

*NB. Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

	(196 monthly average)					
	Up to	US\$	US\$	US\$	US\$	US\$
1. Local non-operatives						
- Managers						
- Engineers						
- Technicians						
- Accountants						
- Sales officers						
- Clerks and typists						
2. Local operatives						
- Supervisors						
- Foremen						
- Skilled operatives						
- Machine operators						
- Craftsmen						
- Truck drivers						
- Unskilled operatives						
- Other full-time operatives						
- Part-time operatives						
3. Foreign employees						
- Managerial staff						
- Technical staff						
- Other skilled operatives						
- Unskilled operatives						

No data available.

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	excellent
	local and city	"
Utilities:	electricity	insignificant
	water	excellent
	gas	-
Community:	residence	fair
	health and recreation	excellent
	education	fair
Own Welfare Facilities:	-	

IV. MANNING TABLE

(Number of persons)

	(1967 summer)					
	Total	A	B	C	D	E
ALL SHOPS & UNITS:						
1. Primary operative shops	402	4	30	45	129	180
- All primary operative departments	402	4	30	45	129	180

Skill categories:
 A: Supervisory staff and foremen (for all shifts)
 B: Skilled operatives
 C: Semi-skilled operatives (machine operators)
 D: Unskilled operatives

V. INVENTORIES

(End of 1967)

	Actual value (1960 US \$)	Number of months
Inventories		
TOTAL:	1,916	
- Production materials	313	1
- Other input materials	3	3
- Work-in-process	-	-
- Finished products	1,600	4

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	Hours
- Shift hours/day:	8	8	3.8	hours
- Actual hours/year:	2,205	2,205	1,050	hours
- Actual days/year:	276	276	276	days

	91	91	-	-	-	-
	6	6	-	-	-	-
2. Auxiliary operative units	82	10	20	20	36	
- Repair & maintenance	27	3	6	6	12	
- Mechanical shop	-	-	-	-	-	
- Tooling shop	-	-	-	-	-	
- Utilities control	10	4	3	3	-	
- Product & material storage	20	2	4	4	10	
- Off-site transport	7	1	2	2	2	
- Guards, cleaners, etc.	18	-	5	5	8	
3. Auxiliary non-operative units	91	91	-	-	-	-
- Production management	6	6	-	-	-	-
- Research & development	3	3	-	-	-	-
- Sales unit	49	49	-	-	-	-
- Accounting	18	18	-	-	-	-
- General administration	15	15	-	-	-	-

(*) Including 50 seasonal workers.

V. ANNUAL PRODUCTION

(1967)

Product by group of products

Canned baby food
Specialities
Fruit
Soups
Processed food
Jams, marmalade and juices
Salads
Vegetables
Pickled vegetables
Frozen food
Export products

Wt. of
first
prod.
UnitQuantity produced
Quantity
1960/61Av. unit
price or
factory
output
value
1000 US \$
1000 US \$Total (*)
value
1000 US \$
1000 US \$

(*) free delivery

TOTAL VALUE OF PRODUCTION: 5,445

VI. VALUE ADDED

(1967)

Total
value
1000 US \$

	Total value 1000 US \$
1. Annual wages & salaries	918
- Operative workers	610
1 425 persons	
- Non-operative workers	308
1 100 persons	
2. Other payments for employees	181
3. Annual depreciation	224
- Machinery & equipment	173
- Buildings & other facilities	38
- Non-physical capital assets	13
4. Rents paid	51
5. Interest & royalties	74
6. Sales tax	277
7. Other indirect business taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	375

TOTAL VALUE ADDED: 2,100

DESCRIPTION OF MAJOR PRODUCTS:

All products: Serial production.

Packing units: Cans, glasses, and various large packages of frozen food weighing between 2.5 - 40 kg; 12 or 24 units/carton.

Terms of delivery: 3 - 4 days.

MARKET ASPECTS:

Marketing:

Canned vegetables, fruits and meat; baby food, ketchup, frozen vegetables, frozen processed food.

Customers of production:

Restaurants, canteens, households.

Sales organization:

Sales representatives for households as well as for large-scale customers.

Share in the domestic market:

Approximately 30% of industrially processed fruits and vegetables.

Ketchup: 76%.

Company belongs to one of the four largest enterprises of this industry in the country.

Competition in the market:

Domestic prices are almost equal. Export prices are adjusted to foreign price level. Similar qualities at home and abroad.

EXPORT:

Total annual export: US \$ 1,355,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Frozen food	100%	-	-
Pickled vegetables	100%	-	-
Canned vegetables	100%	-	-
Ketchup	50%	50%	-

The establishment has the highest export ratio of the fruit and vegetable processing industry in the country.

VII. ANNUAL CONSUMPTION

(1967)

Quantity consumed
Unit QuantityAverage
import
dates
(000 US \$)Total consumption
value
1000 US \$

1. Energy and water (*)

TOTAL:

- Electricity 000 kWh 1,830
- Fuel .. 45
- Oil .. 29
- Gas (for heating) 000 cu m .. 29
- Water 000 cu m 370 0.04

183

20

Total
consumption
value
1000 US \$

3. Other materials & supplies

TOTAL:

- Packaging material (glasses, bottles, cans, labels, cartons) 1,124
- Parts, supplies & services 1,009
- Other materials & supplies 21
- Other materials & supplies 24

1,124

1,009

21

24

4. Business services purchased

TOTAL:

- Transportation, storage & insurance 414
- Communication, advertising & other business services 115
- Communication, advertising & other business services 299

414

115

299

5. Work performed by subcontractors

TOTAL:

TOTAL VALUE OF CONSUMPTION: 3,345

(*) 2,660,000 cu m of steam are internally supplied.



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<i>Страна</i>	<i>Классификация</i>	<i>Основные продукты</i>	<i>Том №</i>	<i>Страница</i>
Франция	: 342-(5)	Литые изделия из цветного металла	II	664
Франция	: 342-(6)	Литые изделия из сплава меди и алюминия	II	666
Индия	: 342-(1)	Прокат из меди, медных сплавов, алюминия и алюминиевых сплавов	I	234
Индия	: 342-(2)	Слитки алюминия	I	236
Индия	: 342-(3)	Листы, полосы, диски, обручи и проволока из алюминия и меди	II	668
Израиль	: 342-(1)	Прокат алюминия (фольга, листы, полосы и диски)	I	238
Израиль	: 342/350-(2)	Трубы и профили из алюминия, а также окна и двери, изготовленные из профильного алюминия	I	240
Япония	: 342-(1)	Бруски, стержни, проволока, трубы малых и больших диаметров из меди и латуни	I	242
Югославия	: 342-(1)	Прокат и волочение из цинка и латуни (листы, полосы, бруски, проволока, трубы и т.д.)	I	244
Югославия	: 342-(2)	Волочение и литье цинка, меди и других цветных металлов	I	245
Югославия	: 342-(3)	Прокат, волочение и горячая штамповка алюминия и сплавов (листы, полосы, бруски, проволока, трубы большого диаметра, муфты и т.д.)	I	246
Югославия	: 342-(4)	Изделия из вытянутых цветных металлов (проводка в изоляционной оплётке, изделия из меди и медных сплавов, алюминиевые и стальные троны)	II	670

**ПРОИЗВОДСТВО МЕТАЛЛИЧЕСКИХ ИЗДЕЛИЙ, НЕ ОТНОСЯЩИХСЯ
К РАЗРЯДУ МАШИННОГО И ТРАНСПОРТНОГО ОБОРУДОВАНИЯ**

<i>Восточная Африка</i>	<i>: 350-(1)</i>	<i>Проволочные гвозди</i>	<i>III</i>	<i>1170</i>
<i>Восточная Африка</i>	<i>: 350-(2)</i>	<i>Производство эмалированной посуды (изделия для домашнего обихода)</i>	<i>III</i>	<i>1172</i>
<i>Сальвадор</i>	<i>: 350-(1)</i>	<i>Медная и алюминиевая проволока</i>	<i>III</i>	<i>1174</i>
<i>Мексика</i>	<i>: 350-(1)</i>	<i>Стальные угольники, болты, гайки, прутковая сталь, баки, стойки и т. д.</i>	<i>III</i>	<i>1176</i>
<i>Мексика</i>	<i>: 350-(2)</i>	<i>Трос, проволока и проволочные изделия</i>	<i>III</i>	<i>1178</i>
<i>Мексика</i>	<i>: 350-(3)</i>	<i>Жестяные консервные банки</i>	<i>III</i>	<i>1180</i>
<i>Мексика</i>	<i>: 350-(4)</i>	<i>Стальная формовочная дробь (из стальной проволоки)</i>	<i>III</i>	<i>1182</i>
<i>Центральная Европа</i>	<i>: 350-(1)</i>	<i>Банки, банки с нажимными крышками и другие емкости разового использования</i>	<i>III</i>	<i>1184</i>
<i>Центральная Европа</i>	<i>: 350-(2)</i>	<i>Эмалированная мединая проволока</i>	<i>III</i>	<i>1188</i>
<i>Центральная Европа</i>	<i>: 350/360-(3)</i>	<i>Фасонная сталь различных типов, резонансные вибраторы, трубчатые конвейеры, ленточные конвейеры и роликовая опора конвейеров</i>	<i>III</i>	<i>1192</i>
<i>Центральная Европа</i>	<i>: 350/360-(4)</i>	<i>Котлы, стальные мосты, гидравлические стальные пролетные строения, оборудование для театральной сцены, аппараты, баки, напорный трубопровод, баллоны высокого давления, краны, канатная дорга, фуникулер, стальная отливка из серого чугуна и т. д.</i>	<i>III</i>	<i>1196</i>
<i>Центральная Европа</i>	<i>: 350/360-(5)</i>	<i>Оросительное и сельскохозяйственное оборудование, стальные профили</i>	<i>III</i>	<i>1200</i>
<i>Франция</i>	<i>: 350-(1)</i>	<i>Штампованные металлические изделия, инструменты и сигнальные устройства</i>	<i>I</i>	<i>248</i>
<i>Франция</i>	<i>: 350-(2)</i>	<i>Стальные и алюминиевые провода и кабели (из прутковой стали)</i>	<i>I</i>	<i>250</i>
<i>Франция</i>	<i>: 350-(3)</i>	<i>Готовые металлические части для автомобилей и предметы домашнего обихода</i>	<i>I</i>	<i>252</i>
<i>Франция</i>	<i>: 350-(4)</i>	<i>Радиаторы различных типов</i>	<i>I</i>	<i>254</i>
<i>Франция</i>	<i>: 350-(5)</i>	<i>Арматура для окон и дверей</i>	<i>I</i>	<i>256</i>
<i>Франция</i>	<i>: 350-(6)</i>	<i>Проволока (оцинкованная, в медной оплётке, отпущенная, с обмоткой и т. д.) и проволочные изделия (решетки для заборов, сварные сетки и т. д.)</i>	<i>I</i>	<i>258</i>

Страна	Классификация	Основные продукты	Том №	Страница
Франция	: 350-(7)	Котлы, электронные принадлежности, арматура и фотографическая аппаратура	II	672
Франция	: 350-(8)	Металлические рамы, слесарные и другие изделия, цинковые и медные изделия и т. д.	II	674
Франция	: 350-(9)	Оборудование для резки и штамповки листового металла (для изготовления автомобильных и тракторных деталей)	II	676
Франция	: 350-(10)	Болты, гайки, винты и шайбы	II	678
Франция	: 350-(11)	Ванны и баки из чугуна	II	680
Франция	: 350-(12)	Конторское оборудование и металлические бочки	II	682
Франция	: 350-(13)	Вырезные штампованные металлические изделия и инструменты	II	684
Франция	: 350-(14)	Опрыскиватели, чайники, ведра и другие металлические изделия для сельского хозяйства и домашнего обихода	II	686
Индия	: 350-(1)	Винты, заклепки, петли и другие скобяные изделия для строительства	I	260
Индия	: 350-(2)	Жестяные коробки и ящики	I	262
Индия	: 350-(3)	Строительные профили, сосуды для хранения жидкостей, трубы и т. д. (включая монтаж)	I	264
Индия	: 350-(4)	Строительные профили (включая монтаж)	I	266
Индия	: 350-(5)	Металлические (алюминиевые) предметы домашнего обихода	I	268
Индия	: 350-(6)	Металлические контейнеры, металлические колпачки для бутылок и другие металлические изделия	II	688
Индия	: 350-(7)	Металлические контейнеры, кроненпробки и другие металлические изделия	II	690
Индия	: 350-(8)	Болты, гайки и винты	II	692
Индия	: 350-(9)	Болты, гайки, винты, заклепки, гвозди и т. д.	II	694
Индия	: 350-(10)	Металлические предметы домашнего обихода (кухонная утварь, обручи, заклепки, рейки и т. д.)	II	696
Израиль	: 350-(1)	Арматура для труб и другие изделия чугунно- и сталелитейного производства	I	270
Израиль	: 350-(2)	Проволока, гвозди и заклепки	I	272
Израиль	: 350-(3)	Проволока, проволочная сетка и другие изделия из проволоки	I	274
Израиль	: 350-(4)	Оконные и дверные рамы из алюминиевых профилей	I	276
Израиль	: 350-(5)	Ирригационные трубы и арматура, алюминиевые профили и изготовленные из них дверные и оконные рамы	I	698
Израиль	: 350-(6)	Устройства по защите от солнечного тепла и оборудование складов	II	698
Япония	: 350-(1)	Стальные бочки	I	280
Япония	: 350-(2)	Пылеуловители, жалюзи, гибкие трубы, дверные петли и упорные башмаки (в основном стальные, а частично пластмассовые)	I	282
Япония	: 350-(3)	Металлические клапаны и пожарные гидранты	I	284
Япония	: 350-(4)	Банки, крышки и другие емкости (жестяные и алюминиевые)	I	286
Япония	: 350-(5)	Ведра, ковши, тазы и т. д. (металлические и пластмассовые)	I	288
Япония	: 350-(6)	Стальные конструкции	I	290
Япония	: 350-(7)	Стальные и алюминиевые оконные рамы	I	292
Япония	: 350-(8)	Оконные ставни (тяжелые и легкие)	I	294
Япония	: 350-(9)	Проволочные канаты, стальные стрепы и стальная проволока	I	296
Япония	: 350-(10)	Стальная проволока	I	298
Япония	: 350-(11)	Проволочные и плоские пружины	II	700
Япония	: 350-(12)	Изделия из белой жести (банки и т. д.)	II	702
Япония	: 350-(13)	Крепежные винты, болты и гайки	II	704
Япония	: 350-(14)	Болты и гайки	II	706
Япония	: 350-(15)	Болты, гайки винты, заклепки и т. д.	II	708
Югославия	: 350-(1)	Металлические контейнеры и бочки	I	710
Югославия	: 350-(2)	Эмалированные изделия, посуда, радиаторы, котлы и т. д.	I	298
			I	299

<i>Страна</i>	<i>Классификация</i>	<i>Основные продукты</i>	<i>Том №</i>	<i>Страница</i>
Югославия	: 350-(3)	Ручной инструмент для сельского хозяйства (изделия ручной ковки)	I	300
Югославия	: 350-(4)	Ручной инструмент для сельского хозяйства (литые и кованые изделия)	I	301
Югославия	: 350-(5)	Стальные конструкции, резервуары, подъемные краины, холодильное оборудование и т. д.	I	302
Югославия	: 350-(6)	Стальные цепи (и детали сельскохозяйственных машин)	II	712
Югославия	: 350-(7)	Литой и кованый ручной сельскохозяйственный инструмент	II	713
Югославия	: 350-(8)	Кухонные плиты и жестяные контейнеры	II	714
Югославия	: 350-(9)	Радиаторы и котлы	II	715
Югославия	: 350-(10)	Гребные винты	II	716
Югославия	: 350-(11)	Кухонное оборудование, оборудование для отопления и другие бытовые предметы	II	717
Югославия	: 350-(12)	Металлическая мебель	II	718
Югославия	: 350-(13)	Сpirальные изделия, школьное оборудование и другие металлические и пластмассовые изделия	II	719
Югославия	: 350-(14)	Литье и арматура для водопроводов и детали для текстильных машин	II	720
Югославия	: 350-(15)	Гребные винты и проволочные изделия	II	721
Югославия	: 350-(16)	Арматура, фланцы и другие скобяные изделия	II	722

ПРОИЗВОДСТВО МАШИННОГО ОБОРУДОВАНИЯ, ИСКЛЮЧАЯ ЭЛЕКТРОДВИГАТЕЛИ

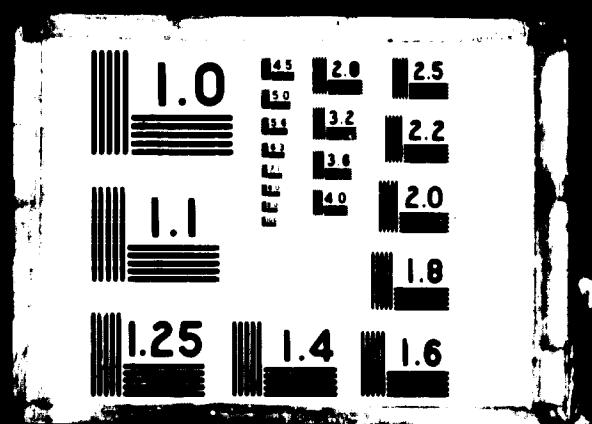
Иран	: 360-(1)	Домашние холодильники, водоохладители и разнообразные отопительные и охладительные аппараты	III	1204
Иран	: 360-(2)	Холодильники, охладители, нагреватели и т. д.	III	1208
Мексика	: 360-(1)	Краны и штамповочные прессы	III	1212
Мексика	: 360-(2)	Тракторы, сеялки, культиваторы, бороны и другой сельскохозяйственный инвентарь	III	1214
Мексика	: 360-(3)	Сельскохозяйственные тракторы	III	1216
Мексика	: 360-(4)	Сельскохозяйственные машины, грузовики и тракторы	III	1218
Центральная Европа	: 360-(1)	Насосы, моторы, коммутаторные устройства	III	1220
Центральная Европа	: 360-(2)	Измельчители-швырятки, комбайны, картофелевороченные машины, приспособления для уборки кукурузы и т. д.	III	1224
Центральная Европа	: 360-(3)	Машины и оборудование для пластмассовой промышленности	III	1228
Центральная Европа	: 360-(4)	Ковочные машины, станки для фрезерования коленчатых валов и сверлильные станки	III	1232
Центральная Европа	: 360-(5)	Универсальные станки, деревообрабатывающие станки, токарные патроны, приборы для испытания на твердость	III	1236
Центральная Европа	: 360-(6)	Револьверные и патронные токарные станки	III	1240
Центральная Европа	: 360-(7)	Гнезда и сепараторы шарикоподшипников, стандартные шарикоподшипники и т. д.	III	1244
Франция	: 360-(1)	Шарикоподшипники	I	304
Франция	: 360-(2)	Токарные станки, включая вспомогательное оборудование и запчасти	I	306
Франция	: 360-(3)	Фрезерные станки	II	724
Франция	: 360/381-(4)	Дизельные двигатели (для судов и промышленных установок)	II	726
Франция	: 360-(5)	Насосы, оборудование для них и арматура	II	728
Франция	: 360-(6)	Центробежные насосы и компрессоры	II	730
Франция	: 360-(7)	Контрольно-измерительные и регулирующие приборы для турбин	II	732
Франция	: 360-(8)	Прессы	II	734
Индия	: 360-(1)	Центробежные насосы	I	308
Индия	: 360-(2)	Центрифуги, кристализаторы, передвижные лебедки и н. д.	I	310
Индия	: 360-(3)	Краны, лебедки, смесители для песка и другое строительное оборудование	I	312

<i>Страна</i>	<i>Классификация</i>	<i>Основные продукты</i>	<i>Том №</i>	<i>Страница</i>
Индия	: 360-(4)	Краны, бетономешалки, трубы и т.д.	I	314
Индия	: 360-(5)	Культиваторы, опрыскиватели, молотилки и другие сельскохозяйственные машины и орудия	I	316
Индия	: 360-(6)	Краны, вагонетки, тележки с подъемным устройством для груза и другое погрузочно-разгрузочное оборудование	I	318
Индия	: 360/341-(7)	Дизельные двигатели, ткацкие станки, сельскохозяйственные насосы и литые детали для станков	II	736
Индия	: 360-(3)	Сельскохозяйственные прицепы, бороны, плуги и т.д.	II	738
Индия	: 360-(9)	Токарные и продольно-строгальные станки, ленточные пилы и катаные изделия	II	740
Индия	: 360-(10)	Швейные машины (в собранном виде и детали)	II	742
Индия	: 360-(11)	Листорезные станки и механические прессы	II	744
Индия	: 360-(12)	Молотилки, веялки, культиваторы и водозаборные колеса	II	746
Индия	: 360-(13)	Штампы, кондукторы и арматура	II	748
Индия	: 360-(14)	Токарные станки	II	750
Индия	: 360-(15)	Металлические конструкции, баки для хранения жидкостей, электроподъемники, ленточные пилы, оборудование для производства сахара и бумаги	II	752
Индия	: 360-(16)	Насосы и коммутаторные устройства	II	754
Израиль	: 360-(1)	Гидравлические насосы и цилиндры	I	320
Израиль	: 360-(2)	Сенные прессы, зерновые и другие сеялки, сортировальные машины и т.д.	I	322
Израиль	: 360-(3)	Сеялки, культиваторы и уборочные машины	I	324
Израиль	: 360-(4)	Насосы	II	756
Япония	: 360-(1)	Шарикоподшипники, детали машин, насосы и изделия порошковой металлургии	I	326
Япония	: 360-(2)	Мотокультиваторы, опрыскиватели, насосы, кусторезы и т.д.	I	328
Япония	: 360-(3)	Насосы различных типов	I	330
Япония	: 360-(4)	Сельскохозяйственные орудия (тракторные плуги, погружчики, бороны и т.д.)	II	758
Япония	: 360-(5)	Сельскохозяйственные орудия (рядоделатели, прополочные бороны, барабаны и грабли)	II	760
Япония	: 360-(6)	Корморезки	II	762
Югославия	: 360-(1)	Насосы и сельскохозяйственные машины	I	332
Югославия	: 360-(2)	Комбайны, грузовики, дробилки и другое сельскохозяйственное оборудование и детали	I	333
Югославия	: 360-(3)	Токарные станки и буровое оборудование	I	334
Югославия	: 360-(4)	Компрессоры, пневматические инструменты, автомобильные фары и другие запчасти для автомобилей	I	335
Югославия	: 360-(5)	Шарикоподшипники	I	336
Югославия	: 360-(6)	Водяные турбины, всасывающие насосы, дизельные двигатели и другие машины и аппаратура для промышленности	II	764
Югославия	: 360-(7)	Дизельные двигатели и тракторы	II	765
Югославия	: 360-(8)	Швейные машины	II	766
Югославия	: 360-(9)	Лифты, лестницы и другие металлические конструкции	II	767

ПРОИЗВОДСТВО ЭЛЕКТРИЧЕСКИХ АППАРАТОВ, АРМАТУРЫ, ПРИНАДЛЕЖНОСТЕЙ И ДЕТАЛЕЙ

Иран	: 370-(1)	Электрические кабели с пластмассовой изоляцией	III	1248
Иран	: 370-(2)	Телевизоры, приемники и проигрыватели	III	1252
Иран	: 370-(3)	Телевизоры	III	1256
Мексика	: 370-(1)	Электрические лампы	III	1260
Мексика	: 370-(2)	Проволока из цветных металлов, провода и кабели	III	1262
Центральная Европа	: 370-(1)	Стационарные небольшие аккумуляторы для телефонных станций и стартерные аккумуляторы для автомобилей	III	1264
Центральная Европа	: 370-(2)	Силовые кабели и линии передачи, кабели и линии передачи для электросвязи, кабельная арматура	III	1268
Центральная Европа	: 370-(3)	Холодильники, морозилки, автоматические стиральные машины, электродвигатели и т.д.	III	1272

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02919



VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT 8.1.1:

	Number	Original Purchase Value (\$'000 US \$)	Repre- sent- ative value (\$'000 US \$)	Ave. Age (yrs)	Remarks	Supplier country	Year of installa- tion	Daily running time (*)	Output capacity
Various crushing machines	56	78	..	..		Belgium	1964	{a) 16 hrs	4,000 kg/hr
Peanut-threshing plant	8	183	..	4		Sweden	1964	{a) 16 "	..
Autoclave-station	12	36	..	4		Germany, F.R.	1964	{a) 16 "	..
Steriliser (conveyor-belt type)	1	33	..	4		USA	1966	{b) 10 "	1,700 kg/hr
Pretier (conveyor-belt type)	1	80	..	2		Sweden	1963	{b) 16 "	500 kg/hr
Peeling plant	1	11	..	5		Belgium	1965	{a) 16 "	300 kg/hr
Beet processing plant	6	19	..	3		Germany, F.R.	1962	{a) 16 "	..
Cherry pitting machine	1	7	..	6		Austria	1963	{b) 16 "	400 kg/hr
Various sorting machines	19	37	..	5		Germany, F.R.	1967	{b) 16 "	70 units/min
Pilling and capping machines	34	98	..	1		Germany, F.R.	1967	{b) 16 "	35 "
Bottle stoppers and labelling machine	1	10	..	1		Switzerland	1965	{b) 16 "	27 "
Packing machine	1	26	..	3					
Other packing and labelling machines	21	41	..	..			
Other special machines	..	419	..	1-6					
Empty can conveying machinery	1	14	..	4					
Lift trucks	17	4	..	2-4					
Stander truck	7	28	..	1-4					
Various conveyor-belt type sorting machines	74	81	..	4					
Platform balances (50 t)	1	14	..	6					
Various balances (5-6 t)	22	8	..	1-6					
Various containers and tank cars	39	12	..	2-6					
Other machines	..	266	..	1-6					

For further details see page 4/XII.

CAPACITY POWER:

Process equipment:

- electric motors kW 680

Generating equipment:

- installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Machine	Automation	C modern standard		Automation	E. fully automated	F. semi-automated
				A. non-stand.	B. considerably high stand.			
All operative shops			B	II		The machinery and equipment utilised is rather new and of modern standard.		

CAPACITY UTILIZATION:

Full-capacity output: US \$ 5.5 million.

Current utilization: Based on 3-shift operation.

Major products for processing up Approximate %
to 20 40 50 60 70 80 90 100

All products

The company only operates at full capacity during harvest time.

In order to shorten the period during which machinery and equipment can not be fully utilized due to insufficient domestic supply of raw material, the company increased imports of fruits.

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963
1964
1965
1966
1967
1968

Total output (\$'000 US \$)

No. of persons employed

Total exports (\$'000 US \$)

III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- | | | |
|---|---------------------------------------|--------------------------------|
| 1. Engineering study | 3. Technical and managerial personnel | 5. Import and export services |
| 2. Financial assistance | 4. Industrial training | 6. Admission of foreign labour |
| 3. Technical services | 7. Technical consultancy | |
| 4. Equipment supply, construction & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

The reporting establishment is interested in supplying know-how, experts, and technical assistance.

Presently the company employs 35 foreign workers.

III. SUPPLEMENTS & NOTES

Commission and contract work:

The company manufactures farinaceous products and baby food on commission basis. In 1967 total commission received amounted to US \$ 286,000. Commission work is based on long-term (US \$ 103,000) as well as on short-term agreements (US \$ 183,000).

On the other hand, one subcontractor was asked by the company to produce juices on commission basis. The company's orders account for a small part of the subcontractor's annual proceeds. Commissions paid amounted to US \$ 14,900. The work performed is based on a short-term agreement.

Management development:

In the past numerous employees participated in different nationally conducted management development courses.

Inventory policies:

On the average the value of finished products in stock amounts to 1% of the total production value.

Major bottlenecks:

The problem of lacking personnel could almost be solved.

NAME AREA 1: 802-(1)

NAME ENTERPRISE: Wheat flour. Capable of producing annually 40,000 t on 3-shift operation.

DESCRIPTION UNIT: Branch of a 4-establishment enterprise founded in 1954. Originally 100% foreign capital participation, now government owned. The total number of employees in the parent company is 534. The number of employees in the central office is 29.

I. FIXED CAPITAL ASSETS (in 000 US \$) (End of 1966)				II. INVENTORIES AND WORKING CAPITAL (in 000 US \$) (End of 1966)			
	Year of comp.	Orig. purchase value	Replace-ment value		Actual value		Actual value
1. Primary process equipment Total:		981	1,260	1. Inventories	862	2. Liquid assets	
- Process equipment	1958	981	1,260	total:	862	total:	445
- Hand tools and apparatuses				- Production materials	550	- Cash (hand/bank)	0.4
- Cost of installation				- Other input materials	146	- Market/sec. & bonds	-
2. Primary industrial building Total:	1958	207	..	- Work-in-process	166	- Short-term investment	-
(total floor space: .. m ²)				- Finished products		- Prepaid expenses	-
3. Auxiliary facilities Total:		507	..			- Accounts receivable	445
- Water, steam, electricity, cooling and storing	1958	362					
- Transportation facilities (total load: .. t)		49	..				
- Administrative facilities	1958	82					
- Others (Manager's house)	1958	14	..				
TOTAL PHYSICAL FIXED CAPITAL ASSETS (smel. 1smel):		1,695	..				
4. Other fixed capital assets Total:		35	..				
- Land (total acreage: .. m ²)		35	..				
DETAILED OF I.1. (supplier):	Year of instal.	Orig. purchase value	Replace-ment value				
Screen room (UK)	1958	182					
Hill ("")	"	697					
Sprinkler ("")	"	70					
Hydromet ("")	"	10					
Box closer ("")	"	7					
Boiler peashoot(")	"	6					
Miners ("")	"	7					
Crumbler ("")	"	2					
HISTORY OF INVESTMENT:							
Construction of the factory as well as production started in 1958.							
In 1965 US \$ 140,000 were invested to double the capacity of the flour mill.							
POWER PLANT:							
- Installed capacity: (46) 636 kW				Generating equipment:			
				- Installed capacity:	- MVA		
WATER SUPPLY:							
- Long distance: poor during long rains; local area: fair.							
ENERGY:							
Electricity, water: fair.							
GENERAL:							
-							
CAPACITY OF OPERATIVE SHOPS:							
WORKING TIME PER OPERATIVE WORKER:							
- Normal hours/day:				8	hours		
- Normal days/year:				300	days		
- Actual hours/year:				2,410	hours		
The wheat mill has a utilization rate of 100%, it is fully automated and mechanized. Packing is neither automated nor mechanized.							

IV. ANNUAL PRODUCTION (in 000 US \$)

	Yr. of first prod.	Quantity produced <small>(MT UNITS)</small>	Nominal capacity output	Unit price ex factory (US \$)	Total production value
(1965) Production of wheat or products	..	22,964	40,000	159.0	3,652
Wheat flour	..	t	..	..	348
Total value of production					4,000

Imports

Part of the by-products (US\$252,000) is exported.

Capacity utilization of mill

The input (wheat) is 12,500 lbs per hour. The mill operates 3 shifts.

Page two

VI. VALUE ADDED (in 000 US \$)

(1965)	Value
1. Wages & salaries	
- Employees in direct production (232 persons)	99
- Other employees (12 persons)	31
2. Other payments for employees	43
3. Annual depreciation	82
4. Rentals paid	-
5. Interest and royalties	98
6. Sales tax	-
7. Other ind. bus. tax (-) subsidies	2
8. Corporate income before tax	-
TOTAL VALUE ADDED:	484
	.....839.....

VII. MONTHLY EARNING RATES (in US \$)

(End of 1966)	No. of emp.	Average earning rates
1. Local non-operatives total:		

- Managers	
- Engineers	
- Technicians	
- Accountants	
- Sales officers	
- Clerks and typists	

No details

2. Local operatives total:		
- Supervisors		
- Foremen		
- Machine operators		
- Craftsmen		
- Truck drivers		
- Semi-skilled operat.		
- Unskilled operat.		
- Part-time operat.		

available

3. Foreign employees total:		
--------------------------------	--	--

4. Other materials and supplies total:	Total consumption value
- Packaging (plastic bags, cardboard)	188
- Parts etc. for equip. maintenance	163

5. Business services purchased total:	Total consumption value
- Transport, storage and insurance	9
- Comm. advert. and other bus. activities	62

5. Work performed by sub-contractors total:	Total consumption value
	3,161

TOTAL VALUE OF CONSUMPTION:

.....3,161.....

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY (in US \$)

(1965)

1. Size groups by establishments	No. of estab.	No. of emp.	Avg. size	ISIC-code	Avr. gross prod.vol./ gross prod.	Avr. cap/ gross prod.
10 - 19	35	499	..	20	..	..
20 - 49	47	1,606	..		..	No data
50 - 99	24	1,900	..		..
100 - 499	17	3,429	..		..	available
over 500	2	2,102	..		..

total

125 9,831 440 6,010

2. Size groups by scale
of production of
establishments

Up to	2
2 - 5	8
5 - 10	40
10 - 150	150
150 - 250	250
250 - 400	400
400 - 1,000	1,000
1,000 - 4,000	4,000
over 4,000	4,000

total

Capital is defined as fixed capital assets.

IX. SUPPLEMENTS

GOVERNMENTAL POLICIES:

The supply of wheat is controlled by
the wheat board.

MAJOR PRODUCTS: Wheat flour, maize flour, rice, etc. Capable of producing annually 9,600 t of wheat flour, 5,760 t of maize flour, 7,650 t of rice on a 3-shift operation.

REPORTING UNIT: A one-establishment enterprise founded in 1948. Originally private corporation with no foreign capital participation, now Government owned.

<u>I. FIXED CAPITAL ASSETS</u>		(in 000 US \$)		Year of comple.	Orig. purchase value	Replacement value
(End of 1966)						
1. Primary process equipment						
total:					397	517
- Process equipment					397	517
- Hand tools and apparatuses					-	-
- Cost of installation					-	-
2. Primary industrial building						
total:				1962	306	..
- (total floor space: .. m ²)						
3. Auxiliary facilities						
total:				1948	145	..
- Water, steam, electricity, cooling and storing						
- Transportation facilities (total load: .. t)					145	..
- Administrative facilities						
- Laboratory facilities						
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excl. land):					848	..
4. Other fixed capital assets						
total:						
- Land (total acreage: .. a ²)						
- Rented						
DETAIL OF I.1. (supplier):						
				Year of comple.	Orig. purchase value	Replacement value
Wheat mill	(UK)	1962	257	336		
Rice mill	(UK)	1962				
Maize mill	(UK)	1962	135	175		
Oil mill	(UK)	1962				
Sack cleaning equipm.	(UK)	1962	1	1		
Conveying equipm.	(UK)	1962	4	5		

HISTORY OF INVESTMENT:

Both construction of the factory and production started in 1948.

<u>CAPACITY POWER:</u>		<u>GENERATING EQUIPMENT:</u>	
Electric power:	640 kW	Generating equipment:	- kVA

<u>TRANSMISSION:</u>	
Long distance poor during long rain,	
local area fair	
TRANSMISSION:	Water, electricity, gas - fair

Supplies to: Residential, health and recreational, educational fair

<u>II. INVENTORIES AND WORKING CAPITAL</u>		(in 000 US \$)	
(End of 1966)			
1. Inventories		Actual value	
total:		420	
- Production material			
- Other input materials		420	
- Work-in-process			
- Finished products			
2. Liquid assets			Actual Value
total:			364
- Cash (hand/bank)			
- Market.sec. & bonds			364
- Short-term investment			
- Prepaid expenses			
- Accounts receivable			

<u>III. DESIRED WORKING CAPITAL</u>		
	No. of months	Value
total:	3	420
- Production materials		
- Other input materials		
- Work-in-process		
- Finished products		
- Wages and salaries		

<u>III. MANNING TABLE</u>			
	(1966 average)	Total	
TOTAL EMPLOYED:		104	
1. Primary operative shops		110	
- Wheat mill		64	
- Maize mill		19	
- Rice mill		15	
- Oil mill		12	
2. Auxiliary operative units		30	
- Repair and maintenance		3	
- Tooling shop		-	
- Mechanical shop		-	
- Utilities control		-	
- Product and material storage		7	
- Off-site transport		5	
- Guards, cleaners, etc.		15	
3. Auxiliary non-operative units		24	
- Production management		2	
- Research and development		1	
- Sales unit		1	
- Accounting		-	
- General administration		18	
- Others(working proprietors)		2	

<u>CAPACITY OF OPERATIVE SHOPS:</u>		<u>WORKING TIME PER OPERATIVE MONTH:</u>	
- Normal hours/day:	8 hours	- Normal days/year:	300 days
- Normal days/year:	300 days	- Actual hours/year:	2,910 hours
- Actual hours/year:	2,910 hours		

Wheat mill: 120 bags x 200 lbs/8 hours;

Maize mill: 80 bags x 30 kg/8 hours;

Rice mill: 85 bags x 100 kg/8 hours (for seasonal reasons 8 months idle)

During the season all three mills are utilized up to capacity. They

are fully automated and mechanized.

EAST AFRICA	205	(2)
IV. ANNUAL PRODUCTION (in 000 US \$)		

(1966) Products (or group of products)		Yr.of first prod.	Quantity produced	Nominal capacity output	Unit price ex factory	Total production value
		Year:	Unit	Output	(US \$)	
Wheat flour	t	9,260	9,600	151	1,399	
Maize flour	t	2,675	5,760	103	275	
Rice	t	567	7,650	102	58	
Groundnut oil	t	59		368	22	
Waste					227	
Total value of production:					1,981	

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VI. VALUE ADDED (in 000 US \$)	
(1966)	Value
1. Wages & salaries	
- Employees in direct production (140 persons)	69
- Other employees (23 persons)	52
2. Other payments for employees	10
3. Annual depreciation	48
4. Rentals paid	6
5. Interest and royalties	18
6. Sales tax	-
7. Other indus. tax (-) subsidies	-
8. Corporate income before tax	96
TOTAL VALUE ADDED:	299

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Major Products: Wheat flour and by-products. Installed capacity is about 80,000 t of wheat per annum with 3 shifts.

Reporting Unit: Branch of an enterprise, founded in 1920. Private corporation with no foreign capital participation. The parent enterprise has another large branch (with over 1,000 employees) producing biscuits, pastry, etc. and using the flour from this branch.

I. FIXED CAPITAL ASSETS				II. INVENTORIES AND WORKING CAPITAL (In '000 US \$)			
(End of 1966)		Year of installation	Orig. purchase value 1000 US \$	Replacement value 1000 US \$			
1. Primary process equipment		TOTAL	914	1,517			
- Process equipment			735	1,411			
- Hand tools & apparatuses			13	26			
- Cost of installation			166	280			
2. Primary industrial building		TOTAL	312	623			
(total floor space: 19 stories)		6030 m ²	312	623			
3. Auxiliary facilities		TOTAL	392	384			
- Water, steam, electricity, cooling & storing and others			160	320			
- Transportation facilities (Trucks, etc.)			26	40			
- Administrative facilities			12	24			
- Laboratory facilities							
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land)			1,418	2,524			
4. Other fixed capital assets		TOTAL	5.3	489			
- Land (total acreage: 23,100 m ²)			5.3	489			
DETAIL OF PROCESS EQUIPMENT (in t):				Supplier country	Year of installation	Orig. (**) purchase value 1000 US \$	Replacement value 1000 US \$
				(*)			
Transport equipment, feeding				1942-1956	263.4	526.9	
machinery, air conditioning				1956	135.6	671.2	
equipment, bleaching equipment,				1957	22.3	44.6	
centrifuges, separators, grinders,				1958	28.9	57.6	
roller mills, purifiers, sifters,				1959	6.6	13.3	
mixers, dust-collectors,				1962	21.2	29.7	
classifiers, sowing machines,				1963	16.0	20.8	
packaging equipment and				1964	18.7	22.4	
auxiliary equipment				1965	14.7	16.2	
				1966	7.7	8.0	
(*) The greatest part of equipment was supplied from Switzerland; only in 1956 some machines were supplied from Federal Republic of Germany.							
(**) Yearly net investments.							
HISTORY OF INVESTMENT:							
In 1920 the factory was constructed and the first trial and commercial production started. The break-even point was surpassed in the same year. In 1956 US \$ 300,000 were invested for the expansion of grinders and store-rooms for wheat and in 1958 US \$ 336,000 were invested for the same purpose. Investments in later years can be seen in the above.							
This branch establishment operates as a completely decentralized unit of the parent enterprise, although a significant part of its output is sold to the other branch of the same enterprise.							
CAPACITY POWER:		Generating equipment.					
Process equipment:		Installed capacity - kVA					
Electric motor: 825 kW							
INTERNAL CONDITIONS:							
Transport: Long distance, fair; local areas, poor.							
Utilities: Electricity, water, fair.							
Community: Residential, health and recreational, educational, fair. Costs for land very high as the ground is not solid up to a depth of 40 meters. The factory is situated far away from the source of supply of construction materials.							
II. INVENTORIES AND WORKING CAPITAL (In '000 US \$)							
(End of 1966)							
1. Inventories		Actual value	2. Liquid assets		Actual value		
TOTAL		727	TOTAL		529		
- Production materials				400	- Cash (hand/bank)	341	
- Other input materials				51	- Market, sec. & bonds	-	
- Work-in-process				-	- Short-term investment	-	
- Finished products				276	- Prepaid expenses	-	
					- Accounts receivable	188	
3. Desired working capital				Number of months	Value		
TOTAL					997.3		
- Production materials				3	960.0		
- Other input materials				1	2.3		
- Finished products				2	21.0		
- Wages & salaries				..	8.0		
- Other special items							
III. MANNING TABLE (number of persons)							
(1966 average)							
A = Manual operatives B = Other operatives							
Total A B 2nd shift A+B 2nd shift A+B							
ALL SHOPS & UNITS:							
1. Primary operative shops							
- Milling department							
- Packing department							
2. Auxiliary operative units							
- Repair and maintenance							
- Mechanical shop							
- Utilities control							
- Product & material storage							
- Off-site transport							
- Guards, cleaners, etc.							
- Others (Manual workers)							
3. Auxiliary non-operative units							
- Production management							
- Research & development							
- Sales unit							
- General administration							
WORKING TIME PER OPERATIVE WORKER:							
Normal hours/day 8 hours Normal days/year 310 days							
Actual hours/year 2,480 hours							
CAPACITY OF OPERATIVE SHOPS:							
Ordinary flour-milling factory with a moderate degree of mechanization.							

IV. ANNUAL PRODUCTION

(1966)	Quantity produced	(*)	Unit (**)	Total production value	
Product or group of products	Pr. of final prod.	Unit	Nominal capacity output	US \$ M	000 US \$
- Wheat flour	..	t	38,436	60,450	109.03
- By-products (30% bran)	..	t	15,600	20,150	59.18
- Sales of wastes			109.4
TOTAL VALUE OF PRODUCTION				5,222.9	

(*) The nominal capacity output assumes 3 shifts.

(**) The flour price is regulated by the Government.
Price does not include sales tax.**REPORTS:** None.

CAPACITY UTILIZATION: The overall rate of capacity utilization is 66%.
Weak demand is the major factor responsible for the underutilization.

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed	Total consumption value				
	Unit	Per cent	Imported	Total cons.	US \$ M	000 US \$
1. Energy and water						
TOTAL:				81.3		
- Electricity	000 Kwh	4,112		79.0		
- Water	000 ej	41.6		2.3		
2. Production materials						
TOTAL:				4,600.6		
- Wheat	t	52,000		4,600.6		

VI. VALUE ADDED

(1966)	Value (000 US \$)
1. Wages & salaries:	
- Employees in direct production (72 persons)	93.3
- Other employees (21 persons)	32.0
2. Other payments for employees	16.4
3. Annual depreciation	18.4
4. Rentals paid	-
5. Interest & royalties	232.0
6. Sales tax (not incl. in TOTAL)	(0.4)
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	(-) 43.7
	408.4

VII. MONTHLY EARNING RATES

(End of 1969)	No. of persons	Average earning
	per cent	US \$ M
1. Local non-operatives		
TOTAL:	.. 10	206
- Managers	1	400
- Engineers	-	-
- Technicians	4	136
- Accountants	1	320
- Sales officers	1	480
- Other professional staff	-	-
- Clerks & typists	3	104
2. Local operatives		
TOTAL	84	97
- Supervisors	3	192
- Peons	-	-
- Machine operators	43	104
- Craftsmen	13	104
- Truck drivers	2	120
- Semi-skilled operatives	17	88
- Unskilled & part-time operatives	-	-
- Others	6	88
3. Foreign employees		
TOTAL:	1	1,200
- Engineers, trainers and other technical control staff	1	1,200

	Total consumption value
	US \$ M
3. Other materials & supplies	
TOTAL:	115.1
- Packaging (sacks)	115.1
- Repair & maintenance	-
- Non-factor service inputs	-
4. Business services purchased	
TOTAL:	17.5
- Transport, storage & insurance	2.7
- Communication, advertisements, etc.	14.8
5. Work performed by sub-contractors	
TOTAL:	-
	4,814.5

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1969)		(WBC: 205)				
Industry group: Manufacture of grain mill products						
1. Size groups by number of persons employed	Av. No. of persons	Av. per cent	Av. exp. per cent	Av. prod. per cent	Av. exp. per cent	Av. prod. per cent
Up to 25	6,098	16,607	449	6,718	43	
26 - 50	123	4,366	1,035	20,781	71	
51 - 100	52	3,715	1,200	21,047	58	
over 100	32	6,387	586	5,364	64	
	TOTAL	6,305	31,075	649	10,120	57
2. Size groups by sales of owned production						
000 US \$:						
Up to 2	16,717	25,244	51	400	94	
2 - 8	1,841	3,000	199	1,853	35	
8 - 40	1,406	4,859	487	6,324	21	
40 - 120	270	3,016	463	5,280	39	
120 - over	198	7,363	689	9,419	69	
	TOTAL	20,545	31,892	1,200	25,865	99

* Capital & depreciation absorbed capital costs.

IX. SUPPLEMENTS

Operating loss: The high financial costs, which arise from the short-term loans needed for advance purchases of wheat, are the major factors responsible for the losses. The loss seems to be covered up by the parent enterprise in a manner that is not revealed in the branch-accounting records shown here.

Future plan: During an investment period of 5 years approximately US \$ 320,000 will be invested for the expansion of wheat storage facilities.

Major Products: Wheat semolina, wheat flour, wheat bran, rye flour, bruised whole meal rye, rye pollarde, rye bran, etc.
Total output amounts to about 708,000 m³ on 3-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1852; privately owned; largest flour mill in the country;
240 employees; no export; license and research activities.

I. FIXED CAPITAL ASSETS				II. MONTHLY GROSS WAGES AND SALARIES					
				Number of persons					
(End of 1967)				(1967 monthly average)					
	Original purchase value (1966 US \$)	Replace- ment value (1966 US \$)	Av. age (Yrs.)	Up to 100 US \$	100-140 US \$	140-160 US \$	160-240 US \$	240- 560 US \$	Over 560 US \$
1. Primary process equipment (including installation cost)									
TOTAL	2,056	1,702	1						
- Process equipment *	2,028	1,041	-						
- Hand tools & apparatuses	27	40	-						
2. Buildings	1,718	1,663	-						
TOTAL	696	1,508	50						
- Primary industrial buildings (total floor space: m ²)	696	1,508	50						
- Auxiliary buildings	449	111	50						
- Warehouses	331	470	40						
- Office administration buildings	71	71	10						
- Housing	142	163	30						
3. Auxiliary facilities (excl. buildings)	371	600	-						
TOTAL									
- Internal power equipment	-	-	-						
- Laboratory facilities	19	29	..						
- Means of transportation	114	231	..						
- Office equipment	52	85	..						
- Staff housing	142	163	..						
TOTAL PHYSICAL FIXED ASSETS (excluding land)	4,114	4,256	-						
4. Other fixed capital assets									
TOTAL		136	-						
- Land (total acreage: m ²)	-	-	-						
- Land improvements (t. acr., m ² , km ²)	62	50	-						
- Others	236	184	..						

*NR (Details of process equipment and details of primary operatives shown are given on Part three (Section VIII))									
EXTERNAL CONDITIONS									
Transport									
external long distance: fair									
internal long distance: " "									
local and city: "									
Utilities									
electricity: excellent									
water: "									
gas: "									
Community									
residence: excellent									
health and recreation: "									
education: "									
Own Welfare Facilities									
III. INVENTORIES				IV. MANNING TABLE					
(End of 1967)				Number of persons					
	Actual value (1966 US \$)	Number of months		Total	A	B	C	D	E
Inventories									
TOTAL	4,865	-							
- Production materials	3,830	-							
- Other input materials	96	4							
- Work-in-process	7	7							
- Finished products	930	1,1							
WORKING TIME PER OPERATIVE WORKER									
	1st shift	2nd shift	3rd shift	hours	hours	hours	hours	hours	hours
Shift hours/day	9	8	8	hours					
Actual hours/year	2,045	1,961	1,836	hours					
Actual days/year	227	227	227	days					

V. ANNUAL PRODUCTION

(1967)

Products for group of products

	Yr. of first prod.	Quantity produced Unit	Avg. unit price on factory (US \$)	Total output value (1000 US \$)
Wheat semolina	..	t	9.3	1,843
Wheat flour 700	..	"	26.4	4,860
Wheat flour 1600	..	"	10.0	9,94
Wheat meal (animal food)	..	"	1.9	5.71
Wheat bran	..	"	8.6	4.64
Seeds, branished grain, scrapes, waste	..	"	0.2	8.30
Rye flour 960	..	"	9.7	10.00
Rye flour 500	..	"	0.6	12.76
Rye flour 2500	..	"	0.1	9.82
Bruised whole meal rye	..	"	0.4	9.22
Rye pollards	..	"	0.9	5.58
Rye bran	..	"	1.9	3.51
Rye meal (animal food), waste	..	"	0.2	5.29
Commission work	-	-	-	23

TOTAL VALUE OF PRODUCTION: 9,508

VI. VALUE ADDED

(1967)

1. Annual wages & salaries

- Operative workers (161 personnel)	361
- Non-operative workers (77 personnel)	254
2. Other payments for employees	195
3. Annual depreciation	223
- Machinery & equipment	129
- Buildings & other facilities	91
- Non-physical capital assets	3
4. Rentals paid	-
5. Interest & royalties	251
6. Sales tax	130
7. Other indirect business taxes	-
8. (-) Subsidies	(-263)
9. Corporate income before tax	262

Total
value
(1000 US \$)

TOTAL VALUE ADDED: 1,416

DESCRIPTION OF MAJOR PRODUCTS:

Wheat flour: Serial production, packed in boxes (containing 10 packets of 1 kg each) or in tanks.

Rye flour: Serial production, packed in 50 kg sacks or tanks.

Wheat semolina: Serial production, packed in boxes (containing 10 packets of 1 kg each).

Wheat bran: Serial production, packed in 50 kg sacks.

Wheat meal (animal food): Serial production, packed in 50 kg sacks.

Time of delivery: prompt.

MARKET ASPECTS:

Consumers of products:

Pastry manufacturers, farinaceous-product manufacturers, dealers.

Sales organization:

Representatives and direct sale.

Extent of the market:

The reporting enterprise is capable of supplying at least 10% of the domestic demand.

Competition in the market:Setting of prices and capacity utilisation are restricted by governmental regulations.
(Flour mill law, price regulations law, etc.).

EXPORT:

Total annual export: no exports.

Major products	To Western countries	To Eastern countries	To Developing countries
-	-	-	-

VII. ANNUAL CONSUMPTION

(1967)

	Quantity consumed Unit	Quantity Consumed	% import	Average import value	Total consumption value (1000 US \$)
1. Energy and water					
TOTAL:				121	
- Electricity	000 kWh	5,707		98	
- Coke	t	69		3	
- Firewood	t	3		0.1	
- Fuel oil	t	284		8	
- Motor fuels	t	..		10	
- Gas	m3	27		1	
- Water	m3	184		1	
2. Production materials				7,219	
TOTAL:					
- Wheat	t	56,156	3	..	5,250
- Rye	t	14,250	29	..	1,217
- Other wheat input materials	..				495
- Other rye input materials	..				257

	Total consumption value (1000 US \$)
3. Other materials & supplies	204
TOTAL:	
- Packaging material (sacks)	32
- Parts, supplies & services	161
- Other materials & supplies	11

	Total consumption value (1000 US \$)
4. Business services purchased	547
TOTAL:	
- Transportation, storage & insurance	405
- Communication, advertising & other business services	142

	Total consumption value (1000 US \$)
5. Work performed by subcontractors	-
TOTAL:	

TOTAL VALUE OF CONSUMPTION: 8,091

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service			
1. Engineering study		3. Technical and managerial personnel	6. Import and export services
2. Financial assistance		4. Industrial training	7. Assistance of foreign labour
3. Industrial services		5. Technical consultancy	
4. Equipment supply, construction & maintenance			

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
-----------------	-------------------	-----------------	-------------------	------------------------

No data available.

XIII. SUPPLEMENTS & NOTES

(a) occasionally

M.VIII. TECHNOLOGICAL CHARACTERISTICS (page 3).

Further details of γ -irradiation equipment:

Blanching machines

Vacuum-steamer steaming machine

Can filling machine

Pea sorting machine

Wheat miller

Corn processing machine

Cube cutting machine

Pilling machine

Supplier country	Year of installation	Daily (*) processing time	Output capacity
Belgium	1966	16 hrs	1,500 kg/hr
Sweden	1961	(b) 8 "	90 units/min.
Netherlands	1966	(b) 16 "	60 units/min.
Denmark	1966	(b) 16 "	2,000 kg/hr
Sweden	1965	(b) 8 "	500 kg/hr
USA	1967	(b) 8 "	1,000 kg/hr
Belgium	1966	(b) 16 "	600 kg/hr
Belgium	1966	(b) 16 "	60 units/min.

Inventory policy:

On the average the stock of finished products amounts to 26% of the total value of production.

Depreciation policy:

The company applied the straight-line method of depreciation only.

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Feasibility study	5. Technical and managerial personnel	8. Import and export promotion
2. Financial assistance	6. Industrial training	9. Administration of foreign labour
3. Industrial services	7. Technical consultancy	
4. Equipment supply, machinery & components		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects
				No information available.

XII. SUPPLEMENTS & NOTES

Commission work: In 1967 the enterprise received US \$ 13,220 for commission work.

Current problems: Demand is decreasing due to a change in consumer behaviour. Supply of customers gets more and more difficult because of deterioration of traffic situation. Increasing pressure on imports of flour products.

Inventories policy: High inventories of raw materials accrue after harvest period, they are reduced during the year.

Governmental policy: The country has excess production of flour. The price level has, therefore, to be supported by subsidies: mills are requested to purchase any grain immediately after harvest time being compensated for excess storage costs out of a fund which is fed by a tax levied on each kilogramme of flour sold. Financial aid is also granted for the processing of ray.

Major Products: Wheat flour, rye flour.

Capable of milling annually approximately 14,000 t of grain, based on 1-2-shift operation.

Reporting Unit: A one-establishment enterprise; privately owned, founded in 1880; 80 - 90 employees; no exports.
Although the mill is already very old, the machinery and equipment utilized meet modern standards due to continuous rationalisation efforts.

I. FIXED CAPITAL ASSETS

	(End of 1966)	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)				
TOTAL	504	534		
- Process equipment *	504	534	5	
- Hand tools & apparatuses	-	-	-	
2. Buildings				
TOTAL	..	600		
- Primary industrial buildings (total floor space: 20,000 m ²)	..	368	40	
- Auxiliary buildings	-	-	-	
- Warehouses (site)	178	232	7	
- Office administration buildings	-	-	-	
- Housing	-	-	-	
3. Auxiliary facilities (excl. buildings)				
TOTAL	191	252		
- Internal power equipment (*)	-	-	-	
- Laboratory facilities	-	-	-	
- Means of transportation	89	97	2.5	
- Office equipment	102	155	..	
TOTAL PHYSICAL FIXED ASSETS (excluding land)		1,386		
4. Other fixed capital assets				
TOTAL	19	77		
- Land (total acreage: 24,160 m ²)	19	77	-	
- Land improvements	-	-	-	
- Others (*)	-	-	-	

(*) Included in I.3. Office equipment.

II. MONTHLY GROSS WAGES AND SALARIES

	Number of personnel					
	Up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 360 US\$	Over 360 US\$
(As per 1.1.1967)						
1. Local non-operatives						
- Managers	-	-	-	-	1	-
- Engineers	-	-	-	-	-	-
- Technicians	-	-	-	-	-	-
- Accountants	-	-	-	1	-	-
- Sales officers	-	-	1	1	2	-
- Clerks and typists	2	5	1	1	-	-
2. Local operatives						
- Supervisors	-	-	-	-	-	-
- Foremen	-	-	3	1	-	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators	1	4	5	6	-	-
- Craftsmen	-	4	1	3	-	-
- Truck drivers	-	-	-	4	-	-
- Unskilled operatives	-	4	5	-	-	-
(*)- Other full-time operatives	7	1	2	-	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	1	-	-
- Unskilled operatives	-	3	-	-	-	-

(*) Including 7 operatives of the packing shop.

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	fair
	local and city	insignificant
Utilities:	electricity	excellent
	water	excellent
	gas	insignificant
Community:	residence	fair
	health and recreation	fair
	education	fair
Own Welfare Facilities:	None	

IV. MANNING TABLE

	Number of personnel					
	(1966 average)					
	Total	A	B	C	D	E
ALL SHOPS & UNITS:	90	26	22	12	9	9
1. Primary operative shops	41	1	13	12	6	-
Grain handling shop	{		1	2	1	-
Milling shop	{	1	9	6	3	{ 9
Packing shop	{		3	4	2	-
2. Auxiliary operative units	33	9	24	-	-	-
- Repair & maintenance	9	-	-	-	-	-
- Mechanical shop	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-
- Utilities control (laboratory)	1	-	-	1	-	-
- Product & material storage	5	2	3	-	-	-
- Off-sites transport	11	-	11	-	-	-
- Guards, cleaners, etc.	-	-	-	-	-	-
- Power station	7	7	-	-	-	-
3. Auxiliary non-operative units	16	16	-	-	-	-
- Production management	-	-	-	-	-	-
- Research & development	-	-	-	-	-	-
- Sales unit	5	5	-	-	-	-
- Accounting	11	11	-	-	-	-
- General administration	{		-	-	-	-

III. INVENTORIES

(End of 1966)	Actual value 1000 US \$	Number of months
Inventories		
TOTAL	433	5
- Production materials	363	5
- Other input materials	13	-
- Work-in-process	-	-
- Finished products	57	0.5

WORKING TIME PER OPERATIVE WORKER: See also page 4/
XIII. Supplements.

1st shift	2nd shift	3rd shift	hours
Shift hours/day	9	9	-
Actual hours/year	1,840	1,840	-
Actual days/year	205	205	-

V. ANNUAL PRODUCTION

(1966)		Wt. of prod.	Quantity produced Unit	Av. unit price or factory value per kg	Total output value (1000 US \$)
Prod. code	Quantity produced				
Wheat flour	-			953	
Rye flour	-			301	
Miscellaneous grain products: bran, groats, semolina, millet, sorghum	-	t	- 10,800	117.8	18
Revenue from contract and commission work				10	
					TOTAL VALUE OF PRODUCTION: 1,282

VI. VALUE ADDED

(1966)		Total value (1000 US \$)
1. Annual wages & salaries		
- Operative workers	106	132
(71 persons)		
- Non-operative workers	26	
(17 persons)		
2. Other payments for employees		37
3. Annual depreciation		82
- Machinery & equipment		
- Buildings & other facilities	80	
- Non-physical capital assets	2	
4. Rents paid		-
5. Interest & royalties		16
6. Sales tax		17
7. Other indirect business taxes { * }		125
8. (-) Subsidies { * }	(-) 33	
9. Corporate income before tax		37
(*) See page 4/XII. Supplements.		
		TOTAL VALUE ADDED: 415

DESCRIPTION OF MAJOR PRODUCTS:

Wheat flour, rye flour, semolina and millet flour.

Packing units: Jute sacks of 60 and 80 kg;
Paper sacks of 50 kg and small-unit packages of 1 kg;
Bulk shipment in silo wagons.

MARKET ASPECTS:

Re-sellers:
Grain.

Consumers of products:
Bakeries, hotels, households.

Shares in the domestic market:
Regulated by the national milling cartel.

Competition in the market:

Domestic competitors only. Prices are fixed by the cartel. Quality of flour is standardised: only domestic grain is milled. The extraction rate is fixed, presently at 80%. The remainder has to be sold as bran. No imports of flour.

EXPORT: No exports.
Total annual export:

Major product	To Western Europe	To Eastern Europe	To Developing countries

VII. ANNUAL CONSUMPTION

(1966)		Quantity consumed Unit	Avg. unit value	Total consumption value (1000 US \$)	Total consumption value (1000 US \$)
Prod. code	Quantity consumed				
1. Energy and water TOTAL:				6	
- Electricity	600 MWh	(*)		-	
- Coal and coke	t	21		1	
- Diesel oil	t	45		4	
- Others	..			1	
(*) Internal supply of 724,000 MWh.					
2. Production materials TOTAL:				792	
- Grain	t	- 10,800		791	
- Flour improvers (vitamins)	..			1	
3. Other materials & supplies TOTAL:				31	
- Packaging material (jute and paper sacks)				30	
- Parts, supplies & services				-	
- Other materials & supplies				1	
4. Business services purchased TOTAL:				30	
- Transportation, storage & insurance, maintenance, others				31	
- Communication, advertising & other business services				7	
5. Work performed by subcontractors TOTAL:				-	
					TOTAL VALUE OF CONSUMPTION: 867

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT 8.1.1:	Number	Original Purchase Value MM US \$	Original value MM US \$	Av. Age Yrs	Resale Rate%	Supplier country	Year of installa- tion	Output capacity and daily running time
Silos (grain conveyor)	1	6	7	1	..		..
Magnetic conveyors	..	..	..	..	..		..
Trucks	..	..	..	..	..		..
Separators	..	..	..	..	..		..
Whisker	1	16	16	1	Germany, P.R.	1962		
Grinders	..	..	..	..	..		..
Boller frames	15	99	101	25	Germany, P.R.	1936		
Plan sifters	3	30	39	1	Germany, P.R.	1966		
Detachers	7	2	2	2	..		..
Bran centrifugals	4	5	6	1	..		..
Other specialised machines	..	100	130	6	..		..
Other common type of machines	..	175	184	8	..		..
Pneumatic conveyor belt (between each phase of production process)	1	30	30	1	Germany, P.R.	1966		
Electric switchboards	6	13	15	3				

CAPACITY POWER: (*) Power aggregates of
Process equipment:
- electric motors: (a) 19 210 are not included)
- other motors HP 480

Generating equipment:
- installed capacity
- other generating
equipment

EVA -

HP 390

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shop	Kind of process involved	Manufacture		C. machines needed		Assumption
		A. most advanced	B. relatively less needed	D. other machines	E. other machines	
Grain handling shop				3	II - III	
Milling shop				3	I - II	
Packing shop				3	II	

CAPACITY UTILIZATION:

Full-capacity output: 80 t of flour per 24 hrs.

Current utilization:

Major products to process	Approximate %									
	0	25	50	75	90	95	100	105	125	150
Grain handling shop	x									
Milling shop	x									
Packing shop	x									

IX. HISTORY & PLAN

1. Performance in the past:

Year:	1963	Total output MM US \$	No. of processes engaged	Total output MM US \$
1964		1,210	50	-
1965		1,360	51	-
1966		1,260	57	-
1967		1,390	65	-
1968		1,470	76	-

Approximate

No. of processes engaged

MM US \$

2. Investments in the past:

From 19... to 1965 :	To 1966 :	Type of investment
	100	No data available.

Synchronisation of machine
operations, adaptation of grain
conveying belt.

3. Future Plan:

From 1967 to 1968 :	230	Construction of larger silos; further rationalisation and specialisation of production process will result in decrease of personnel. Electronic control devices would be desirable in the long run.
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X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1964)

Industry Grain milling

1. Size groups by number of persons employed	WBC-Code: 205 - 1			
	No. of comps.	No. of empl.	Av. no. of per comp.	Av. value per comp.
up to 19	1,121	2,143	1,434	27,291
20 - 59	46	1,915	1,789	25,857
100 - 499	6	1,023	2,012	38,701
500 - 999	-	-	-	-
over 1,000	-	-	-	-
TOTAL:	1,173	5,081	4,364	27,840
			23	

2. Size groups by annual value of production	No. of comps.	No. of empl.	Av. no. of per comp.	Av. value per comp.
up to 20	639	173	938	18,990
20 - 40	139	200	1,139	18,944
40 - 200	265	994	1,384	22,662
200 - 400	51	444	1,632	30,666
400 - 2,000	67	1,854	1,704	27,420
over 2,000	12	1,416	1,952	33,397
TOTAL:	1,173	5,081	4,364	27,840
		23		

III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service		
1. Engineering study	1. Technical and managerial personnel	8. Import and export inquiries
2. Financial assistance	2. Technical training	9. Admission of foreign labor
3. Technical services	3. Technical consultancy	
4. Equipment supply, including & maintenance	4. Technical assistance	

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region*	No. of projects	Field of industry	Description of project

3

The company is not able to send any experts to developing countries.
 This should rather be done by the industry manufacturing machinery
 and equipment for grain mills.

8

Due to domestic excess production the company cannot import flour
 or flour products.

III. SUPPLEMENTS & NOTES

III. VII. VALUE ADDED

The country has excess production of flour. The price level has, therefore, to be supported by subsidies: mills are requested to purchase any grain immediately after harvest time being compensated for excess storage costs out of a fund which is fed by a tax levied on each kilogramme of flour sold. Financial aid is also granted for the processing of rye.

On the average, the stock of finished products amounts to 4% of the total value of production.

III. IV. WORKING TABLE - Working time:

The enterprise operates according to the forced feed production principle: only after the total daily input has been processed operatives can stop working.

Major Products: Wheat and rye flour.

Capable of producing annually 13,500 t of wheat flour and of 3,000 t of rye flour based on 1- and 3-shift operation.
Full-capacity output approximates US \$ 2.7 million.

Reporting Unit:

A one-establishment enterprise; privately owned; founded in 1913; 38 employees; no commission work; no exports.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1968 US \$)	Replace- ment value (1968 US \$)	Ave. age (Yrs.)
1 Primary process equipment (including installation cost)			
TOTAL	457	512	8
- Process equipment *	440	491	8
- Hand tools & apparatuses	17	21	..
2. Buildings	337	884	
TOTAL	106	252	20
- Primary industrial buildings (total floor space: 1960 m ²)	11	66	20
- Auxiliary buildings	12	441	14
- Warehouses	15	50	12
- Office administration buildings	13	75	..
- Housing			
3. Auxiliary facilities (excl. buildings)	77	86	
TOTAL	10	13	18
- Internal power equipment			
- Laboratory facilities	2	3	10
- Means of transportation	40	40	3
- Office equipment	25	30	5
TOTAL PHYSICAL FIXED ASSETS (excluding land)	871	1,482	
4. Other fixed capital assets	14	202	
TOTAL			
- Land (total acreage: 12,000 m ²)	7	30	-
- Land improvements (t.acr.15,000 ")	7	112	-
- Others	-	-	-

*NB: Details of process equipment and capacities of primary operative shops are given on Page Three (Section : III).

II. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1968 monthly average)

up to 175 US\$	175 to 250 US\$	250 to 375 US\$	375 to 500 US\$	500 and over US\$
----------------------	-----------------------	-----------------------	-----------------------	----------------------------

1. Local non-operatives

- Managerial staff	-	-	-	1	2	-
- Technical staff	-	-	1	1	2	-
- Commercial staff	-	-	3	1	1	-

2 Local operatives

- Foremen (*)	-	7	4	-	-	-
- Skilled operatives	-	7	4	-	-	-
- Semi-skilled operatives	1	6	1	-	-	-
- Unskilled operatives	2	5	-	-	-	-
- Part-time operatives	-	-	-	-	-	-

3 Foreign employees

- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

(*) The company considers foremen as local non-operatives.

IV. MANNING TABLE

Number of persons

(End of 1968)

Shift categories		A Supervisory staff and foremen (for all shifts)	B Skilled operatives	C Semi-skilled operatives / unskilled operatives	D Unskilled operatives
------------------	--	--	----------------------	--	------------------------

Total	1st Shift	2nd Shift	3rd Shift
-------	-----------	-----------	-----------

38	12	8	8
----	----	---	---

ALL SHOPS & UNITS:

1. Primary operative shops

15	1	6	2	-	2	2
6	1	1	-	-	2	2

- Milling shop

- Sack filling and shipping shop

2. Auxiliary operative units

15	3	12	-	-
2	1	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
1	1	-	-	-
-	-	-	-	-
-	-	-	-	-
11	1	10	-	-
-	-	-	-	-
1	-	1	-	-

3. Auxiliary non-operative units

6	8	-	-	-
1	-	-	-	-
-	-	-	-	-
5	5	-	-	-
2	2	-	-	-
-	-	-	-	-

III. INVENTORIES

(End of 1968)

Actual value 1968 US \$	Number of months
-------------------------------	------------------------

Inventory	493
TOTAL:	
- Production materials	400
- Other input materials	18
- Work-in-process	-
- Finished products	75
	0.5

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours	days
8	8	8	hours	
2,000	2,000	2,000	hours	
250	250	250	days	

V. ANNUAL PRODUCTION

(1968)	Wt. of fin. prod.	Quantity produced Unit	Avg. unit price at factory DKK 00	Total output value DKK 00 000
Wheat flour	1914	t	9,501	159.8 1,519
Bran (from wheat)	1915	t	2,982	65.0 194
Rye flour	1918	t	2,063	147.8 305
Bran (from rye)	1918	t	113	53.0 6
				TOTAL VALUE OF PRODUCTION: 2,024

VI. VALUE ADDED

(1968)	Total value DKK 00 000
1. Annual wages & salaries	129
- Operative workers 1 26 percent	72
- Non-operative workers 1 12 percent	57
2. Other payments for employees	26
3. Annual depreciation	78
- Machinery & equipment	65
- Buildings & other facilities	13
- Non-physical capital assets	-
4. Rents paid	18
5. Interest & royalties	32
6. Sales tax	3
7. Other indirect business taxes	7
8. (-) Subsidies	-
9. Corporate income before tax	17
	TOTAL VALUE ADDED: 310

DESCRIPTION OF MAJOR PRODUCTS:

Wheat and rye flour of various grinding classes.

Flour by-products are sold as fodder.

MARKET ASPECTS:

Consumers of products:

90% of total production is sold to large-scale bakeries; the remaining 10% to wholesalers.

Sales organisation:

3 representatives.

Share in the regional market:

3%.

Competition in the market:

The establishment is competing with other regional and national mills.

EXPORT: No exports.
Total annual export:

Major products	To Western Europe	To Eastern Europe	To Developing countries

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed Unit	% Import	Avg. import costs DKK 00 000	Total consumption value DKK 00 000
1. Energy and water TOTAL:				30
- Electricity	600 MWh	1,073	-	22
- Diesel oil	t	77	-	12
- Fuel oil	t	140	-	4
				TOTAL VALUE OF CONSUMPTION: 1,714
2. Production materials TOTAL:			1,596	
- Wheat	t	12,597	25	1,390
- Rye	t	2,580	-	365

3. Other materials & supplies TOTAL:	Total consumption value DKK 00 000
- Packaging material (jute sacks)	60
- Parts, supplies & services	34
- Other materials & supplies	24
	2
4. Business services purchased TOTAL:	50
- Transportation, storage & insurance	16
- Communication, advertising & other business services	4
5. Work performed by subcontractors TOTAL:	-

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (S.I.)	Number	Original Purchase Value (\$'000 US \$)	Replace- ment value (\$'000 US \$)	Av. Age years	Supplier country	Description W. Purchased second-hand C. Old E. Second S. Self-constructed	Year of instal- lation	Output capacity
Wheat mill	1	125	150	20	..		1948	60 t/day
Rye mill	1	44	44	1	..		1968	20 t/day
Sifting facilities	..	86	86	1	..	Germany, F.R.	1967	4 t/day
Flour sile	..	87	95	7	..		1962	-
Grain sile	..	46	50	6	..		1961	-
Exhaustors	..	21	27	8	..		1967	4 t/day
Bag filling machines	4	6	7	9	..		1964	..
Workshop facilities	..	15	18	15	..	..	..	..
Warehouse facilities	..	11	14	10	..	..	..	..

Further details:

Flourmills and silos: installed in 1960 and 1963, supplied by Federal Republic of Germany.
 Pneumatic and mechanic conveying facilities for grain and finished products: installed between 1960 - 1965, supplied by Federal Republic of Germany.

CAPACITY POWER:

Process equipment:

- electric motors kW 250

Generating equipment:

- installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Type primary operative shops	Kind of process involved	Machinery	Capacity standard			Automation
			A. most advanced	B. moderately high standard	C. others existing	
Milling shop			B	I		
Bag filling and shipping shop			B	II		
Transport (external)			B	II		

CAPACITY UTILIZATION:

Full-capacity output: US \$ 2,750,000 based on 1- and 3-shift operation (milling shop). No additional labour requirements.

Current utilization: based on 1- and 3-shift operation.

Shift pattern (or process)	Appropriate %
B. 24 00 00 00 00 00 00 00	100

Milling shop (3 shifts) x

Bag filling and shipping shop (1 shift) x

External transport (1 shift) x

Under-utilization is mainly due to temporary insufficient supply with raw material and rather low demand for final products.

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963	Total output (\$'000 US \$)
1964	2,350
1965	2,310
1966	2,390
1967	2,270
1968	2,290

No. of shifts operated	Total output (\$'000 US \$)
------------------------------	--------------------------------

42	-
44	-
43	-
42	-
38	-

2. Investments in the past:

From 1962 to 1963 : Appropriate %	170	Type of investment
" 1963 " 1964 : " 80		Flour sile
" 1966 " 1967 : " 130		Grain sile
in 1967 : " 170		Expansion of buildings
		Milling machinery

3. Future Plan:

From 1969 to 1970: 65	Rationalization of machinery and equipment as well as of primary and auxiliary production facilities.
	3 operatives will then be employed less on the 1st shift.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures are included in total.

(1968)

Industry Manufacture of grain mill products

(NMC-Code: 205)

1. Size groups by number of enterprises	No. of enter-	No. of empl.	Av. W.S.A. per empl. (\$'000)	Av. sales per empl. (\$'000)	Av. value added/ sales ratio (%)	2. Size groups by annual sales of sales (\$'000 US \$)			Av. W.S.A. per empl. (\$'000)	Av. sales per empl. (\$'000)	Av. value added/ sales ratio (%)
						No. of enter-	No. of empl.	Av. W.S.A. per empl. (\$'000)	Av. sales per empl. (\$'000)		
up to 19	19	72	C	C	0	up to 250	83	373	245	20,694	34
20 - 49	49	78	2,232	1,798	40,033	250 - 500	39	597	1,500	23,977	36
50 - 99	99	65	C	C	0	500 - 1,250	76	1,616	1,733	39,369	15
100 - 399	399	3	C	C	0	1,250 - 2,500	40	C	C	C	C
over 400	1,000	-	-	-	-	2,500 - 6,250	26	C	C	C	C
						over 6,250	25	7,514	2,272	52,959	16
TOTAL:	297	14,536	2,089	45,961	17	TOTAL:	297	14,536	2,042	45,960	17

II. DESIGNATED AREAS FOR COOPERATION WITH DEVELOPING COUNTRIES

Type of services			
1. Engineering study	5. Production and management personnel	8. Import and export activities	
2. Financial assistance	6. Industrial training	9. Administration of foreign loans	
3. Industrial services	7. Technical consultancy		
4. Equipment supply, construction & maintenance			

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project

Imports as well as skilled workers could be provided for the installation of mills.

The establishment is also prepared to work as technical consultant for manufacturers of milling machinery and equipment.

III. SUPPLEMENTS & NOTES

Depreciation policy:

The company applies both the straight-line and the accelerated methods of depreciation.

Inventories policy:

The large amount of raw materials and supplies, covering a 2 months production period is mainly due to grain purchases right after harvest time.

On the average the value of the stock of finished products amounts to 3.7% of the total value of production.

Interest problems:

Although the company is operated by an efficient commercial management, profits have been decreasing recently due to the general structural crisis of the grain milling industry.

Major Products:

Cane sugar refinery. Produces also alcohol, sugar syrup, fodder, and ginned cotton. Capable of processing annually some 1 million of sugar cane with 3 shifts.

Reporting Unit:

A centralised multi-factory enterprise, founded in 1930. Privately owned, no participation of foreign capital. Business year: 1 July 1965 - 30 June 1966.

I. FIXED CAPITAL ASSETS

	Year of installa- tion	Orig. pur- chase value (1960 US \$)	Replacement value (1960 US \$)
1. Primary process equipment			
TOTAL		3,167.6	..
- Process equipment		8,332.7	..
- Hand tools & apparatuses		34.9	..
- Cost of installation (included in value of equipment)			
2. Primary industrial building			
TOTAL		763.8	..
(total floor space: 10,374 m ²)	1945	763.8	..
3. Auxiliary facilities			
TOTAL		1,840.5	..
- Water, steam, electricity, cooling & storing		56.0	..
- Transportation facilities (2 locomotives and 20 trucks)		666.2	..
- Administrative facilities		283.1	..
- Housing and welfare facilities		836.2	..
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):		10,871.9	..
4. Other fixed capital assets			
TOTAL		2,133.2	..
- Land (total acreage: .. m ²)		161.8	..
- Long-term investments		1,971.4	..
(*) work-in-process only. The rest is included in 1.2)			
DETAIL OF PROCESS EQUIPMENT (in): Supplier country	Year of installa- tion	Orig. pur- chase value (1960 US \$)	
a) <u>Sugar refinery</u> (U.S.A. and France): 1941 to 1966		TOTAL	5,995.5
- Material handling: 4 Electrical cranes (5.5 t each); 3 fixed cranes (12 t total); 5 scales (11,15,15,50,80 t)			
- Grinding: 1 crusher and 6 grinders (cap. 5,000 t/24 hrs); 2 cane knives w. engines (3 rd knives each); 2 tanks (2 million litres)			
- Clarification: 3 clarifiers (480,000 l in total); carbonation tank (16,000 l); 2 filters			
- Evaporation: 5 evaporators with condensers (1,117 m ² in total); 10 calender-vacuum pans with condensers (1,671 m ² in total); 20 open crystallizers type "U" (total 37,500 l)			
- Centrifuge: 19 centrifuges			
- Refinery: 2 vertical-cylinder tanks (16,000 l each); 6 carbonation tanks (total 120,000 l); 6 auto-filters (83.6 m ² each); 2 vertical filters (160 m ² each); 1 trap filter (68.6 m ²)			
b) <u>Alcohol plant</u> (Switzerland): 1943 to 1966		TOTAL	269.4
- Distillation: Barbet equipment of 24,000 l/24 hrs; 10 fermentation tanks (1/4,000 l each); 5 cylindrical tanks (total 300,000 l); 1 clarifying centrifuge (cap. 1,500 kg); etc.			
c) <u>Fodder plant</u> (U.S.A. and France): 1962 to 1963			
1 dehydrator (2.7 t/hr); etc.			
d) <u>Cotton ginning plant</u> (U.S.A.): 1962 to 1963		TOTAL	390.1
e) <u>Agricultural machines for cane fields</u> (U.S.A.):			
1,476.8			

HISTORY OF INVESTMENT: The company invested the following amounts for expansion purposes: (in 1960 US \$)

Since 194:	8,770	sugar refinery plant
" 1966	224	alcohol plant
" 1966	19	fodder plant
" 1966	436	cotton ginning plant
" 1966	51	for work-in-process

CAPACITY POWER:

Process equipment:	Generating equipment:
Electric motors: 14,087.5 kW	Installed capacity: 3 turbo-generators 1,500 KW 1 turbo-generator 1,250 KW

EXTERNAL CONDITIONS:

Transport: Long distance, excellent; local area, fair.

Utilities: Electricity, water, gas, all excellent.

Community: Residential, fair; health and recreational, educational, excellent.

II. INVENTORIES AND WORKING CAPITAL

(in 1960 US \$)

(End of June 1966)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL	42.3	TOTAL	9,633.1
- Production materials	0.8	- Cash (hand/bank)	767.6
- Other input materials	10.3	- Market, sec. & bonds	598.5
- Work-in-process	8.4	- Short-term investment	202.5
- Finished products	22.8	- Prepaid expenses	8,064.5
		- Accounts receivable	-

3. Desired working capital

Total	Number of months	Value
- Production materials		
- Other input materials		
- Finished products		
- Wages & salaries		
- Other special items		

III. MANNING TABLE

(number of persons)

(1965/66 average)

	Total	1st shift	2nd shift	3rd shift	A = Number operative B = Other operations
		A	B	A + B	
ALL SHOPS & UNITS:	1,359	868	252	239	
1. Primary operative shops	530	102	85	177	166
a. Sugar refinery plant	(381)	(81)	(45)	(130)	(119)
- Material handling yard	89	9	25	33	22
- Grinding	36	12	-	12	12
- Clarification and evap.:	64	22	-	21	21
- Centrifuge	57	19	-	19	19
- Refinery	63	21	-	21	21
- Packaging	72	4	20	24	24
b. Alcohol plant	(24)	(1)	(7)	(8)	(8)
- Syrup balancing, juice prep.	15	-	5	5	5
- Ferment., pump., distill.	9	1	2	3	3
c. Cotton ginning mill	(117)	(11)	(28)	(39)	(39)
- Material handling	84	-	28	28	28
- Transformation	33	11	-	11	11
d. Fodder plant	(8)	3	5	-	-
2. Auxiliary operative units	549	417	67	65	
- Repair and maintenance	177	139	19	19	19
- Mechanical shop	51	49	1	1	1
- Utilities control	73	29	22	22	22
- Product & material storage	27	23	2	2	2
- Off-site transport	63	63	-	-	-
- Guards, cleaners, etc.	122	80	22	20	20
- Other service shops	36	34	1	1	1
3. Auxiliary non-operative units	280	264	8	8	
- Production management	82	66	8	8	
- Research & development					
- Sales unit					
- General administration	195	195	-	-	
- Top management	3	3	-	-	

WORKING TIME PER OPERATIVE WORKER: For the sugar refinery plant

Normal hour/day	8 hours	60 days/yr. and 480 hrs/yr. for
Actual hours/year	2,168 hours	the alcohol plant; 90 days/yr. and 720 hrs/yr. for the cotton ginning plant; 156 days/yr. and 1,248 hrs/yr. for the fodder plant.
Actual days/year	271 days	yr. for the fodder plant.

CAPACITY OF OPERATIVE SHOPS:**Cane receiving and grinding departments:**

5,000 t/day; moderate mechanisation.

Boiling department:

Balanced with the capacity of grinding department. One of the 7 boilers is automated.

Clarification:Clarifiers of total 480,000 l; heatars of total 700 m².**Evaporation:**1 triple effect evaporator (1,767 m²), 2 preheaters (139.5 m² each); 4 quintuple effect evaporators (total 3,860 m²).**Alcohol production:**

The plant has a capacity of 24,000 l/24 hrs; 4,00,000 l for 6-month operation per year. This capacity is designed to be complementary to that of the sugar refinery plant.

Major Products: Canned fruits and vegetables.

Capable of producing annually 1,200 t of canned fruits and 950 t of canned vegetables based on 1-shift seasonal operation. Full-capacity output amounts to US \$ 1 million.

Reporting Unit: A one-establishment enterprise; privately owned; founded in 1925; 52 employees. Favourable location with reference to raw material supply and markets. Exports are of minor importance.**I. FIXED CAPITAL ASSETS**

(End of 1968)

	Original purchase value (1968 US \$)	Replace- ment value (1968 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL:	99	121	
- Process equipment *	88	107	4
- Hand tools & apparatuses	11	14	5
2. Buildings			
TOTAL:	32	40	
- Primary industrial buildings (total floor space: 812 m ²)	17	21	18
- Auxiliary buildings	4	5	12
- Warehouses	-	-	-
- Office/administration buildings	11	14	20
- Housing	-	-	-
3. Auxiliary facilities (excl buildings)			
TOTAL:	25	32	
- Internal power equipment	3	5	20
- Laboratory facilities	4	4	6
- Means of transportation	16	20	4
- Office equipment	2	3	5
TOTAL PHYSICAL FIXED ASSETS (excluding land):	156	193	
4. Other fixed capital assets			
TOTAL:	11	22	
- Land (total acreage: m ²)	-	-	-
- Land improvements (t.scr. 2,894 ")	11	22	-
- Others	-	-	-

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

	up to 175 US\$	175 US\$	250 US\$	375 US\$	500 US\$	over 1,000 US\$
1. Local non-operatives						
- Managerial staff	-	-	-	-	1	-
- Technical staff	-	1	2	-	-	-
- Commercial staff	2	1	1	-	-	-
2. Local operatives						
- Foremen	-	-	-	-	-	-
- Skilled operatives	-	5	2	-	-	-
- Semi-skilled operatives	1	4	-	-	-	-
- Unskilled operatives	2	4	-	-	-	-
- Part-time operatives	14	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives (*)	12	-	-	-	-	-

(*) part-time workers.

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	-
	internal long distance	fair
local and city	excellent	
Utilities:	electricity	fair
	water	fair
	gas	-
Community:	residence	-
	health and recreation	-
	education	-
Own Welfare Facilities:	-	

IV. MANNING TABLE

(Number of persons)

(1968 average)

	Total	1st Shift			2nd Shift			3rd Shift		
		A	B	C	D	E	F	G	H	I
ALL SHOPS & UNITS:										
1. Primary operative shops	35	3	7	19	6					
- Production department	33	3	7	17	6	-	-	-	-	-
- Packing department	2	-	-	2	-	-	-	-	-	-
2. Auxiliary operative units	12					12				
- Repair & maintenance	1	-	-	-	-	1	-	-	-	-
- Mechanical shop	-	-	-	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-	-	-	-
- Utilities control	-	-	-	-	-	-	-	-	-	-
- Product & material storage	4	-	-	-	-	4	-	-	-	-
- Off-site transport	4	-	-	-	-	4	-	-	-	-
- Guards, cleaners, etc.	2	-	-	-	-	4	-	-	-	-
- Other auxiliary op. units	1	-	-	-	-	1	-	-	-	-
3. Auxiliary non-operative units	5	5								
- Production management	1	-	-	-	-	-	-	-	-	-
- Research & development	-	-	-	-	-	-	-	-	-	-
- Sales unit	2	2	-	-	-	-	-	-	-	-
- Accounting	2	2	-	-	-	-	-	-	-	-
- General administration	-	-	-	-	-	-	-	-	-	-

III. INVENTORIES

(End of 1968)

	Actual value (1968 US \$)	Number of items
Inventories		
TOTAL:	65	
- Production materials	4	0.1
- Other input materials	1	1
- Work-in-process	-	-
- Finished products	60	1.2

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	
Shift hours/day	8	-	hours
Actual hours/year (*)	860	-	hours
Actual days/year	106	-	days

(*) Company is operated seasonally.

IV. ANNUAL PRODUCTION

(1965/66)	Quantity produced Yr. of Year prod.	Unit	Output	Normal capacity output	Unit ** price in factory (US \$)	Total production value 1965 US \$
Products for group of products						
- Refined granular sugar	1931/32 t		85,239	90,000	105.60	9,001
- Alcohol	1933/34 000 l		1,729	4,000	168.00	291
- Incrystallizable sugar syrup	1931/32 t		24,292	27,500	12.00 8.38(Exp.)	280
- Fodder	1963/64 t		1,021	4,000	34.28	35
- Cotton in plume	1964/65 bales		16,499	30,000	113.44	1,872
- Cotton seeds	1964/65 t		6,459	..	77.30	499
- Cane wastes (fibrous)	1964/65 t		15,529	28,620	9.25	143
TOTAL VALUE OF PRODUCTION					12,121	

* Based on the assumption of non-seasonal operation for all the plants, with 3 shifts.

** Does not include any production tax or sales tax.

EXPORTS: Part of incrystallizable sugar syrup is exported at a price of US \$ 8.38 per ton.

COMPETITIVE IMPORTS: There are no competitive imports of cane sugar and alcohol derived thereof in this country.

CAPACITY UTILIZATION: As indicated under "Working Time per Operative Worker" in Section III, the plants for alcohol, fodder and cotton ginning are operated only seasonally. The sugar refinery capacity is satisfactorily utilized.

V. ANNUAL CONSUMPTION

(1965/66)	Quantity consumed	Unit	Period	% Imported	Total cons. 1965 US \$
1. Energy and water					
TOTAL					321
- Electricity (internally supplied)	000 kWh				-
- Liquid fuels: Petrol	000 m3		618.9		40
Raw oil	000 m3		15,670.9		166
Diesel oil	000 m3		2,007.5		55
Others	000 m3		48.6		61
2. Production materials					7,260
TOTAL					
- Cane	t		915,042		4,533
- Incrystallizable sugar syrup (purchased)	t		7,968		111
- Seed cotton	t		11,381		1,963
- Other materials	t		..		653

VI. VALUE ADDED

(1965/66)	Value 1965 US \$
1. Wages & salaries	
- Employees in direct production (1,019 persons)	1,340
- Other employees (280 persons)	283
2. Other payments for employees	791
3. Annual depreciation	491
4. Rentals paid	-
5. Interest & royalties	265
6. Sales tax	-
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	81
	3,250

VII. MONTHLY EARNING RATES

No. of per. emp.	Average earning per. US \$
(End of June 1966)	
1. Local non-operatives	
TOTAL	202
- Managers	3
- Engineers	21
- Technicians	22
- Accountants	4
- Sales officers	-
- Other professional staff	4
- Clerks & typists	145
- Administrator	1
- Others(chiefs of material handling)	3
2. Local operatives	1,146
TOTAL	113
- Supervisors	3
- Foremen	35
- Machine operators	382
- Craftsmen	311
- Truck drivers	16
- Other full-time operatives	384
- Unskilled & part-time operatives	-
- Other(service preparators, weighers, guards, mixers,etc)	15
3. Foreign employees	
TOTAL	-

Total consumption value 1965 US \$
798
45
16
17
491
440
51
8,870

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)
Industry group: Sugar factories and refineries (INC. 207)

1. Size groups by number of workers	Number of workers	Number of plants	Av. no. of workers per plant	Av. gross prod. val. per plant	Av. exp. per plant
Up to 5	535	7,958	53	230	72
6 - 15	267	2,460	39	344	95
16 - 250	128	6,383	625	3,123	117
251 - 500	25	8,390	1,400	6,494	148
over 500	26	25,493	1,006	6,861	156
TOTAL	981	44,870	1,234	5,611	151
2. Size groups by value of annual production					
Up to 2	1,866	5,801	23	140	37
2 - 4,000	261	22,092	1,066	4,257	180
over 4,000	17	16,778	1,007	8,379	133
TOTAL	1,244	45,671	1,107	5,603	151

* Adjusted to constant physical capital costs.

IX. SUPPLEMENTS

Future plan: During 1968/69 and 1972/73 approximately US \$ 1,120,000 will be invested in the sugar refinery plant.

Governmental policies: An effective growth-favouring policy - especially favouring renovation of equipment and installation of modern apparatus - is desired.

Major Products: Cane sugar refinery; also produces sugar syrup, alcohol and molasses.

Capable of processing annually about 1.5 million t of sugar cane with 3 shifts.

Reporting Unit: An old one-establishment enterprise, founded in 1904. The enterprise was re-instituted into the present form in 1944.

I. FIXED CAPITAL ASSETS

(End of 1965)	Year of construction	Org. purchase value MDD US \$	Replacement value MDD US \$
1. Primary process equipment			
TOTAL	..	13,953	22,495
- Process equipment		13,953	22,495
- Hand tools & apparatuses		-	-
- Cost of installation		-	-
2. Primary industrial building			
TOTAL	..	2,631	3,229
(total floor space: .. m ²)		2,631	3,229
3. Auxiliary facilities			
TOTAL		2,272	3,663
- Water, steam, electricity, cooling & storing		516	949
- Transportation facilities		953	1,109
- Administrative facilities		216	286
- Laboratory facilities		-	-
- Others		589	1,319
TOTAL PHYSICAL FIXED CAPITAL ASSETS		18,856	29,387
Including land:			
4. Other fixed capital assets			
TOTAL		37	..
- Land (total acreage: .. m ²)		37	..
DETAIL OF PROCESS EQUIPMENT (in):	Supplier country	Year of construction	Org. purchase value MDD US \$
Sugar plant			13,003
Distillery		1944 to 1964	232
"Oasis" plant		1964	550
Machinery and equipment for the plantation field			168
			493

HISTORY OF INVESTMENT:

The factory was constructed in 1905. The first trial production started in 1906, and the first commercial production one year later. In 1964 US \$ 10,000,000 were invested for the expansion of the sugar refining capacity and storage facilities.

CAPACITY POWER:

Process equipment:
- Electric motor: 5,700 kW
- Prime mover: 6,000 "

Generating equipment:

Installed capacity - kVA

INTERNAL CONDITIONS:

Transport: -

Utilities: Electricity and water, fair.

Community: Residential, health and recreational, educational, fair.

II. INVENTORIES AND WORKING CAPITAL

(in MDD US \$)

(End of 1965)

1. Inventories	Amount value	2. Liquid assets	Amount value
TOTAL	1,475	TOTAL	5,260
- Production materials	17	- Cash (hand/bank)	39
- Other input materials	1,450	- Market. sec. & bonds	1,699
- Work-in-process	-	- Short-term investment	38
- Finished products	8	- Prepaid expenses	97
		- Accounts receivable	3,387

3. Desired working capital

TOTAL	Number of months	Value
12	7,440	
- Production materials	-	-
- Other input materials	12	640
- Finished products	-	-
- Wages & salaries	..	2,000
- Other special items	..	4,800

III. MANNING TABLE

Number of personnel

(196 average)

Total	1st shift A	2nd shift B	3rd shift A+B	4th shift A+B
ALL SHOPS & UNITS:	754			
1. Primary operative shops	345	..	..	..
- Sugar mill	321			
- Distillation of alcohol	24			

2. Auxiliary operative units

- Repair and maintenance	327	..	..	..
- Mechanical shop				
- Utilities control	36			
- Product & material storage	10			
- Off-site transport	..			
- Guards, cleaners, etc.	-			
- Laboratory	26			

(includes cane loading and transporting and unloading crews)

(includes technical and managerial control of the sugar plant)

3. Auxiliary non-operative units

- Production management	-	-	-	-
- Research & development	-	-	-	-
- Sales unit	10		10	
- General administration				

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day: 8 hours - Normal days/year: 200 days

Actual hours/year: 1,600 hours

CAPACITY OF OPERATIVE SHOPS:

IV. ANNUAL PRODUCTION

(1965)	Vr. of first prod.	Quantity produced	Nominal capacity output	Unit price on factory (US \$)	Total production value 1965 US \$)
Products for group of products		Units	Output		
- Sugar	..	t	106,278.8	..	105.5 11,214
- Sugar syrup	..	t	38,372.0	..	11.0 442
- Alcohol	..	000 t	1,326.8	..	0.5 637
- Residues	..	000 t	63.3	..	0.17 11
- Molasses	..	t	103.7	..	72.0 8
TOTAL VALUE OF PRODUCTION				12,312	-----

EXPORTS: Part of inocrystallizable sugar syrup production is exported at US \$ 11.00 per t.

CAPACITY UTILIZATION: The exact estimate of nominal capacity output was not made available. A rough gueswork was about 150,000 t of refined sugar with 3 shifts.

V. ANNUAL CONSUMPTION

(1965)	Quantity consumed	% imported	Total consumption value 1965 US \$)
	Units	Purchase	
1. Energy and water			
TOTAL:			345.6
- Solid fuel (Woodgas)	t	270,000	-
- Electricity	000 Kwh	160,980	14.4
- Liquid fuel and lubricants: Oil	000 l	25,295.7	265.8
Diesel oil and gasoline	000 l	577.5	24.0
Lubricants	000 l	..	41.4
(Externally supplied) Steam	t	636,000	-
2. Production materials	" Water	000 m³	52,000
TOTAL:			5,230.3

- Sugar cane	t	1,018,374
- Animal charcoal	"	97,000
- Lime	"	869
- Hydro sulphide	"	5
- Caustic soda	"	35
- Miscellaneous	"	..

VI. VALUE ADDED

(1965)	Value 1965 US \$)
1. Wages & salaries	
- Employees in direct production (750 persons)	1,263.4
- Other employees (See note in IX)* (.. persons)	596.3
2. Other payments for employees	525.6
3. Annual depreciation	1,407.4
4. Rentals paid	56.0
5. Interest & royalties	815.5
6. Sales tax (not incl. in TOTAL)	(3.3)
7. Other ind. bus. taxes	933.1
8. (-) Subsidies	-
9. Corporate income before tax	(-) 56.4
	5,540.9

VII. MONTHLY EARNING RATES

No. of per. empl.	Average earning rate US \$)
(End of 1965)	
1. Local non-operatives	
TOTAL:	55 234
- Managers	2 2,000
- Engineers	- -
- Technicians	- -
- Accountants	6 320
- Sales officers	- -
- Other professional staff	7 400
- Clerks & typists	40 104
2. Local operatives	
TOTAL:	.. ..
- Supervisors	1 2,000
- Foremen	15 320
- Machine operators	.. 240
- Craftsmen	.. 240
- Truck drivers	.. ..
- Other full-time operatives	.. 128
- Unskilled & part-time operatives	.. 80
3. Foreign employees	
TOTAL:	3 1,400
- Engineers, trainers and other technical control staff	3 1,400

Total consumption value 1965 US \$)	
375.4	
3. Other materials & supplies	
TOTAL:	375.4
- Packaging	-
- Repair & maintenance	325.7
- Non-factor services inputs	49.7
4. Business services purchased	
TOTAL:	819.8
- Transport, storage & insurance	166.7
- Communication, advertisements, etc.	653.1
5. Work performed by sub-contractors	
TOTAL:	-
	6,771.1

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965) Industry group: Sugar factories and refineries (INC: 207)

1. Size groups by number of persons employed	Number of establishments	Av. W. &. S.	Av. prod. val. US \$)	Av. exp. prod. val. US \$)	ratio* (%)
up to 5	535	1,998	53	230	72
6 - 15	267	2,448	59	344	95
16 - 250	128	6,323	625	3,123	117
251 - 500	25	8,598	1,490	6,494	148
over 500	26	25,493	1,506	6,861	150
TOTAL	981	46,870	1,234	5,611	151
2. Size groups by value of annual production US \$)					
up to 2	1,266	5,801	23	140	87
2 - 4,000	261	22,092	1,066	4,257	181
over 4,000	17	18,778	1,687	8,379	133
TOTAL	1,544	46,671	1,187	5,403	151

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

Future plan:

Within the next 5 years approximately US \$ 1,600,000 will be invested for the expansion of sugar production. The additional labour to be employed will then be 15 persons on each of the 3 shifts.

* Salaries of "Other employees"

The detail of this figure (which is not consistent with the number of employees given in III) was not made available. The negative corporate income before tax, which could be well covered by these extra salaries, might be attributed to a sloppy accounting procedure - confusion of annual operating account with capital account expenditures.

Major Products: Animal feeds. Capable of producing annually 10,900 t of animal feeds on 2-shift operation.

Reporting Unit: A privately owned one-establishment enterprise, founded in 1957, no participation of foreign capital.

I. FIXED CAPITAL ASSETS				II. INVENTORIES AND WORKING CAPITAL (in 000 US \$)							
				Year of installation	Orig. purchase value 1000 US \$)	Replacement value 1000 US \$)		Year of installation	Actual value 1000 US \$)	2. Liquid assets	Actual value 1000 US \$)
(End of 1966/67)								(End of 1966/67)			
1 Primary process equipment								1. Inventories		2. Liquid assets	
TOTAL					23.4	26.6		TOTAL	87.6	TOTAL	171.9
- Process equipment					19.1	21.3		- Production materials	63.1	- Cash (hand/bank)	14.3
- Hand tools & apparatuses					0.4	0.5		- Other input materials	2.6	- Market, sec. & bonds	-
- Cost of installation					3.9	4.8		- Work-in-process	7.0	- Short-term investments	-
2. Primary industrial building					52.6	52.6		- Finished products	14.9	- Prepaid expenses	-
TOTAL					52.6	52.6		- Accounts receivable	157.6	- Accounts receivable	157.6
(total floor space: 2,400 m ²)				1957	52.6	52.6					
3. Auxiliary facilities					52.0	64.0					
TOTAL					52.0	64.0					
- Water, steam, electricity, cooling & storing					-	-					
- Transportation facilities				1966/67	32.0	36.0					
- Administrative facilities				1963	20.0	28.0					
- Laboratory facilities					-	-					
TOTAL PHYSICAL FIXED CAPITAL ASSETS					128.0	143.2					
Including land:					-----	-----					
4. Other fixed capital assets					24.8	51.5					
TOTAL					24.8	51.5					
- Land (total acreage: 1,680 m ²)					24.8	51.5					
DETAIL OF PROCESS EQUIPMENT (in t)				Supplier country	Year of installation	Orig. purchase value 1000 US \$)	Replacement value 1000 US \$)	III. MANNING TABLE (number of persons)			
								Total	A - Primary operative	B - Secondary operative	C - Other operative
								1st shift	2nd shift	3rd shift	
								A	A + B	A + C	
								B			
- 1000 lbs scales				4	USA	1963/66/68	3.8	4.4			
- 140 lbs scale				1	"	1966	0.3	0.3			
- Universal centrifugal pump				1	"	1963	0.1	0.1			
- Electrical pump				1	"	1963	0.1	0.1			
- Vertical mixers				2	"	1963	4.2	4.6			
- Horizontal mixers				2	"	1963/68	3.5	3.9			
- Galvanized sheet granaries				5	"	1966/67	1.5	1.7			
- Hammer mills				2	"	1963/68	4.0	4.4			
- Auxiliary equipment				"	"	1963/67	1.6	1.8			
HISTORY OF INVESTMENT:											
Construction of the factory started in 1955. Both trial and commercial production started in 1957. In the same year profits accrued for the first time after utilising 50% of capacity. The following investments were made: (in 000 US \$)											
1966	30	Machinery	Replacement								
1967	6	Machinery	Expansion								
CAPACITY POWER:				Generating equipment:							
Process equipment: Electric motor: 30 kW				Installed capacity: - kVA							
EXTERNAL CONDITIONS:											
Transport: Long distance and local area, excellent.											
Utilities: Electricity, fair; water, excellent.											
Community: Residential, health and recreational, educational, fair.											

IV. ANIMAL PROPERTIES

(1966/67) Products (or group of products)	Wt. of final prod.	Quantity produced		Standard output output	Unit price & factory value RS 10 Rs 1000 US \$	Total production value RS 1000 US \$
		Units	Output			
- Animal feeds	1957	000 lbs	12,361	24,000	31.4	388.8
- Others		..	..	..	..	61.0
					TOTAL VALUE OF PRODUCTION	449.8
					-----	-----

W. WALTER ADAMS

	Value (MM US \$)
(1966/67)	
1. Wages & salaries	
- Employees in direct production	14.9
(13 persons)	
- Other employees	26.5
(14 persons)	
2. Other payments for employees	1.4
3. Annual depreciation	7.6
4. Rentals paid	-
5. Interest & royalties	7.7
6. Sales tax (not incl. in TOTAL)	(1.5)
7. Other ind. inv. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	16.0
	74.1

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Part of animal feed production is exported at a unit price of US \$ 31.4.

COMPETING INFORMS

Similar products are imported at a unit price which is usually 2% - 3% higher than the price for locally produced products. The protective tariff rate for imported products is 10% & 0.05 per gross kilo and 20% ad valorem.

CAPACITY UTILIZATION

Bexisting capacity is underutilised due to lack of sufficient working capital. In order to achieve full utilisation 52 additional men-houses/year would be required on the 3rd shift.

X ANNUAL GROUP INSURANCE

	Quantity consumed			Consumption value		
	Unit	Purchase	% Imported	Tariff rate	US \$/M US \$	
(1966/67)						
1. Energy and water						
TOTAL:					6.9	
- Electricity	000 Kwh	210.7			4.7	
- Liquid fuels and lubricants:						
Diesel oil					1.5	
Other lubricants			..		0.3	
					0.4	
- Water						
2. Production materials						
TOTAL					140.8	
	per gross kg	and val. %				
- Fish meat	000 lbs	314	95	free	7	23.9
- Corn	" "	2,843	10	0.08	10	85.2
- Sorghum	" "	2,841	-	0.08	10	85.2
- Soy bean	" "	313	100	0.25	15	23.9
- Alfalfa	" "	239	100	0.25	20	10.2
- Miscellaneous	" "	5,111	-	free	100	112.4

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	No. of per. emp.	Average com- pensation (\$000 \$)
(End of 1966/67)		
1. Local non-operatives		
TOTAL:	8	111
- Managers	1	800
- Engineers	-	-
- Technicians	-	-
- Accountants	1	200
- Sales officers	2	320
- Other professional staff	1	560
- Clerks & typists	3	100
2. Local operatives		
TOTAL:	29	54
- Supervisors	-	-
- Foremen	-	-
- Machine operators	20	50
- Craftsmen	-	-
- Truck drivers	3	92
- Other full-time operatives	6	48
- Unskilled & part-time operatives	-	-
3. Foreign employees		
TOTAL:	-	-

VII. CHARACTERISTICS OF THE WORKERS IN THE SECTOR

新編 朝鮮語文庫

(106)

Industry group:		Am.	Am. per capita	Am. per capita	Am. per capita
1. One group by number of persons employed	Number of persons employed	Number of firms	Per cent.	Per cent.	Per cent.

No. 450 - sweet olive

FORM _____
2. The groups by name
of ~~united~~ ~~provinces~~
~~1920 to 1921~~

Governmental policies

It is desirable to have more fiscal incentives in the industrial promotion law.

Patients selected

By 1971, approximately US \$ 160,000 will have been invested for expansion purposes. By then 6 persons will be employed on the 3rd shift.

Major Products: Macaroni and similar products, powdered soups. Capable of producing annually 590 t of macaroni and similar products and 120,000 dozen-packets of soups based on 1-shift operation.

Reporting Unit: A one-establishment enterprise founded in 1953, privately owned, no participation of foreign capital.

I. FIXED CAPITAL ASSETS

	Year of installation	Orig. purchase value US \$ 00	Replacement value US \$ 00
(End of 1966/67)			
1. Primary process equipment			
TOTAL:		37.3	54.8
- Process equipment	various	10.5	46.0
- Hand tools & apparatuses		0.8	0.8
- Cost of installation		6.0	8.0
2. Primary industrial building	1955	17.4	22.0
TOTAL:		17.4	22.0
(total floor spaces: 780 m ²)			
3. Auxiliary facilities		20.6	24.0
TOTAL:			
- Water, steam, electricity, cooling & stirring	1955	1.0	1.4
- Transportation facilities	1961/65	18.8	21.6
- Administrative facilities	1960	0.8	1.0
- Laboratory facilities		-	-
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):		75.3	100.8
4. Other fixed capital assets		6.6	11.0
TOTAL:		6.6	11.0
- Land (total acreage: 7,800 m ²)			

DETAIL OF PROCESS EQUIPMENT No.h.

	Supplier country	Year of installation	Orig. purchase value US \$ 00	Replacement value US \$ 00
- Stamping machine	1 Spain	1962	3.4	4.4
- Braibranti machine	1 Italy	1958	4.3	5.6
- Automatic microbraibranti machine	1 Italy	1960	4.4	5.6
- Automatic packing machine	1 Mexico	1962	4.3	5.0
- - -	Sweden, FR.Germ.	1960/63	4.5	4.8
- Packing machine	1 Spain	1963	3.2	10.0
- Compressing machine	1 USA	1963	4.0	6.0
- Predator	1 Italy	1958	1.3	1.2
- Drier	1 Italy	1958	1.1	3.4

HISTORY OF INVESTMENT:

Construction of the factory started in 1953. Both trial and commercial production started in 1955. Profits accrued for the first time in 1956 when 50% of the capacity was utilized.

CAPACITY POWER:

Process equipment:	Generating equipment:
- Electric motor: 24 kW	- Installed capacity: 100 kVA
- Other fixtures: 24 "	

EXTERNAL CONDITIONS:

Transport: Long distance and local areas, fair.

Utilities: Electricity, fair; water, excellent.

Community: Residential and educational, fair; health and recreational, poor.

II. INVENTORIES AND WORKING CAPITAL

(in US \$ 00 00)

(End of 1966/67)

1. Inventories	Amount value	2. Liquid assets	Amount value
TOTAL:	23.4	TOTAL:	5.2
- Production materials	5.2	- Cash (bank/bank)	1.7
- Other input materials	15.7	- Market. sec. & bonds	-
- Work-in-process	2.5	- Short-term investment	-
- Finished products	-	- Prepaid expenses	-
- Wages & salaries	-	- Accounts receivable	3.5

3. Desired working capital

	Number of persons
TOTAL:	37.2
- Production materials	3
- Other input materials	3
- Finished products	3
- Wages & salaries	3
- Other special items	3

III. MANNING TABLE

(number of persons)

(1966/67 average)

	Total	1st shift	2nd shift	3rd shift
	A	B	A+B	A+B
ALL SHOPS & UNITS:	40	40	-	-
1. Primary operative shops	16	5	13	-
- Total plant	16	5	13	-

2. Auxiliary operative units

- Repair and maintenance	8	8	-	-
- Mechanical shop	1	1	-	-
- Utilities control	5	5	-	-
- Product & material storage	1	1	-	-
- Off-site transport	-	-	-	-
- Guards, cleaners, etc.	-	-	-	-
- Packing	1	1	-	-

3. Auxiliary non-operative units

- Production management	8	8	-	-
- Research & development	-	-	-	-
- Sales unit	9	9	-	-
- General administration	5	5	-	-

WORKING TIME PER OPERATIVE WORKER:

- Normal hours/day:	8	hours	- Normal days/year:	260	days
- Actual hours/year:	2,080	hours			

CAPACITY OF OPERATIVE SHOPS:

The heating department has a daily dehydrating

capacity of 30 gallons. Its capacity is fully utilized.

IV. ANIMAL PROMOTIONS

CONTRIBUTIVE APPROACH

Protective tariff rates are imposed on imported maccaroni and similar products of either 10% ad valorem and of U.S. 0.60 per gross kilo. The national production of powdered soups is protected by a tariff rate of 10% ad valorem and of U.S. 20.75 per gross kilo.

CAPACITY UTILIZATION:

Underutilisation of capacity due to lack of working capital (production materials). In order to utilize the total capacity additional 176 man-hours would be required annually on the 2nd shift.

V. ANNUAL OPERATING COSTS

	Quantity consumed		Value in US \$ M
	Own	Purchase	
(1966/67)			
1. Energy and water			
TOTAL:			4.5
- Electricity	000 Kwh	68.7	2.1
- Liquid fuels and lubricants:			
Gasoline and diesel oil	m3	30	2.4
2. Production materials			
TOTAL			16.9
	per gross weight	mt ver- loren	
	US \$	1	
- Flour	t	190.5	31.7
- Refined salt	000 lbs	5	0.4
- Salt	" "	25.3	0.4
- Corn flour	" "	3.1	0.5
- Lard	" "	2.3	0.5
- Sugar	" "	4.0	0.4
- Monosodium glutamine	" "	6.0	2.6
- Asparagus	" "	0.2	0.2
- Tomatoes	" "	0.1	0.1

YOU CHARACTERISTICS OF THE ANGLO-SAXON IN THE SCAVENGER HILL AREA

VII. GENERAL CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY						
(196)						
Industry group:		HSIC:				
1. One group by number of persons employed	Number of units	Number of emp.	Av.	Av.	Av.	Av.
			W. & L.	per 1000 per 1000 per 1000 per 1000	per 1000 per 1000 per 1000 per 1000	

The American Statistician

TOTAL _____
2. The group by size
of annual production
_____ to _____
_____ to _____
_____ to _____

第二部分

Segmented maintenance

Property taxes, import duties, the increase of Social Security rates, etc. affect the profitability of the enterprises.

Large-scale technical assistance programmes would favourably affect the viability of the enterprises.

SANT'APREIA : 214 - (1)

OPERATING FEATURES: Soft drinks and soda water.
 Capable of producing daily 4,000 cases (each containing 24 bottles or 1 to 1.5 gallon) in 3-shift operation.

GENERAL UNIT: A one-establishment enterprise founded in 1951; privately owned. No foreign capital participation.

I. FIXED CAPITAL ASSETS		(in 000 US \$)		Year of purchase	Orig. purchase value	Replace-ment value
	(End of 1967)					
1. Primary production equipment					145	..
total:					138	..
- Process equipment					7	..
- Hand tools and apparatuses	1956/67					
- Cost of installation						
2. Primary industrial buildings				1951/57/58	74	..
total:						
(total floor space: 6,365.13 m ²)						
3. Auxiliary facilities					77	..
total:						
- Water, steam, electricity, cooling and stirring	1954/58/62/63				14	
- Transportation facilities					63	
(total load: .. t)						
- Administrative facilities					-	
- Laboratory facilities					-	
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excl. land):					296	..
4. Other fixed capital assets					14	..
total:					14	..
- Land (total acreage: .. a ²)						

DETAIL OF 1.1. (supplier):	Year of purchase	Orig. purchase value	Replace-ment value
Syrup mixing tank (1) (UK)	1952	2	..
Ice plant (1) (UK)	1952	14	..
Water treatment plant (1) (UK)	1952	7	..
Filter press (1) (USA)	1957	1	..
GEM-4-50 Filter unit (1) (USA)	1958	21	..
Carbo cooler (1) (USA)	1958	24	..
Hydroset bottle washer (1) (USA)	1958	39	..
CO ₂ Gas fittings (USA)	1958	1	..
Syrup room equipment (1) (USA)	1958	8	..
Conveyor (1) (USA)	1958	3	..
Boiler (1) (USA)	1958	5	..
GEM 12 Tumbler sizer (1) (USA)	1958	5	..
Air compressor (1) (USA)	1961	1	..
Mixing vessel (1) (Tanzania)	1964	2	..
Cooling tower (1) (Tanzania)	1966	5	..

HISTORY OF INVESTMENT

The construction of the factory and the trial as well as commercial production was started in 1951. The first profits were made in 1956 when total output reached 423,300 bottles per year.

Investments amounting to US\$ 173,700 were made as follows:
 (in 000 US\$)

1957	11	Additional land
1958	48	Additional building
1959	115	Plant expansion

II. INVENTORIES AND WORKING CAPITAL		(in 000 US \$)	
(End of 1967)		Actual value	Actual value
1. Inventories			
total:		77	223
- Production materials		21	107
- Other input materials		54	-
- Work-in-process		2	-
- Finished products		3	7
2. Liquid assets			
total:		-	109
- Cash (hand/bank)		-	-
- Marketable & bonds		-	-
- Short-term investment		-	-
- Prepaid expenses		-	-
- Accounts receivable		-	-

III. DEPENDED WORKING CAPITAL		No.of months	Value
total:			139
- Production materials		4	99
- Other input materials		4	5
- Other special items		4	24
- Finished products		-	-
- Wages and salaries		1	11

IV. MANNING TABLE		Total	1st shift	2nd shift	3rd shift
(1967 average)		Total	121	36	36
TOTAL EMPLOYED:		173	121	36	36
1. Primary operative shops		114	4	60	25
Bottling dept.		114	4	60	25

V. OPERATIVE WORKERS		1st shift	2nd shift	3rd shift
2. Auxiliary operative units		35	31	1
- Repair and maintenance		5	3	1
- Tooling shop		-	-	-
- Mechanical shop		2	2	-
- Utilities control		1	1	-
- Product and material storage		5	5	-
- Off-site transport		-	-	-
- Guards, cleaners, etc.		2	2	-
- Turnboye		20	20	-
3. Auxiliary non-operative units		24	24	-
- Production management		6	6	-
- Research and development		-	-	-
- Sales unit		10	10	-
- Accounting		-	-	-
- General administration		8	8	-

VI. CAPACITY OF OPERATIVE SHOPS:		WORKING TIME PER OPERATIVE WORKER:
- Normal hours/day:		0
- Normal days/year:		..
- Actual hours/year:	4,817	hours

The bottling department is fully automated.

MANUFACTURED:	Consumed:	Manufactured:	Consumed:
- Domestic exports:	100.9	m	3 installed capacity: - mva

TRANSPORTATION FACILITIES:
 Long distance : fair; local area : excellent

POWER SUPPLY:
 Electricity, water and gas : fair

GENERAL FACILITIES:
 Residential, educational, health and recreational facilities : all fair.

GENERAL INFORMATION: Spun rayon factory. Capable of producing 4,100,000 m² on 2-shift operation.

ESTABLISHMENT: A one-establishment enterprise founded in 1959. Private corporation. Foreign capital participation: 49 %.

I. FIXED CAPITAL ASSETS		(in 000 US \$)		Year of Acquisition	Orig. purchase value	Replace- ment value
(End of 1967)						
1. Primary operating equipment					305	305
- Process equipment				1959	308	305
- Hand tools and apparatuses					-	-
- Cost of installation					-	-
2. Primary industrial buildings				1959	110	126
(total floor space: 3,427 m ²)						
3. Auxiliary facilities					93	..
(total:						
- Water, steam, electricity, cooling and storing					21	..
- Transportation facilities					..	
(total land: ..)					..	
- Administrative facilities					19	..
- Laboratory facilities					33	..
TOTAL PHYSICAL FIXED CAPITAL						
ASSETS (excl. land):					511	..
4. Other fixed capital assets					..	..
(total:						
- Land (total acreage: 7,525 m ²)					..	..
DETAIL OF I.1. (supplier):				Year of Acquisition	Orig. purchase value	Replace- ment value
Weaving looms (190) { 305 Japan, Preparatory machines (72) } 105 PRC	1959	308	305			

DETAIL OF INVESTMENT

Construction of the factory as well as trial and commercial production was first started in 1959.

The first profits accrued in 1961.

Investments since 1961 are only minor.

II. INVENTORY AND WORKING CAPITAL		(in 000 US \$)	
1. Inventories	(End of 1967)	Actual value	Actual value
total:		72	..
- Production materials		48	..
- Other input materials		0.1	..
- Work-in-process		8	..
- Finished products		16	..
- Accounts receivable			..

3. Desired working capital		No. of months	Value	Actual value
Total:				210 (*)
- Production materials		4		
- Other input materials		3		
- Finished products		3		
- Wages and salaries		2		

(*) (100,420.42 finished made from 1.1.1. stocks)

III. WORKING TABLE		Total	1st shift	2nd shift	3rd shift
	(1967 average)	P	C°	P	C°
TOTAL EMPLOYED:	515	296	219	..	..
1. Primary operative staff	306	173	33	192	..
Weaving shop	54	10	18	26	-
Warping shop	32	16	4	12	-
Winding shop	144	71	3	70	-
Beaching-in shop	14	6	1	7	-
Weaving shop	154	70	7	77	-

2. Auxiliary operative units		112	85	71	..
- Repair and maintenance		29	26	3	-
- Tooling shop		-	-	-	-
- Mechanical shop		2	2	-	-
- Utilization control		10	10	-	-
- Product and material storage		42	28	14	-
- Off-site transport		5	5	-	-
- Guards, cleaners, etc.		24	14	10	-

3. Auxiliary non-operative units		5	5	..	..
- Production management		1	1	-	-
- Research and development		-	-	-	-
- Sales unit		-	-	-	-
- Accounting		-	-	-	-
- General administration		4	4	-	-

CAPACITY OF OPERATIVE UNITS:		Normal time per operative hour:
- Weaving department	8 (Date: 5)	hours
- Normal days/year:	257	days
- Actual hours/year:	2,316	hours

The weaving department is moderately automated and mechanized, the other departments are neither automated nor mechanized. This rating is based on normal Asian standard.

RATE OF CAPACITY UTILIZATION

Weaving department	60 %
other departments	50 %

The major reasons for under-utilisation of existing capacity are due to labour problems (60 %), seasonal factors (20 %) and technology (20 %).

GENERAL INFORMATION	214	m ²	GENERAL EQUIPMENT:	- Installed capacity:	- kVA
---------------------	-----	----------------	--------------------	-----------------------	-------

TRANSPORTATION: Road distance and local area: fair

POWER SUPPLY: Electricity, gas: fair; water: poor

HOUSING: Residential: excellent (50 % of workers have own houses provided on loan from company); health and recreational and educational: fair.

V. ANNUAL PRODUCTION

(1968)

Products for group of products

	Yr. of fin. prod.	Quantity produced	Avg. unit price on factory gate US \$	Total output value US \$ 000
	Unit	Unit		
Canned fruits	1925	kg	983,540	0.4
Canned vegetables	1928	kg	734,120	0.3

TOTAL VALUE OF PRODUCTION: 610

VI. VALUE ADDED

(1968)

	Total value US \$ 000
1. Annual wages & salaries	77
- Operative workers (44 persons)	56
- Non-operative workers (8 persons)	21
2. Other payments for employees	
3. Annual depreciation	15
- Machinery & equipment	8
- Buildings & other facilities	2
- Non-physical capital assets	-
4. Rentals paid	
5. Interest & royalties	2
6. Sales tax	9
7. Other indirect business taxes (*)	7
8. (-) Subsidies	2
9. Corporate income before tax	-

(*) Motor vehicle tax. TOTAL VALUE ADDED: 150

DESCRIPTION OF MAJOR PRODUCTS:

Fruits and vegetables, canned or bottled.

MARKET ASPECTS:

Consumers of products:

Wholesalers, servicing bakeries and pastry shops; chain stores.

Sales organisation:

Sales agents as well as a co-operative purchasing agency for bakeries.

Share in the domestic market:

Less than 1%.

Competition in the market:

Mainly competing with other domestic consumers.

EXPORT:

Total annual export: US \$ 6,500.

Major products	To Western Europe	To Eastern Europe	To Developing countries
Canned fruits	100%	-	-
Canned vegetables	100%	-	-

Export price policy:

Export prices are adapted to EEC-market prices.

VII. ANNUAL CONSUMPTION

(1968)

	Quantity consumed	% import	Average import duty (000 US \$)	Total consumption value US \$ 000
	Unit	Unit		
1. Energy and water				
TOTAL:				7
- Electricity	600 mwh	55	-	3
- Light fuel oil	1	93	-	2
- Water	000 m3	4 (*)	-	2
(*) Net including internal supply of 8,000 m3.				

2. Production materials

TOTAL:

- Fruits	1	1,180	-	181
- Vegetables	1	930	-	163
- Preservatives	1	28	-	8

3. Other materials & supplies

TOTAL:

- Packaging material	54
- Parts, supplies & services	3
- Other materials & supplies	3

4. Business services purchased

TOTAL:

- Transportation, storage & insurance	21
- Communication, advertising & other business services	25

5. Work performed by subcontractors

TOTAL:

	-
--	---

TOTAL VALUE OF CONSUMPTION: 460

IV. ANNUAL PRODUCTION (in 000 US \$)

(1967)
Products (or items of products)

	Yr. of first produced	Quantity 000 m ²	Nominal capacity output unit	Unit price at factory (US \$)	Total production value
Spun rayon fabrics	1959	2,493	4,100	0.45/m ²	1,122
Yarn waste		..	..	..	4
Total value of production					1,126

Competitive imports

C.i.f. price of competitive import amounts to US\$ 0.34 per unit. The protective tariff rate being imposed on imported products is 100% ad valorem.

V. ANNUAL CONSUMPTION (in 000 US \$)

(1967)

1. Power and water

	Quantity	%	Tariff	Total consumption value
Electricity	000 kwh	—	—	20
Solid fuels: charcoal	t	..	..	12
Liquid fuels and lubricants: diesel oil	gallons	7.3	1	4
Water	lubricants	16,317	free	3
	gallons	800	..	..
	gallons	..	..	478

2. Production materials

	Quantity	%	Tariff	Total consumption value
Spun rayon yarn	t	440.5	100	443
Rayon stuffs	t	7.5	100	26
Chemicals	t	2.5	100	5
Starch	t	16.5	100	4

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COMPANY (in US \$)

(1967)

	No. of establishments	No. of employees	Avg. size	Avg. gross prod. val.	Avg. exp./ gross prod. val.	IHSO-code
10 - 19	3	77	..	..	..	22
20 - 49	23	666	..	..	..
50 - 99	33	3,951	..	..	..
100 - 499	76	15,381	..	..	..
over 500	3	1,674	..	..	..
Total	128	21,011	170	3,432	..	

3. Size groups by scale of production of
manufactured goods

Up to	2
2 - 5	0
5 - 10	0
10 - 20	40
20 - 50	120
50 - 100	240
100 - 200	400
200 - 500	400
500 - 1,000	1,000
1,000 - 4,000	4,000
over 4,000	0

total

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

Government policies

Government grants import licenses for input materials to manufacture up to 2,500,000 m² of fabrics.

The company reports that the income tax was too high and that the excise duty on finished goods was undesirable.

Major Products: Rayon and synthetic-fibre fabrics. Capable of producing annually more than 1,000,000 yards on 3-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1966, 50% foreign capital participation. 45% exports.

I. FIXED CAPITAL ASSETS		Year of installation	Orig. purchase value	(*) Replacement value
	(End of 1967/68)		(1000 US \$)	(1000 US \$)
1. Primary process equipment				
TOTAL			1,143	1,021
- Process equipment			1,143	943
- Hand tools & apparatuses			40	42
- Cost of installation		Incl. above		Incl. above
2. Primary industrial building		1967	384	341
TOTAL			384	341
(total floor space: .. m ²)			384	341
3. Auxiliary facilities			252	201
TOTAL			252	201
- Water, steam, electricity, cooling & storing	1967	216	191	
- Transportation facilities	1967	-	-	
- Administrative facilities	1967	33	29	
- Laboratory facilities		-	-	
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land)			1,579	1,363
4. Other fixed capital assets			120	120
TOTAL			120	120
- Land (total acreage: 1/1,640 m ²)			120	120
DETAIL OF PROCESS EQUIPMENT (in):	Supplier country	Year of installation	Orig. purchase value (1000 US \$)	(*) Replacement value (1000 US \$)
- Warper machine	Japan	1967	21	21
- Jemmy machine	"	"	62	62
- 74" loom	"	"	202	150
- 67" loom	"	"	1,103	1,000
- Winding machine (20 spindles)	"	"	6	2
- Spinning machine	"	"	-	2
- Dyeing and finishing equipment	"	"	323	630

HISTORY OF INVESTMENT:

Construction of the factory started in 1966. Trial as well as commercial production started in 1967. Profits accrued for the first time in May 1968 when 50% of the capacity were utilized.

ADVANTAGES CONNECTED WITH THE PARTICIPATION OF FOREIGN CAPITAL:

- Employment of foreign high level technicians.
- Import of patents and "know-how".

(*) "Replacement value" in this case stands for "resale value" rather than the purchase value of new functional equivalents.

CAPACITY POWER: Process equipment: Total capacity power	1,000 kW	Generating equipment Installed capacity	- kVA
--	----------	--	-------

EXTERNAL CONDITIONS
Transport: Long distance and local area, excellent.

Utilities: Electricity, water and gas, excellent.

Community: -

II. INVENTORIES AND WORKING CAPITAL (in 1000 US \$)

(1967/68 Annual average)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL	520	TOTAL	772
- Production materials	240	- Cash (hand/bank)	240
- Other input materials	45	- Market. sec. & bonds	215
- Work-in-process	71	- Short-term investment	11
- Finished products	114	- Prepaid expenses	256
		- Accounts receivable	256

3. Desired working capital

TOTAL	Number of months	Months
TOTAL		896.8
- Production materials	3	267
- Other input materials	3	52
- Finished products	1	46
- Wages & salaries	2	53
- Other special items	1	-

III. MANNING TABLE

(1967/68 average)	(number of persons)			
	Total	1st shift A	2nd shift B	3rd shift A+B
ALL SHOPS & UNITS:	590	207	97	82
1. Primary operative shops	305	88	38	97
- Weaving department	20%	53	19	67
- Dyeing department	100	35	19	30
				16

2. Auxiliary operative units

	25	25	-	-
- Repair and maintenance	-	-	-	-
- Mechanical shop	-	-	-	-
- Utilities control	-	-	-	-
- Product & material storage	-	-	-	-
- Off-site transport	-	-	-	-
- Guards, cleaners, etc.	-	-	-	-
- Others (auxiliary workers)	25	25	-	-

3. Auxiliary non-operative units

	56	56	-	-
- Production management	-	-	-	-
- Research & development	29	29	-	-
- Sales unit	-	-	-	-
- General administration	27	27	-	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day	8	hours	Normal days/year	312	days
Actual hours/year	2,946	hours			

CAPACITY OF OPERATIVE SHOPS:

See page 2 IV.

IV. ANNUAL PRODUCTION(1967/68)
Product for group of products

	Yr. of prod.	Quantity produced	Nominal capacity output	Unit value	Total production value
		Unit	Output	US \$	US \$
- Polyester and rayon fabrics	1967	yds.	1,312,666	2,187,770	1.62
					2,126

TOTAL VALUE OF PRODUCTION

2,126

COMPETITIVE IMPORTS:

Polyester and rayon fabrics are imported at a c.i.f. price of US \$ 2.02 per yard.

Protective tariff rate amounts to US \$ 2.92.

EXPORTS:

45% of total production is exported at unit price between US \$ 1.68 and US \$ 1.73.

Great importance of the free trade area of the Central American Common Market.

CAPACITY UTILIZATION:

Only 60% of the nominal capacity output could be reached due to first year of operation.

VI. VALUE ADDED

(1967/68)	Value (US \$)
1. Wages & salaries	
- Employees in direct production (350 persons)	259
- Other employees (.. persons)	84
2. Other payments for employees	30
3. Annual depreciation	156
4. Rentals paid	?
5. Interest & royalties	95
6. Sales tax	-
7. Other Ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	119
	745

VII. MONTHLY EARNING RATES

(End of 1967/68)	No. of pers. empl.	Average earning per month US \$
1. Local non-operatives		
TOTAL:	11	126
- Managers	-	-
- Engineers	-	-
- Technicians	1	260
- Accountants	2	260
- Sales officers	1	260
- Other professional staff	3)
- Clerks & typists	4	120
2. Local operatives		
TOTAL:	..	..
- Supervisors	-	-
- Foremen	4	120
- Machine operators	..	60
- Craftsmen	..	100
- Truck drivers	?	70
- Other full-time operatives	..	50
- Unskilled & part-time operatives	..	36
3. Foreign employees		
TOTAL:	8	647
- Managerial staff	1	760
- Engineers, trainers and other technical control staff	3	686
- Other non-operatives	4	590
4. Other materials & supplies		
TOTAL:	159	75
- Packagings	10	30
- Repair & maintenance	100	40
- Non-factor service inputs	5	5
5. Business services purchased		
TOTAL:	..	10
- Transport, storage & insurance	10	
- Communication, advertisements, etc. (included in the selling expenses)	..	
6. Work performed by sub-contractors		
TOTAL:	..	-
		1,381

V. ANNUAL CONSUMPTION

(1967/68)

1. Energy and water

	Quantity consumed	% Imported	Total consumption value
	Unit	Purchase	US \$
TOTAL			73
- Electricity	000 Kwh	..	31
- Liquid fuels and lubricants	000 l	..	2
- Gas	000 m³	..	19
- Steam	000 m³	..	18
- Water	000 m³	..	3

2. Production materials

			Total consumption value
			US \$
TOTAL			1,223
- Synthetic fibres	lbo	587,744	100
- Polyester and rayon	"	..	97
- Dyes	"	..	41
- Chemicals	"	..	21
- Resins and gumming	"	..	..

3.

Other materials & supplies

	Total consumption value
	US \$
TOTAL:	159
	75

TOTAL:

- Packagings 10 30

- Repair & maintenance 100 40

- Non-factor service inputs 5 5

4. Business services purchased

TOTAL:

- Transport, storage & insurance 10

- Communication, advertisements, etc. (included in the selling expenses)

5. Work performed by sub-contractors

TOTAL:

- 1,381

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(196)

Industry group: -

1. One group, 1 to 4 number of pers. employed up to	Number of shifts	Number of empl.	Ave. W. & S.	Ave. prod. val. per pers. US \$	Ave. exp. prod. ratio (%)	(ISIC:)

No data available.

TOTAL

2. One group by size of annual production US \$ up to

IX. SUPPLEMENTSFuture plan:

Within a period of 2 years approx. US \$ 104,920 will be invested to expand the weaving and finishing departments.

100 persons are to be employed additionally on the 1st shift, 100 on the 2nd shift and 50 on the 3rd shift.

48 new looms will be purchased.

Major Products: Cotton fabrics and gray goods. Actual output in 1966 approximately 15 million m., 3-shift operation.

Marketing Unit: A centralised multi-factory enterprise, founded in 1919; private corporation, no participation of foreign capital.

IV. ANNUAL PRODUCTION

(1966)	Vt. of final prod.	Quantity produced	Wasted capacity output	Unit price in factory US \$	Total production value US \$
Products (or group of products)	Unit	Output			1000 US \$
- Cotton fabrics (weighing from 80 to 210 g/m ²)	..	10,830,000	..	0.22	2,382.5
- Gray goods	..	4,252,000	..	..	..
TOTAL VALUE OF PRODUCTION			

COMPETITIVE IMPORTS:

The c.i.f. price of US \$ 0.38/kg is subject to a tariff rate of US \$ 2.50 per kg and of 10% ad valorem.

EXPORTS:

5,740,000 m² of cotton fabrics were exported at a price of US \$ 0.22/m².

Specific collateral benefits connected with exports: Free trade among member countries of the Central American Common Market and protection of this market by relatively high duties for products from non-member countries.

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed			Total consumption value US \$	
	Unit	Period	% Imported	1000 US \$	1000 US \$
1. Energy and water					
TOTAL:				178	
- Electricity	000 Kwh	..		134	
- Fuels and lubricants	000 l	..		44	
2. Production materials				1,059	
TOTAL:					
- Cotton	bales	7,771	-	954	
- Dyes	..	..	100 per kg and 10% ad valorem	48	
- Chemicals	..	..	100	"	13
- Finishing operations	..	..	100	"	44

VII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1966)

Industry group: -

1. Size groups by number of persons employed	Number of units	Av. no. of emp.	Av. gross prod. val.	Av. exp. gross prod. ratio (%)	(INC:)
up to					

No data available.

TOTAL: _____

2. Size groups by
value of annual production
US \$

up to

TOTAL: _____

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1966)	Value (1000 US \$)
1. Wages & salaries	
- Employees in direct production	664
- Other employees	103
(911 persons)	
(38 persons)	
2. Other payments for employees	-
3. Annual depreciation	637
4. Rentals paid	-
5. Interest & royalties	107
6. Sales tax	-
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	209
TOTAL:	1,720

VIII. MONTHLY EARNING RATES

No. of pers. empl.	Average earning rate US \$
(End of 1966)	
1. Local non-operatives	
TOTAL:	21
- Managers	1
- Engineers	-
- Technicians	2
- Accountants	13
- Sales officers	-
- Other professional staff	2
- Clerks & typists	3
TOTAL:	178
2. Local operatives	
TOTAL:	201
- Supervisors	-
- Foremen	-
- Machine operators	-
- Craftsmen	57
- Truck drivers	-
- Other full-time operatives	144
- Unskilled & part-time operatives	-
TOTAL:	65
3. Foreign employees	
TOTAL:	4
- Managerial staff	1
- Engineers, trainers and other technical control staff	3
TOTAL:	825
4. Business services purchased	
TOTAL:	-
- Transport, storage & insurance	16
- Communication, advertisements, etc.	110
TOTAL:	-
5. Work performed by sub-contractors	
TOTAL:	-
TOTAL:	1,363

X. SUPPLEMENTS**Future plan:**

Within a 5 years' period approx. US \$ 1,200,000 will be invested to expand the spinning and weaving departments.

150 persons are to be employed additionally on the 1st shift, and 100 on the 2nd and 3rd shifts, each.

Major Products:

Woolen yarn, fabrics, blankets, etc.
Capable of producing approximately 550 t annually, based on 3-shift operation.

Reporting Unit:

An old one-establishment enterprise; privately owned; founded in 1888.

I. FIXED CAPITAL ASSETS

(End of 1966)		Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$
1. Primary process equipment				
TOTAL		1965	1,125	..
- Process equipment			1,125	-
- Hand tools & apparatuses			-	-
- Cost of installation			-	-
2. Primary industrial building				
TOTAL		1965	235	..
(total floor space: 40,000 m ²)			235	..
3. Auxiliary facilities			164	..
TOTAL			164	..
- Water, steam, electricity, cooling & storing	1957	96	96	
- Transportation facilities	1966	12	12	
- Administrative facilities	1966	66	66	..
- Laboratory facilities		-	-	
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):			2,124	..
4. Other fixed capital assets				
TOTAL			-	-
- Land (total acreage: 200,000 m ²)				

DETAIL OF PROCESS EQUIPMENT (in t):	Supplier country	Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$
Spinning frames	FR.Germ.	(*)	541.9	
Cards	FR.Germ.		152.1	
Looms	USA		462.6	
Finishing equipment	FR.Germ.		354.5	..
Dyeing equipment	Italy, FR.Germ.		150.3	
Warpers	FR.Germ.		58.7	

(*) Years of installation of equipment are varying, but the bulk of the "original purchase values" represents the investments made in the recent past. See below.

HISTORY OF INVESTMENT:

The construction of the factory was first started in 1888. The first trials as well as commercial production, started in 1888. The following investments for renovation purposes have been made recently:

1961 approx. US \$ 163,000 * Weaving and spinning
1963 " " 478,000 " " "
1966 " " 144,000 Finishing and dyeing

* Not yet included in the figures for the year of reference for this profile.

CAPACITY POWER: Process equipment: - Electric motor:	Generating equipment: Installed capacity - kVA
.. kW	- kVA

EXTERNAL CONDITIONS:

Transport: Long distance, local area, excellent.

Utilities: Electricity, water, fair.

Community: Residential, health and recreational, educational, fair.

II. INVENTORIES AND WORKING CAPITAL

(in 1000 US \$)

(End of 1966)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL	2,310	TOTAL	1,764
- Production materials	844	- Cash (hand/bank)	66
- Other input materials	87	- Market. sec. & bonds	5
- Work-in-process	1,056	- Short-term investment	745
- Finished products	323	- Prepaid expenses	52
		- Accounts receivable	897

3. Desired working capital

Number of months	Value
TOTAL	5,280
- Production materials	960
- Other input materials	240
- Finished products	2,400
- Wages & salaries	640
- Other special items	1,040

III. MANNING TABLE

(number of persons)

(1966 average)

Total	1st shift	2nd shift	3rd shift	
A	B	A+B	A+B	
ALL SHOPS & UNITS:	517	400	74	43

1. Primary operative shops

399	264	18	63	11	37	6
- Woolen spinning	29	16	2	10	1	-
- Worsted spinning	95	42	5	25	3	18
- Weaving department	117	48	11	28	7	19
- Finishing department	63	63	-	-	-	-
- Control department	95	95	-	-	-	-

2. Auxiliary operative units

53	53	-	-
- Repair and maintenance	3	3	
- Mechanical shop	5	5	
- Utilities control	2	2	
- Product & material storage	2	2	
- Off-site transport	2	2	
- Guards, cleaners, etc.	3	3	
- Others (part-time)	36	36	

3. Auxiliary non-operative units

65	65	-	-
- Production management	28	28	
- Research & development	10	10	
- Sales unit	7	7	
- General administration	20	20	

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day:	8	hours	Normal days/year:	205	days
Actual hours/year:	2,280	hours			

CAPACITY OF OPERATIVE SHOPS:

The installed capacities of different operative shops are considered to be well balanced. But part of the finishing and mending work is done by subcontractors. (See V.5.)

IV. ANNUAL PRODUCTION

(1966) Product by group of products	Yr. of prod.	Quantity produced Unit	Output	Nominal capacity output	Unit % price on factory RS \$	Total production value 1966 US \$
- Woollen cashmeres	1920	t	165.7	200	10.88/kg	1,803
- Woollens	1888	t	68.9	100	7.12/kg	491
- Blankets	1885	t	117.9	150	5.76/kg	679
- Worsted yarn	1920	t	52.1	100	8.40/kg	438
- Miscellaneous and scraps			..	..		225

TOTAL VALUE OF PRODUCTION3,636

* Nominal capacity output is estimated on a 3-shift basis for the spinning and weaving department.

** Not including sales tax.

REPORTS: None.

CAPACITY UTILIZATION: The overall rate of utilisation is 75%, as against the nominal maximum production capacity. But the reporting enterprise considers this much rate of utilisation as being normal.

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed	Unit	Purchase	% Imported	Total consumption value 1966 US \$
1. Energy and water TOTAL:					69
- Electricity	000 kWh		3,120		51
- Liquid fuels and lubricants	000 l		1,300		18

2. Production materials

TOTAL					
- Wool	t	504.5	70		1,374
- Chemicals	t	37.3	-		155

VI. VALUE ADDED

(1966)	Value 1966 US \$
1. Wages & salaries	
- Employees in direct production (482 persons)	726
- Other employees (65 persons)	375
2. Other payments for employees	36
3. Annual depreciation	167
4. Rentals paid	102
5. Interest & royalties	107
6. Sales tax (not incl. in TOTAL)	(12)
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	110

1,623
*******VII. MONTHLY EARNING RATES**

No. of per. empl.	Average earning rate US \$
(End of 1966)	
1. Local non-operatives	
TOTAL:	33 465
- Managers	4 1,600
- Engineers	- -
- Technicians	- -
- Accountants	5 480
- Sales officers	5 480
- Other professional staff	7 320
- Clerks & typists	12 160
2. Local operatives	476 175
TOTAL:	
- Supervisors	3 800
- Foremen	15 520
- Machine operators	437 160
- Craftsmen	13 160
- Truck drivers	2 160
- Other full-time operatives	
- Unskilled & part-time operatives	6 120
3. Foreign employees	8 690
TOTAL:	
- Managerial staff	1 1,600
- Engineers, trainers and other techn. control staff	7 560

Total
consumption
value
1966 US \$101

3. Other materials & supplies

TOTAL:	
- Packaging	30
- Repair & maintenance	51
- Non-factory service inputs	20

4. Business services purchased

TOTAL:	
- Transport, storage & insurance	17
- Communication, advertisements, etc.	102

5. Work performed by sub-contractors

TOTAL:	
	196

2,013
*******VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY**

(1965) Industry group: Spinning, weaving and finishing textiles (HNC: 231)

1. Size groups by number of persons employed	Number of units	Number of empl.	Av. per unit	Av. per empl.	Av. exp. per unit	Av. exp. per empl.
up to 25	802	7,456	764	6,226	90	
26 - 75	334	15,397	1,051	7,933	73	
76 - 100	79	6,986	1,047	6,499	73	
101 - 250	105	28,633	1,122	6,417	90	
over 250	118	59,811	1,332	5,472	89	
TOTAL	1,518	118,281	1,192	6,129	96	

2. Size groups by value of annual production 1965 US \$	Number of units	Value of annual prod.	Value of annual prod. per unit	Value of annual prod. per empl.
up to 40	1,115	5,643	364	1,308
40 - 120	231	7,663	608	2,887
120 - 240	156	8,933	743	3,006
240 - 400	116	8,772	994	4,172
400 - 1,600	272	36,613	1,160	6,306
over 1,600	120	51,532	1,084	7,886
TOTAL	2,010	119,156	1,183	6,090

* Capital is defined as physical capital assets.

X. SUPPLEMENTS

Commission work: Inspection and mending are done by sub-contractors. (Family enterprises)

Future plan: Within a period of 5 years, approximately US \$ 1,200,000 will be invested for expansion of the spinning and weaving departments.

Government policies: No particular observations.

MEXICO : 231-(2)

Major Products:

Synthetic-fibre fabrics (spinning, weaving and finishing). Annual capacity output is approximately 3,500,000 - 4,000,000 m of finished fabrics based on 3-shift operation.

Reporting Unit:

A one-establishment enterprise, founded in 1948; private corporation with no foreign capital participation.

I. FIXED CAPITAL ASSETS

(End of 1967)

1. Primary process equipment

TOTAL:

- Process equipment 2,404
- Hand tools & apparatuses -
- Cost of installation -

Year of installation	Orig. purchase value 1000 US \$	Replacement value 1000 US \$
	2,404	..
- Process equipment	2,404	..
- Hand tools & apparatuses	-	
- Cost of installation	-	

2. Primary industrial building

TOTAL:

- (total floor space: 15,000 m²) 559
- 559 ..

3. Auxiliary facilities

TOTAL:

- Water, steam, electricity, cooling & storing -
- Transportation facilities 50 ..
- Administrative facilities 107
- Laboratory facilities -

TOTAL PHYSICAL FIXED CAPITAL ASSETS

(including land):

16119

4. Other fixed capital assets

TOTAL:

- Land (total acreage: 175,000 m²) 10 ..

DETAIL OF PROCESS EQUIPMENT (incl.: Supplier country)

Year of installation

Orig. purchase value
1000 US \$Replacement value
1000 US \$Spinning plant: Scutchers(2), Cards (17), Drawers (2) Speed frames (11)

Spinning frames (34)

Weaving plant: Cone winders (5), Twisters (20), Firm winders (2)
Warper (1), Sizing machine (1), Looms (138)Dyeing and finishing plant:

Washers (4), Boil off (1), Winches (15), Jiggers (2)
Beater (1), Pre-drier (1), Clip frame (1), Singeing
machines (2), Curing oven (1), Press (1), Decatizer (1)
Shearing machine (1), Needle frame (1) others (1)

Primary process equipment supplied by U.S.A. in 1948

HISTORY OF INVESTMENT:

The factory was constructed in 1945; the first trial production started in 1947 and the first commercial production started in 1948. The factory made its first profits in 1950. The following investments for expansion purposes were made:

1950	approx	U.S.	\$ 50,520	Spinning department
1950	"	"	\$ 19,600	Weaving department
1952	"	"	\$ 1,980	Power plant
1964	"	"	\$ 11,340	Weaving department
1965	"	"	\$ 174,320	"
1966	"	"	\$ 261,00	Dyeing and finishing department

CAPACITY POWER:

Power equipment:

Electric motors 1,100 kW
- Other prime movers 1,600 "

Generating equipment:

Installed capacity - kVA

EXTERNAL CONDITIONS:

Transport: Long distance and local area, excellent.

Utilities: Electricity, fair; water, gas, excellent.

Community: Residential, health and recreation, educational, excellent

II. INVENTORIES AND WORKING CAPITAL

(in 1000 US \$)

(End of 1967)

1. Inventories

TOTAL:

2,403

2. Liquid assets

TOTAL: 1,175

- Production materials 226
- Other input materials 156
- Work-in-process 797
- Finished products 1,224

- Cash (hand/bank) 224
- Market sec. & bonds -
- Short-term investment 442
- Prepaid expenses 30
- Accounts receivable 479

3. Desired working capital

TOTAL:

2,541

- Production materials 1 153
- Other input materials 1 54
- Finished products 3 976
- Wages & salaries 1 146
- Other special items .. 1,212

III. MANNING TABLE

(number of persons)

A = Machine operators
B = Other operators

(1967 average)

Total 1st shift 2nd shift 3rd shift

A-B A-B A-B A-B

ALL SHOPS & UNITS: 505 346 111 116

1. Primary operative shops 369 164 - 105 100

Preparation of yarn 39 14 13 12

Spinning 113 49 30 34

Preparation of fabric 60 21 21 18

Weaving 101 49 24 28

Dyeing 21 9 7 5

Finishing 35 22 10 3

2. Auxiliary operative units

83 51 22 10

- Repair and maintenance 7 6 1 -
- Mechanical shop 22 13 6 3
- Utilities control 18 13 3 2
- Product & material storage 18 10 5 3
- Off-site transport 2 2 - -
- Guards, cleaners, etc. 6 2 2 2
- Others 10 5 5 0

3. Auxiliary non-operative units

143 131 6 6

- Production management 18 6 6 6
- Research & development - - - -
- Sales unit - - - -
- General administration 125 125 - -

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day 8.5 7 hours shift 1 2 3 days

Actual hours/year 2465 2465 2030 hours Normal days/year 290 290 290 days

CAPACITY OF OPERATIVE SHOPS:

Number of spindles in the spinning department is 22,000; the capacity utilization rate is 95%. No special automation techniques are employed.

IV. ANNUAL PRODUCTION

(1967)	Vrs. of first prod.	Quantity produced		Normal capacity output	Unit + price at factory RSO \$	Total + production value RSO US \$
Product (or group of products)		Units	Output			
Polyester - wool fabrics	1967	m	92,000	..	2.3	212
Polyester - rayon fabrics	"	m	958,000	..	1.6	1,533
Rayon - acetate fabrics	"	m	1,961,000	..	1.2	2,353
Polyester - cotton fabrics	"	m	166,000	..	2.2	365
Others	"	m	77,000	..	1.1	252
Net annual accumulation of inventories of finished goods				+ 115		
					TOTAL VALUE OF PRODUCTION:	4,825

* Does not include sales tax

** The value of each item corresponds to the annual sales, not adjusted for inventory change.
Total value of production is therefore adjusted for the net annual accumulation of inventoriesSuperior: NoneCapacity utilization:

The overall rate of utilization, on a 3-shift basis, is estimated to be around 89% - which is considered quite normal and acceptable for current business purposes.

V. ANNUAL CONSUMPTION

(1967)		Quantity consumed		Total consumption value RSO US \$
		Units	Per cent	
1. Energy and water				
TOTAL:				168
- Electricity	000 Kwh	7,536	-	122
- Petroleum, crude	000 l	3,000		41
- Gas	000 m ³	540		5
2. Production materials				
TOTAL:				1,811
- Wool fibre	t	13.5		41
- Rayon fibre	"	607.9		523
- Acetate fibres	"	192.0		220
- Polyester fibres	"	136.0	Mostly imported	372
- Dyeing material	"	120.0		61
- Yarn	"	38.0		227
- Others (amiline, chemicals)	"			389

VI. VALUE ADDED

(1967)	Value RSO US \$
1. Wages & salaries	
- Employees in direct production (451 persons)	573
- Other employees (144 persons)	448
2. Other payments for employees	581
3. Annual depreciation	192
4. Royalty paid	-
5. Interest & royalties	86
6. Sales tax (not incl in TOTAL)	(36)
7. Other ind. inv. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	463
	2,343

VII. MONTHLY EARNING RATES

No. of per. empl.	Average earning RSO \$
(End of 1967)	
1. Local non-operative	
TOTAL:	..
- Managers	.. confidential
- Engineers	.. "
- Technicians	.. "
- Accountants	3 720
- Sales officers	- -
- Other professional staff	- -
- Clerks & typists	125 144
2. Local operatives	
TOTAL:	66 111
- Supervisors	1 720
- Foremen	13 320
- Machine operators	432 104
- Craftsmen	3 376
- Truck drivers	4 184
- Other full-time operatives	11 64
- Unskilled & part-time operatives	- -
3. Foreign employees	
TOTAL:	2 880
- Managerial staff	1 1,120
- Engineers, trainers, other tech. control staff	1 640

Total consumption value RSO US \$	
393	
4. Business services purchased	
TOTAL:	88
- Transport, storage & insurance	28
- Communication, advertisements, etc.	59
5. Work performed by sub-contractors	
TOTAL:	-
	2,482

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)
Industry group: Spinning, weaving and finishing textiles (ISIC: 231)

1. Size groups by number of persons employed	Number of units	Number of empl.	Ave. W. &. S.	Ave. gross prod. val. RSO \$	Ave. exp. gen. prod. RSO \$
up to 25	802	7,456	764	6,226	91
26 - 75	334	15,397	1,051	7,333	73
76 - 100	79	6,986	1,047	6,499	73
101 - 250	185	28,633	1,122	6,417	90
over 250	118	59,811	1,332	5,472	89
TOTAL	1,518	118,283	1,192	6,129	86
2. Size groups by value of annual production RSO US \$					
up to 40	1,115	5,643	364	1,308	95
40 - 120	231	7,663	608	2,287	130
120 - 240	156	8,933	743	3,006	118
240 - 400	116	8,772	994	4,172	93
400 - 1,600	272	36,613	1,160	6,306	81
over 1,600	120	51,532	1,484	7,886	83
TOTAL	2,010	119,156	1,183	6,090	86

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

GOVERNMENT POLICIES:

No particular observations.

FUTURE PLAN:

Within a period of 5 years approximately U.S. \$2,000,000 will be invested. This investment will affect the spinning, weaving and finishing department.

Major Products: Cotton and synthetic-fibre fabrics.
Capable of producing annually up to 11,250,000 m² of fabrics based on 3-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1946; privately owned; no foreign capital.

I. FIXED CAPITAL ASSETS		Year of installa- tion	Orig. pur- chase value US \$ '66	Replacement value US \$ '66
(End of 1966)				
1. Primary process equipment				
TOTAL			4,328	6,808
- Process equipment		1947-1966	3,680	6,000
- Hand tools & apparatuses			8	8
- Cost of installation			640	800
2. Primary industrial building			456	..
TOTAL		(total floor space: 20,000 m ²)	456	..
3. Auxiliary facilities			416	..
TOTAL				
- Water, steam, electricity, cooling & storing		1946	352	..
- Transportation facilities		to		..
- Administrative facilities		1965	64	
- Laboratory facilities				
TOTAL PHYSICAL FIXED CAPITAL ASSETS			5,200	..
(including land):			-----	-----
4. Other fixed capital assets			24	..
TOTAL			24	..
- Land (total acreage: 25,000 m ²)			24	..

DETAIL OF PROCESS EQUIPMENT (no.):		Supplier country	Year of installa- tion	Orig. pur- chase value US \$ '66	Replacement value US \$ '66
Battery frames	2				
Cards	60				
Drawing frames	10				
Combers	14				
Speed frames	66	USA	1947 to 1966	3,680	6,000
Twisters	9				
Warpers	5				
Sizing machines	2				
Looms	444				

HISTORY OF INVESTMENT:

The construction of the factory was first started in 1946. The first commercial production started in 1948. The factory made its first profits in 1949. During the period from 1948 to 1966 approximately US \$ 3,360,000 were invested for expansion of the production facilities.

CAPACITY POWER:	Generating equipment:
Process equipment:	Installed capacity: - kVA
- Electrical motor: 2,239 kW	

EXTERNAL CONDITIONS:	
Transport:	Long distance and local area, excellent.
Utilities:	Electricity, excellent; water, fair.
Community:	Residential, health and recreational, fair; educational, poor (but has no significant influence on production efficiency as production process is highly mechanized).

II. INVENTORIES AND WORKING CAPITAL In 000 US \$

(End of 1966)	
1. Inventories	Actual value
TOTAL	1,810
- Production materials	280
- Other input materials	330
- Work-in-process	200
- Finished products	1,000
2. Liquid assets	Actual value
TOTAL	2,856
- Cash (hand/bank)	56
- Market. sec. & bonds	-
- Short-term investment	-
- Prepaid expenses	400
- Accounts receivable	2,400

3. Desired working capital Number of months Value

TOTAL:	
- Production materials	
- Other input materials	
- Finished products	
- Wages & salaries	
- Other special items	

III. MANNING TABLE		Number of persons		A - Master operator	B - Other operator
		Total	1st shift	2nd shift	3rd shift
		A	B	A+B	A+B
(1966 average)					
ALL SHOPS & UNITS:		766	349	231	186
1. Primary operative shops		711	318	218	175

- Department of preparation, spinning and weaving:

Operatives	580	253	183	144
Substitutes	131	(distributed over three shifts as required, e.g.)		
	65	-	35	31

2. Auxiliary operative units		54	30	13	11
- Repair and maintenance		23	15	5	3
- Mechanical shop		-	-	-	-
- Utilities control		-	-	-	-
- Product & material storage	24	13	6	5	
- Off-site transport	-	-	-	-	-
- Guards, cleaners, etc.	7	2	2	3	

3. Auxiliary non-operative units		1	1	-	-
- Production management		1	1		
- Research & development		-	-		
- Sales unit		-	-		
- General administration		-	-		

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day:	7.5	hours	Normal days/year:	300	days
Actual hours/year:	2,280	hours			

CAPACITY OF OPERATIVE SHOPS:

There are 22,000 spindles used.

The design of fabrics according to orders.

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (a.i.):	Number	Original Purchase Value (1960 US \$)	Replace- ment value (1960 US \$)	Av. Age (yr.)	Remarks	
					SH	Further details:
Stalk removing machines	6	14	17	5	-	
Stoning machines	4	18	22	6	SH	
Steriliser and boiling facilities	1	13	15	3	-	
Peeling machines	2	9	11	4	SH	
Canning machines	2	3	4	2	SH	
Juice separators	2	2	3	3	SH	
Lift trucks	4	7	8	4	SH	
Fork truck	1	6	7	3	SH	
Other machines (e.g. testing machines for cane and jars)	..	17	20	3	SH/Ob	

CAPACITY POWER:

Process equipment:
electric motors kW 132Generating equipment:
installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		C modern standard	D appreciably short of today's standard	E considerably high standard	F almost automated	Automation:	
		Mechan.	Auton.					I fully automated	II semi-automated
Production department		C	II						
Packing department		C	II						

CAPACITY UTILIZATION:

Full-capacity output: Approximate US \$ 1 million based on seasonal 1-shift operation; could be reached with 3 additional non-operatives and 20-25 operatives.

Current utilization: based on seasonal 1-shift operation.

Major products (or processes)	Approximate %							
	10	20	30	40	50	60	70	80
Production	x							
Packing		x						

Utilisation of plant capacity depending on harvest and supply of seasonal labour.

IX. HISTORY & PLAN

1. Performance in the past:	Total output (1960 US \$)		No. of persons employed	Total exports (1960 US \$)
	Year:	Approximate output		
1963	570		61	-
1964	590		63	-
1965	700		64	-
1966	550		57	-
1967	680		55	3
1968	610		52	7

2. Investments in the past:	Approximate amount (1960 US \$)		Type of investment	
	From 1960 to 1962 :	50	Buildings, machinery and equipment.	
" 1965 " 1967 :	60		Machinery and equipment.	
in 1968 :	60		Expansion of machinery.	

3. Future Plan:	Approximate amount (1960 US \$)		Type of investment	
	From 1969 to 1970 :	40	Retooling/alteration of machinery and equipment, primary and auxiliary production facilities in order to reduce labour costs. Expansion of auxiliary production facilities.	

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in total.

(1962) Food manufacturing industries, including
Industry beverage industries.

(ISIC-Code: 20; 21)

1. Size groups by number of persons employed	No. of units	No. of empl.	Av. W. &. S. per pers. (1960 US \$)	Av. sales per pers. (1960 US \$)	Av. value added/sales ratio (%)	2. Size groups by annual value of sales		Av. W. &. S. per pers. (1960 US \$)	Av. sales per pers. (1960 US \$)	Av. value added/sales ratio (%)
						No. of units	No. of empl.			
up to 19	7,682	44,352	1,309	22,771	25	250	7,140	42,437	634	11,980
20 - 49	1,761	54,400	1,646	20,243	31	250 - 500	1,459	34,814	1,440	15,054
50 - 99	955	64,116	1,157	18,841	35	500 - 1,250	1,572	71,695	2,475	17,306
100 - 499	622	c	c	c	c	1,250 - 2,500	721	68,083	c	10,446
500 - 999	94	62,891	2,005	18,548	43	2,500 - 6,250	478	93,506	c	19,225
over 1,000	49	120,344	1,953	18,803	38	over 6,250	271	215,144	2,024	23,416
TOTAL:	11,663	525,697	1,835	19,730	35	TOTAL:	11,641	525,687	1,778	19,730

IV. ANNUAL PRODUCTION

(1966) Products by group of products	Vt. of first prod.	Quantity produced	Nominal capacity output	Unit ** price at factory HUF '66	Total production value 1000 HUF '66
		Unit	Output		(average)
Various kinds of fabrics	..	000 m	8,000 *	11,250	795
(a very wide range of production, i.e. gabardines, poplins, etc.)					6,368
				TOTAL VALUE OF PRODUCTION	6,368

* 9,000,000 m were produced but 8,000,000 m after shrinking.

**** Fries does not include sales tax.**

CAPACITY UTILIZATION:

The overall capacity utilisation is about 80%. The great variety of yarn-mixes and designs for fabrics, which is necessary to meet specific orders, is liable for the underutilization of the installed capacity of process equipment. But from the standpoint of the enterprise's viability in the given market conditions, this is considered as normal.

V. ANIMAL CONSUMPTION

	Consumption			Consumption value US \$ 00
	Unit	Purchase	% Imported	
(1966)				
1. Energy and water				
TOTAL:				159
- Electricity	000 Kwh	9,280	-	144
- Petroleum		..		15
- Water	000 m ³	..		1 *
2. Production materials				
TOTAL:				1,528
- Cotton	t	1,400	10	920
- Crotan	t	174	-	472
- Aerilan	t	26	100	64
- Various	t	75	100	72

* fixed quota, US \$ 130 per 2 months.

VI. VALVE ADDED

(1966)	Value 1966 US \$M
1. Wages & salaries	
- Employees in direct production (580 persons)	934
- Other employees (125 persons)*	432
2. Other payments for employees	380
3. Annual depreciation	255
4. Rentals paid	-
5. Interest & royalties	4
6. Sales tax (not incl. in TOTAL)	(200)
7. Other Ind. Inv. taxes	20
8. Various (finishing tolls, etc.)	1,528
9. Corporate income before tax	760
	4,361

* (includes substitutes)

4, 363

VII. MONTHLY EARNING RATES

	No. of per. empl.	Average empl. rate AUS \$
(End of 1966)		
1. Local non-operatives		
TOTAL:	29	383
- Managers	2	2,000
- Engineers	6	520
- Technicians	1	800
- Accountants	-	-
- Sales officers	-	-
- Other professional staff	-	-
- Clerks & typists	20	160
2. Local operatives		
TOTAL:	..	..
- Supervisors	1	1,600
- Foremen	..	..
- Machine operators	..	..
- Craftsmen	20	160
- Truck drivers	..	..
- Other full-time operatives	..	..
- Unskilled & part-time operatives	..	..

3. Foreign employees

<u>TOTAL:</u>		<u>Total</u>
	<u>Imported</u>	<u>Domestic</u>
or materials & supplies		<u>Value</u>
ALL:		<u>\$100 MS M</u>
		<u>297</u>
packaging		5
repair & maintenance	90	280
on-factor service inputs		12
gross services purchased		
ALL:		21
transport, storage & insurance		21
communications, advertisements, etc.		-
work performed by sub-contractors		
ALL:		-
		<u>2,005</u>

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

IX. SUPPLEMENTS

(1965)

Industry group: Spinning, weaving and finishing textiles (IMC: 211)

1. Size groups by number of persons employed	Number of estab.	Number of emp.	Avg. U. S. S.	Avg. gross prod. val. per pers.	Avg. gross prod. ratio ^a (%)
			\$/H.S. \$0	\$/H.S. \$0	Avg. exp. gross prod. ratio ^b (%)
up to 25	25	802	7,456	764	6,226 90
26 - 75	75	334	15,397	1,051	7,933 73
76 - 100	79	6,986	1,047	6,499	73
101 - 250	185	28,633	1,122	6,417	90
over 250	118	39,811	1,332	5,472	90
	TOTAL	1,518	110,283	1,192	6,129 86

2. The groups by mode of animal production

up to	40	1,115	5,643	364	1,308	95
40 -	120	231	7,663	608	2,287	130
120 -	240	156	8,933	743	3,006	118
240 -	400	116	8,772	994	4,172	93
400 -	1,600	272	36,613	1,160	6,306	81
over	4,000	120	51,532	1,484	7,886	81
TOTAL		2,010	119,156	1,183	6,090	86

Future plan:

No specific plan.

Government policies:

No particular complaint heard.

Major Products:

Sacks and cordages of hard-fibres (palma, kenaf, hemp, etc.). Capable of producing annually about 4.5 million sacks (for coffee, wheat, rice packaging) with 3 shifts.

A one-establishment enterprise, founded in 1954.

Privately owned, with no foreign capital participation.

Reporting Unit:**I. FIXED CAPITAL ASSETS**

(End of 1966)

	Year of introduction	Org. purchase value 1966 US \$	Replacement value 1966 US \$
1. Primary process equipment			
TOTAL:		1,053	..
- Process equipment		923	
- Hand tools & apparatuses		2	..
- (0)		128	..
2. Primary industrial building		229	..
TOTAL:		229	..
(total floor space: 16,965 m ²)		229	..
3. Auxiliary facilities		216	..
TOTAL:		166	
- Water, steam, electricity, cooling & stirring		13	..
- Transportation facilities		19	
- Administrative facilities		18	
- Laboratory facilities		..	
- Others (furniture and utensils)		..	
TOTAL PHYSICAL FIXED CAPITAL ASSETS including land:		1,498	..
4. Other fixed capital assets		41	..
TOTAL:		41	..
- Land (total acreage: 33,620 m ²)		41	..
(*) Machinery and equipment not directly in connection with production process (boilers, decomposed machinery, etc.)		..	
DETAIL OF PROCESS EQUIPMENT (in %):	Supplier country	Year of introduction	Org. purchase value 1966 US \$

Detail by type:

Shaker	4
Cards	77
Drawers	174
Spinning machines	355
"Trétilles"	8
Loom shuttles	13
Winding machines	9
Weaving machines	Mostly 31
Looms	1952 167
Irons	to ..
Reversing socks machines	1953 7
Inspecting and marking machines	6
Hydraulic presses	6
Sewing machines	11
Sizing machines	5
Wrapping machine	4
Others	10

HISTORY OF INVESTMENT:

Construction of the factory started in 1952. The first trial as well as commercial production took place in 1954. First profits accrued in 1954.

CAPACITY POWER:

Process equipment:

- Electric motor:

Generating equipment:

Installed capacity: - kVA

EXTERNAL CONDITIONS:

Transport: Long distance, excellent.

Utilities: Electricity, fair.

Community: -

II. INVENTORIES AND WORKING CAPITAL

In 1966 US \$

(End of 1966)

1. Inventories	Avg. value	2. Liquid assets	Avg. value
TOTAL:	562	TOTAL:	965
- Production materials	158	- Cash (bank/bank)	15
- Other input materials	211	- Market. sec. & bonds	-
- Work-in-process	54	- Short-term investment	176
- Finished products	179	- Prepaid expenses	-
		- Accounts receivable	774

3. Desired working capitalNumber
of months

Value

TOTAL:

- Production materials
- Other input materials
- Finished products
- Wages & salaries
- Other special items

III. MANNING TABLE

Number of persons

(1966 average)

ALL SHOPS & UNITS:	Total		1st shift		2nd shift		3rd shift	
	A	B	A + B	A + B	A + B	A + B	A + B	A + B
1. Primary operative shops	539	158	68	106	68	22	5	5
- Preparation department	78	28	6	28	6	8	2	2
- Spinning department	66	22	5	22	5	10	2	2
- Weaving department	191	90	3	90	3	4	1	1
- Finishing department	204	48	54	48	54	-	-	-

2. Auxiliary operative units

	Total	51	40	9
- Repair and maintenance	43	20	18	5
- Mechanical shop	44	24	20	-
- Utilities control	1	1	-	-
- Product & material storage	6	4	1	1
- Off-site transport	1	1	-	-
- Guards, cleaners, etc.	5	1	1	3

3. Auxiliary non-operative units

	Total	24	-	-
- Production management	-	-	-	-
- Research & development	-	-	-	-
- Sales unit	2	2	-	-
- General administration	19	19	-	-
- Others	3	3	-	-

WORKING TIME PER OPERATIVE WORKER:

- Normal hours/day: 1st 2nd 3rd shift
- Normal hour/day: 8 7.5 8
- Actual hours/year: 2336 2131.6 2044 hours
- Normal days/year: 252 252 252

CAPACITY OF OPERATIVE SHOPS:

The capacity of finishing department
is utilised up to 80%.

IV. ANNUAL PRODUCTION

(1966)	Vt. of Prod.	Quantity produced	Normal capacity output	Unit price on factory RS 50	Total production value RS 50 US \$
Product or group of products		Unit	Output		
- Coffea sacks	..	000 pcs	800	..	0.48/pc
- Sugar sacks	..	" "	1,000	..	0.56/pc
- Wheat sacks	..	" "	400	..	0.48/pc
- Rice sacks	..	" "	600	..	0.37/pc
- Cordages for packing	..	" "	450	..	0.56/pc
- Various sacks	..	" "	800	..	0.48/pc
					TOTAL VALUE OF PRODUCTION
					1,958

CAPACITY UTILIZATION:

The overall rate of utilization is 80%. (Estimates geared to the performance of the finishing department). Under-utilisation, mainly due to the shortage of demand. Additional 8 man-hours would be needed on 1st shift, 7.5 on 2nd shift and 7 on 3rd shift per working day, for the full utilisation of the present capacity.

EXPORTS: None.

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed	Unit	Purchase	% Imported	Total consumption value RS 50 US \$
1. Energy and water					
TOTAL:					44.3
- Water	000 m3		54		5
- Electricity	000 Kwh		1,768		31
- Liquid fuels and lubricants:					
Diesel oil	000 l		182		5
Others	000 l		132		5
- Steam	000 m3		1,098		0.3
2. Production materials					758.3
TOTAL					
- Palma Zamandoca fibre	t		4,415.3		715
- Palma Pita	"		1.6		0.2
- Sansevieria	"		57.7		25
- Konaff	"		6.6		2
- Hemp	"		87.7		16
- Jute	"		0.3		0.1

VI. VALUE ADDED

(1966)	Value RS 50 US \$
1. Wages & salaries	
- Employees in direct production (650 persons)	466
- Other employees (13 persons)	108
2. Other payments for employees	171
3. Annual depreciation	77
4. Rentals paid	-
5. Interest & royalties	18
6. Sales tax	-
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	28
	868

VII. MONTHLY EARNING RATES

No. of emp. avg. rate RS 50	Average earning rate RS 50
(End of 1966)	
1. Local non-operatives	
TOTAL:	22 - 258
- Managers	1 1,000
- Engineers	- -
- Technicians	1 400
- Accountants	1 400
- Sales officers	2 800
- Other professional staff	3 160
- Clerks & typists	14 128
2. Local operatives	438 92
TOTAL:	
- Supervisors	1 320
- Foremen	12 80
- Machine operators	398 91
- Craftsmen	18 96
- Truck drivers	1 72
- Other specific category	2 240
- Unskilled & part-time operatives	6 64
3. Foreign employees	
TOTAL:	- -

Total consumption value RS 50 US \$
189
95
89
5
94
92
2
51
1,037

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)	Industry group: Spinning, weaving and finishing textiles (ISIC: 231)				
1. Size groups by number of persons employed:	Number of estab.	Number of emp.	Ave. W. &. S. RS 50	Ave. gross prod. val. RS 50	Ave. exp. gross prod. val. (%)
up to 25	802	7,495	764	6,226	90
26 - 75	334	15,397	1,051	7,933	73
76 - 100	79	6,986	1,047	6,499	73
101 - 250	185	28,633	1,122	6,417	90
over 250	118	59,811	1,332	5,472	89
	TOTAL	1,518	118,283	1,192	6,129
					86
2. Size groups by value of annual production RS 50 US \$:					
up to 40	1,115	5,643	364	1,308	95
40 - 120	231	7,663	608	2,287	130
120 - 240	156	8,933	743	3,006	118
240 - 400	116	8,772	994	4,172	93
400 - 1,600	272	36,613	1,160	6,306	81
over 1,600	120	51,532	1,484	7,886	83
	TOTAL	2,010	119,156	1,183	6,090
					86

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

Government policies:

No comments.

Commission work:

Total commissions paid annually amount to US \$

Percentage of commission paid is 2%, except for rice

sacks (1.5%).

Major Products: Men's cloth. Capable of producing annually 800,000 m of wool-polyester cloth and of 155,000 m pure wool cloth based on 2-shift operation. Full-capacity output amounts to US \$ 1.1 million.

Reporting Unit: A one-establishment enterprise; joint stock company; founded in 1928; partly modernized in 1960. 283 employees. Exports with favourable outlook for further improvement. No licensed production. No own research.

I. FIXED CAPITAL ASSETS

TABLE Details of process equipment and capacity of primary operating shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS

Transport:	external long distance internal long distance local and city	fair excellent "
Utilities:	electricity water gas	fair poor "
		see page 4/X
Community:	residence health and recreation education	insignificant " "
Own Welfare Facilities:	Company subsidized lunch; loyalty bonus for workers distributed according to period of employment	

10. NOVENTRIM

(End of 1967)	Actual value (1000 US \$)	Number of months
Inventories		
TOTAL:	1,302	
- Production materials	439	3
- Other input materials	50	2
- Work-in-process	221	1
- Finished products	514	2

WORKING TIME FOR OPERATIVE WORKERS

	1st shift	2nd shift	3rd shift
(a) Shift hours/day:	8	8	-
- Actual hours/year	2,024	-	-
- Actual days/year:	250	216	-
(b) Mammals actually 0.4 hr/day	-	-	-

IV. MANNING TABLE (End of 1967)	Number of personnel	Skill categories					
		4. Supervisory staff and foremen (for all shifts)			5. Skilled operatives		
		6. Semi-skilled operatives (machine operators)			7. Unskilled operatives		
Total	A	B	C	D	E	F	G
ALL SHOPS & UNITS:	<u>283</u>	<u>64</u>		<u>161</u>		<u>58</u>	
1. Primary operative shops	<u>190</u>	<u>12</u>	-	<u>119</u>	<u>4</u>	<u>55</u>	-
- Preparation (plubbing) department (+)	79	2	-	39	-	38	-
- Weaving department	43	8	-	18	-	17	-
- Dyeing department	6	1	-	3	2	-	-
- Finishing department	24	1	-	23	-	-	-
- Sewing department	38	-	-	36	2	-	-
(*) Including a winding, twisting, warping, feeding-in and weft bobbin shop.							
2. Auxiliary operative units	<u>50</u>	<u>9</u>		<u>38</u>		<u>3</u>	-
- Repair & maintenance	15	3	-	11	-	1	-
- Mechanical shop	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-
- Utilities control	2	1	-	1	-	-	-
- Product & material storage	12	5	-	7	-	-	-
- Off-site transport	6	-	-	5	-	1	-
- Guards, cleaners, etc.	9	-	-	8	-	1	-
- Pattern weaving and power plant	6	-	-	6	-	-	-
3. Auxiliary non-operative units	<u>43</u>	<u>43</u>		-		-	-
- Production management	3	3	-	-	-	-	-
- Research & development	2	2	-	-	-	-	-
- Sales unit	16	16	-	-	-	-	-
- Accounting	21	21	-	-	-	-	-
- General administration	1	1	-	-	-	-	-

V. ANNUAL PRODUCTION					VI. VALUE ADDED		
(1967)	% of prod.	Quantity produced Unit	Quantity	Avg. unit price on factory value US \$	Total output value US \$ US \$	Total value US \$ US \$	
Polyester/pure wool cloth	1959	m	770,000	3.14	2,419	483	
Pure wool cloth	1928	m	140,000	4.56	638		
Revenue from contract and commission work		..	..	5		
Waste		..	..	0.4		
TOTAL VALUE OF PRODUCTION: 3,062					TOTAL VALUE ADDED: 847		

DESCRIPTION OF MAJOR PRODUCTS:

Cloth is either manufactured out of polyester and wool or out of pure wool only. The patterns of the cloth are very fashionable. Orders have to be placed well in advance since weaving-mills producing fashionably designed cloths are particularly depending on customers' acceptance of new designs which are presented twice a year. Each main season lasts for about 4 months with terms of delivery increasing accordingly.

MARKET ASPECTS:											
<u>Consumers of products:</u>											
Manufacturers of men's wear, to a smaller extent textile whole-salers.											
<u>Sales organisation:</u>											
The enterprise mainly works to order.											
<u>Market and competition:</u>											
Extent of the market: 300 - 400 customers; keen international competition. Share in the domestic market: the company produces about 15% of the cloth needed by the national men's clothing industry. Competition in the market: prices for men's cloth are under constant pressure due to excess-production of the whole textile industry. Imports seem to be a little cheaper than equivalent domestic products which are almost equally priced.											
<u>EXPORT:</u> <u>Total annual export:</u> US \$ 1,030,000.											
<table border="1"> <thead> <tr> <th>Major products</th> <th>To Western countries</th> <th>To Eastern countries</th> <th>To developing countries</th> </tr> </thead> <tbody> <tr> <td>Cloth for men's wear</td> <td>64%</td> <td>32%</td> <td>4%</td> </tr> </tbody> </table>				Major products	To Western countries	To Eastern countries	To developing countries	Cloth for men's wear	64%	32%	4%
Major products	To Western countries	To Eastern countries	To developing countries								
Cloth for men's wear	64%	32%	4%								
<u>Export price policy:</u> Export prices are usually lower than domestic prices; this is possible because of tax exemptions and export bounties.											

VII. ANNUAL CONSUMPTION							
(1967)	Quantity consumed Unit	Quantity	% import	Average import duties (000 US \$)	Total consumption value US \$ US \$	Average import duties (000 US \$)	Total consumption value US \$ US \$
1. Energy and water							
TOTAL:					78		
- Electricity	000 kWh	2,757	-	-	58		148
- Fuel oil	t	864	-	-	19		8
- Water	000 m³	12	-	-	1		7
2. Production materials					1,754		56
TOTAL:							31
- Yarns: Polyester/ pure wool	t	313	12	8	1,414		25
- Yarns: Pure wool	t	65	12	2	340		
3. Other materials & supplies							179
TOTAL:							
- Packaging material (wrapping paper, wooden boxes)							
- Parts, supplies & services						1	133
- Other materials & supplies							7
4. Business services purchased							
TOTAL:							
- Transportation, storage & insurance							
- Communication, advertising & other business services							
5. Work performed by subcontractors							
TOTAL:							
TOTAL VALUE OF CONSUMPTION: 2,215							

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (8.1.)	Number	Original Purchase Value 1960 US \$	Revised Value 1968 US \$	Ave. Age Year	Suppli- er Country	Year of Instal- lation	Operation	Output Capacity
Preparation machines (klubbers) (*)	40	256	..	7				
Twisting machines	5	121	..	1				
Autocomes (fully automated)								
Quick traverse winder								
Twisting machine								
Warping machine								
Weft bobbin machine								
Mechanical weaving looms	79	245	..	7				
Dyeing machine	7	86	..	6				
Finishing machines	23	176	..	6				
Washing machines								
Boiling and crimping machine								
Tentering frames								
Warping machines								
Power presses								
Suction-type tenter								
Shrinking machine								
Stamping press								
Finishing machine								
Other machines	7	17	..	7				
Air conditioning plants	2	101	..	10				
Scales, elevators, packaging/lifting fac.	..	54	..	7	OH			

(*) Consisting of various spooling, twisting and warping machines

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Modernization:		C medium standard	D modernized	E highly automated	F extremely high standard	G automation	H fully automated	I moderately automated
		Modern.	Advanced							
Winding department (autocomes)	Rewinding from bobbins (coops) to cross coils	A	II							
Double winding department	Rewinding from bobbins to cross coils, conventional process	C	III							
Yarn dyeing department	Utilization of special yarn dyeing machines	C	-							
Twisting department	Dyed yarn is twisted to increase strength	B	III							
Warping department	A	III								
Weft bobbin department	C	II								
Weaving department	B	II								
Finishing department	C	II								

CAPACITY UTILIZATION:

Full-capacity output: US \$ 3,300,000

20 additional operatives would be required on the first shift.

Current utilization: Based on 2-shift operation.

Major products for process	up to	Approximate %		
	to 20	20 to 40	40 to 60	60 to 80	80 to 100

Clothing for men's wear

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
1963	2,470	330	560
1964	2,840	279	200
1965	2,700	281	210
1966	2,960	279	310
1967	3,060	285	1,030
1968	..	..	..

2. Investments in the past:

From 1958 to 1967:	Approximate amount 1960 US \$
1958 - 1960	150
" 1959 - " 1960	380
" 1960 - " 1962	890

3. Future Plan:

1967:	151
From 1968 to 1971:	390

Total output
1960 US \$No. of
persons
employedTotal exports
1960 US \$Office equipment and machinery
(e.g. mechanical looms)Buildings and various new
machinesCompletion of buildings;
installation of a dyeing and
a finishing shopPurchase of dressing, tentering
and twisting machines; general
rationalization of machinery and
equipment.
No additional operatives will be
required.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1964) Spinning, weaving and finishing textiles (ISIC-Code: 231)

Industry	No. of estab.	No. of empl.	Ave. W. &. S. per pers. 1960 US \$	Ave. gross prod. val/ per pers. 1960 US \$	Ave. value added/gross prod. ratio (%)	2. Size groups by annual scale of production 1960 US \$:	No. of estab.	No. of empl.	Ave. W. &. S. per pers. 1960 US \$	Ave. gross prod. val/ per pers. 1960 US \$	Ave. value added/gross prod. ratio (%)
1. Size groups by number of persons employed:						up to	20	147	172	3,477	58
up to	19	223	965	1,103	46	20 -	40	23	127	1,174	47
20 -	99	73	3,512	1,403	31	40 -	200	72	1,323	1,153	55
100 -	499	66	10,304	1,132	41	200 -	400	29	1,254	1,293	49
500 -	999	11	1,742	1,151	39	400 -	2,000	73	1,357	1,358	50
over 1,000	5	3,015	1,596	6,012	44	over 2,000	31	23,631	1,563	6,012	40
TOTAL:	378	37,343	1,190	6,365	41	TOTAL:	370	37,364	1,190	6,365	41

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Engineering study	3. Technical and managerial personnel	5. Import and export management
2. Financial assistance	4. Industrial training	6. Administration of foreign labour
3. Industrial services	7. Technical consultancy	
4. Equipment supply.		
Industrial & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
8				There are almost no possibilities to import raw materials from developing countries since only well-known synthetic fibres are used.
9				The enterprise is interested to employ foreign labourers in order to reduce the constant lack of unskilled operatives.

XIII. SUPPLEMENTS & NOTES

Mastery of production and investment:

Production was started in 1928. The first basic modernisation took place in 1960 with particular emphasis on improving existing buildings and acquiring new ones. Since only a few new machines were installed, the modernisation efforts did not change the profitability of the company too much. Therefore, the break-even point could not be surpassed again until 1966 with an output approaching US \$ 2,900,000. Domestic and world market prices for men's cloth had been rather low which also accounted for the lessee and the low profits the company had to face. Company received considerable financial backing by a large bank, the company's major shareholder. After the anticipated additional investments (mainly machinery) have been realized the company expects to become more profitable.

Bottlenecks:

The twisting, winding and sewing departments were lacking skilled personnel. The existing capacity of the dyeing and finishing departments proved to be too small. Power supply cannot be increased unless a new transformer is installed. Severe shortage of water during summertime. Company-owned wells are insufficient, additional costs caused by water bought from public utility company. Lack of water affects the dyeing and washing departments.

Contract and commission work:

The company finished cloth for other enterprises on commission basis. In 1967, the total commission work was of minor importance with receipts amounting to US \$ 5,000 only. Some 10 subcontractors, however, performed commission work for the company: spinning of yarns and sewing of woven cloth. Commission paid: US \$ 180,000.

Inventory policy:

On the average, the value of finished products in stock amounts to 10% of total production value. Although the company mainly produces to order, finished products frequently are not called off by the customers right away.

Depreciation policy:

Straight-line method only.



74.09.12

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- | | | |
|----------------------------|---------------------------------------|------------------------------------|
| 1. Engineering study | 3. Technical and managerial personnel | 5. Import and export promotion |
| 2. Financial assistance | 4. Industrial training | 6. Administration of foreign trade |
| 3. Industrial services | 7. Technical consultancy | |
| 4. Equipment supply, | | |
| Installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project

The establishment is interested to employ foreign operatives.

Other possibilities for co-operation with developing countries, however, are not possible since the establishment is far too small.

XII. SUPPLEMENTS & NOTES

Depreciation policy:

The company applies both the straight-line and accelerated methods of depreciation.

Inventories policy:

On the average the value of the stock of finished products amounts to 10% of the total value of production. Company has to purchase fruits and vegetables in large quantities during harvest time. Sales of final products are usually delayed by several months.

Major Products: Canned meat, fruits and vegetables; jams, fruit juices, frozen vegetables, and farinaceous products.
Capable of producing a total revenue output of US \$ 10.5 million based on 1-shift operation.

Reporting Unit: A one-establishment enterprise, privately owned, no participation of foreign capital. Although the company was founded almost 100 years ago, the machinery and equipment utilised are on the average not older than 6 years. Moderate product research activity (8 employees; US \$ 20,000.- research expenses annually). 409 employees.

I. FIXED CAPITAL ASSETS				II. MONTHLY GROSS WAGES AND SALARIES					
				Number of persons					
(End of 1967)				(1967 monthly average)					
	Original purchase value (1968 US \$)	Replace- ment value (1968 US \$)	Av. life (Yrs.)	up to 100 US \$	100 US \$	140 US \$	160 US \$	240 US \$	over 360 US \$
1. Primary process equipment (including installation cost)									
TOTAL	1,912	2,013	7						
- Process equipment	1,912	2,013	7						
- Hand tools & apparatuses	-	-	-						
2. Buildings	2,734	2,877	40						
TOTAL									
- Primary industrial buildings (total floor space: 9,078 m ²)	1,593	1,676	40						
- Auxiliary buildings	380	400	40						
- Warehouses	446	470	40						
- Office administration buildings	175	184	40						
- Housing	140	147							
3. Auxiliary facilities (excl. buildings)	483	509	6						
TOTAL									
- Internal power equipment	265	279	5						
- Laboratory facilities	14	15	5						
- Means of transportation	97	103	3						
- Office equipment	107	112	10						
TOTAL PHYSICAL FIXED ASSETS (excluding land):	5,129	5,399							
4. Other fixed capital assets	439	462	-						
TOTAL									
- Land (total acreage: 25,106 m ²)									
- Land improvements (t.scr. 19,409 ")	439	462	-						
- Others	-	-	-						

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

III. INVENTORIES				IV. MANNING TABLE					
				Number of persons					
(End of 1967)				(1967 average)					
	Actual value (1968 US \$)	Number of months		Total	A	B	C	D	E
Inventories	1,694								
TOTAL:									
- Production materials	240	1							
- Other input materials	2	0.6							
- Work-in-process	-	-							
- Finished products	1,316	3.1							
- Packing material (cans, cartons)	136	1.2							
WORKING TIME PER OPERATIVE WORKER:									
1st shift	9.2 (*)	9.2 (*)	- hours						
2nd shift	2,041	2,041	- hours						
3rd shift	222	222	- days						
(*) high figure due to overtime during season.									

Skill categories:					
A. Supervisory staff and foremen (for all shifts)					
B. Skilled operatives					
C. Semi-skilled operatives / machine operators					
D. Unskilled operatives					
Total	A	B	C	D	E
1st Shift					
2nd Shift					
3rd Shift					
ALL SHOPS & UNITS:	409	80	327	2	-
1. Primary operative shops	251	11	238	2	-
- Fruit and vegetable processing	82	4	78	-	-
- Meat processing	74	5	69	-	-
- Farinaceous products processing	32	1	29	2	-
- Sterilisation, packing	63	1	62	-	-
2. Auxiliary operative units	97	8	89	-	-
- Repair & maintenance	40	3	37	-	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	-	-	-	-	-
- Utilities control	-	-	-	-	-
- Product & material storage	1	1	-	-	-
- Off-site transport	34	4	30	-	-
- Guards, cleaners, sto.	19	-	19	-	-
- Others	3	-	3	-	-
3. Auxiliary non-operative units	61	61	-	-	-
- Production management	2	2	-	-	-
- Research & development	3	3	-	-	-
- Sales unit	35	35	-	-	-
- Accounting	12	12	-	-	-
- General administration	9	9	-	-	-

V. ANNUAL PRODUCTION

(1967)	Yr. of prod.	Quantity produced Unit	Avg. unit price on factory gate (\$US \$)	Total output value (\$US \$)
Products for group of products		Quantity		(\$US \$)
Canned meat	..	t	5,015	0.79/kg
Canned vegetables	..	"	4,329	0.33/kg
Canned fruits	..	"	257	0.35/kg
Jams	..	"	941	0.50/kg
Juices	..	"	56	0.45/kg
Frozen vegetables	1960	"	7	0.43/kg
Farinaceous products	1932	"	1,901	0.44/kg
TOTAL VALUE OF PRODUCTION:				6,836

VI. VALUE ADDED

(1967)	Total value (\$US \$)
1. Annual wages & salaries	
- Operative workers	571
- Non-operative workers	279
2. Other payments for employees	200
3. Annual depreciation	
- Machinery & equipment	136
- Buildings & other facilities	104
- Non-physical capital assets	4
4. Rentals paid (incl. discounts)	210
5. Interest & royalties	4
6. Sales tax	348
7. Other indirect business taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	261
TOTAL VALUE ADDED:	
	2,117

DESCRIPTION OF MAJOR PRODUCTS:

Canned meat: in cans weighing between 100 - 500 g; 1,000 - 3,000 g
 Canned vegetables: " " " 70 - 10,000 g
 Canned fruits: " " " 250 - 5,000 g
 Jams: " glasses " 250 - 5,000 g
 Juices: " bottles " 500 - 2,500 g
 Farinaceous products: packages of 250, 500, and 5,000 g.

All products: Serial production, non perishable, seasonally independent, ready for use, high quality, prompt delivery.

MARKET ASPECTS:

Consumers of products: Households, restaurants.
Sale organization: Company representatives sell to wholesalers.
Extent of the market: Products are distributed all over the country.
Share in the domestic market: 50 - 60% of canned meat, 20 - 30% of canned fruits and vegetables, 10% of farinaceous products.
Competition: Farinaceous products: too many producers and decreasing consumption.
 Canned fruits and vegetables: very slow increase in consumption results in excess capacities. Insufficient market transparency due to dirigistic measures.

EXPORT:
Total annual export: Can be considered as insignificant.

Major products	To Western countries	To Eastern countries	To Developing countries
----------------	----------------------	----------------------	-------------------------

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity (\$)	Amount import duty	Total consumption value (\$US \$)	Total consumption value (\$US \$)
1. Energy and water					
TOTAL:				95	
- Electricity	000 kWh	1,165		26	
- Fuel oil	t	1,603		37	
- Diesel oil	t	32		3	
- Petrol, fuel gas	t	41		1	
- Gas	000 m³	38			
- Water	000 m³	335		20	
2. Production materials				2,881	
TOTAL:					
- Meat	t	2,392	-	1,428	
- Sterile meat (*)	"	184	100	129	
- Fruits and vegetables	"	2,988	-	361	
- Sterile fruits and vegetables	"	657	90	133	
- Semolina	"	1,951	-	391	
- Ingredients (spices, sugar, frozen eggs, etc.)	"	1,199	10-50	439	
TOTAL VALUE OF CONSUMPTION:					
				4,719	
3. Other materials & supplies					
TOTAL:				1,317	
- Packaging material (cans, glasses, cups, bottles, cartons, labels)				1,281	
- Parts, supplies & services				18	
- Other materials & supplies				18	
4. Business services purchased					
TOTAL:				411	
- Transportation, storage & insurance				225	
- Communications, advertising & other business services				186	
5. Work performed by subcontractors					
TOTAL:				15	

(*) including US \$ 21,000 for purchase and storage costs.

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1):	Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Av. Age (yrs)	Remarks	Further details:	
						Inv.	IV. Purchased second-hand a) Own b) Second c) Self constructed
Canned fruit and vegetable processing equipment	1	555.8	585.0	appr. 7	-	Canning and packing equipment for meat processing supplied by Germany in 1966. 8 hrs daily running time. Output 20 t/day, current utilisation 80%.	
Frozen fruit and vegetable processing equipment	1	75.1	79.1	7	-		
Canned meat processing equipment	1	441.9	465.2	2	-	Sterilisation equipment supplied by the Netherlands in 1964/65. 8 hrs daily running time (24 hrs during season). Output 250 t/day. Utilisation rate depending on preceding production process.	
Marinaceous products processing equipment	1	252.0	265.3	8	-		
Sterilisation and packing equipment	1	476.7	501.8	5	-		
Repair shop equipment, filling station	..	40.1	42.2	10	-		
Lift truck, forwarding equipment, others	..	70.7	74.4	10	-		

CAPACITY POWER:

Process equipment:

- electric motors 600 kW

Generating equipment:

- installed capacity - 11VA

Major primary operative shops	Kind of process involved	Mechanization:	C. medium standard		Automation:
			A. most advanced	B. appreciably above today's standard	
Fruit and vegetable canning	preparation, sterilisation, canning	B	III		
Deep freezing	" " "	B	III		
Meat canning	" " "	A	III		
Marinaceous products processing	preparing, drying, packing	B	III		
Sterilisation and packaging	-	A	III		

CAPACITY UTILIZATION:

Full capacity output: US \$ 10,450,000. The 1967-output amounted to US \$ 6,840 due to decreasing sales of marinaceous products and insufficient rise of demand for canned fruits and vegetables.

Current utilization: (*)

Major products for processing	up to 30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Approximate %
	No.	No.	No.	No.	No.	No.	No.	No.	

Fruit and vegetable canning

x

Deep freezing

x

Meat canning

x

Marinaceous products processing

x

(*) Based on 1-shift operation, however, during season company runs 2 - 3 shifts.

IX. HISTORY & PLAN

1. Performance in the past:	Total output 1960 US \$	No. of persons employed		Total exports 1960 US \$
		Year: 1963	1964	
	5,180	430	-	
	5,500	440	-	
	5,770	440	-	
	5,880	450	-	
	6,540	440	-	
	6,970	420	-	

2. Investments in the past:	Approximate amount 1960 US \$	Type of investment	
		From 1955 to 1958 :	From 1959 to 1962 :
	356	Machinery and miscellaneous equipment	
	1,716	Buildings and machinery	
	1,007	Machinery and miscellaneous equipment	
		In 1967 investments amounted to US \$ 68,000.	

3. Future Plan:	From 1970 to 1975 :	Expansion of process equipment; rationalisation of product-mix; machinery and fabrication process; specialisation of product-mix; introduction of new products and new fabrication methods. No additional operatives will be employed.
	774	

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

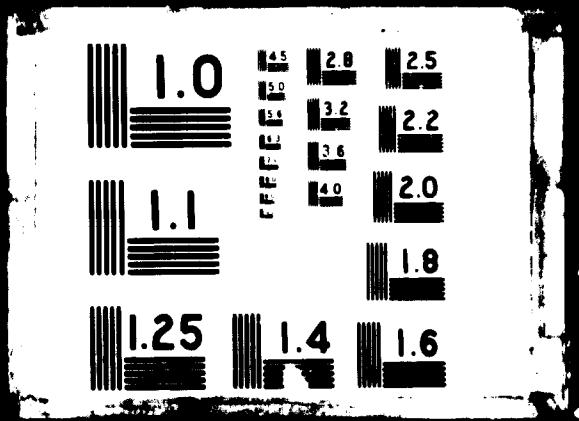
(196)

Industry	(ISIC-Code:)			
	1. Size groups by number of persons employed: up to	No. of estab.	No. of empl.	Av. W. & S. per pers. 1960 US \$
	2. Size groups by annual value of production: up to	No. of estab.	No. of empl.	Av. gross prod. val./ per pers. 1960 US \$

TOTAL:

TOTAL:

4 OF 11
02919



Major Products: Rayon lining, rayon and synthetic fabrics, ribbons.
In 1966/67 the company produced some 3 million m of lining, 2.5 million m of other rayon fabrics and 3.6 million m of ribbons based on 2- to 3-shift operation.

Reporting Unit: A two-establishment enterprise, originally founded in 1826, privately owned. One of the largest manufacturers of lining in the country. Equipped with rather modern machinery. Business year: 1 August 1966 - 31 July 1967. 430 employees.

I. FIXED CAPITAL ASSETS

(31/7/1967)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave- age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	1,392	1,562	
- Process equipment	1,346	1,511	12
- Hand tools & apparatuses	46	51	-
2. Buildings	503	673	
TOTAL	271	379	
- Primary industrial buildings (total floor space: 13,200 m ²)	87	93	
- Auxiliary buildings	74	75	
- Warehouses	35	71	
- Office administration buildings	36	55	
- Housing			15
3. Auxiliary facilities (excl. buildings)	330	369	
TOTAL	193	217	
- Internal power equipment			15
- Laboratory facilities	13	14	10
- Means of transportation	50	56	6
- Office equipment	14	82	10
TOTAL PHYSICAL FIXED ASSETS (excluding land)	2,225	2,604	
4. Other fixed capital assets	36	209	
TOTAL	5	39	
- Land (total acreage: 80,000 m ²)	17	155	
- Land improvements (i.e. acr. 20,100 ")	14	15	10

*) Partly built before 1900

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport	external long distance	fair
	internal long distance	"
	local and city	"
Utilities	electricity	fair
	water	"
	gas	partly excellent, partly poor
Community	residence	fair
	health and recreation	"
	education	"
Own Welfare Facilities		canteen

III. INVENTORIES

(31/7/1967)

	Actual value (1000 US \$)	Number of months
Inventories	827	
TOTAL	131	3
- Production materials	4	3
- Other input materials	312	3
- Work-in-process	380	4

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day (*)	8	8	8	hours
Actual hours/year	1,865	1,890	1,870	days
Actual days/year	222	222	222	

(*) Normal; actually 8.4 (1st shift), 8.5 (2nd shift);

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1966/67 monthly average)

up to 100 US\$	100 US\$	140 US\$	160 US\$	240 US\$	over 260 US\$
----------------------	-------------	-------------	-------------	-------------	---------------------

1. Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists
- Others (supervisors and foremen)

2. Local operatives

- Supervisors (*)
- Foremen
- Skilled operatives (**)
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

included in 1. and 2.

(*) The company considers supervisors and foremen as local non-operatives.

(**) "Skilled operatives" are included in "Machine operators" and "other full-time operatives".

IV. MANNING TABLE

(number of persons)

(1966/67 average)

Total	A	B	C	D	E-D	F-D
-------	---	---	---	---	-----	-----

ALL SHOPS & UNITS:

431	108	-----	201	-----	87	35
-----	-----	-------	-----	-------	----	----

1. Primary operative shops

268	37	6	102	3	86	34
-----	----	---	-----	---	----	----

- Plant A: Weaving

24	4	-	11	-	9	-
----	---	---	----	---	---	---

- Plant B:

Fabric weaving department	161	25	6	46	3	47	34
---------------------------	-----	----	---	----	---	----	----

Ribbon weaving department	39	5	-	17	-	17	-
---------------------------	----	---	---	----	---	----	---

Dyeing department	44	3	-	28	-	13	-
-------------------	----	---	---	----	---	----	---

2. Auxiliary operative units

97	11	-----	84	-----	1	1
----	----	-------	----	-------	---	---

Repair & maintenance	36	3	-----	33	-----	-	-
----------------------	----	---	-------	----	-------	---	---

Mechanical shop	-	-	-----	-	-----	-	-
-----------------	---	---	-------	---	-------	---	---

Tooling shop	-	-	-----	-	-----	-	-
--------------	---	---	-------	---	-------	---	---

Utilities control	4	3	-----	1	-----	-	-
-------------------	---	---	-------	---	-------	---	---

Product & material storage	10	4	-----	6	-----	-	-
----------------------------	----	---	-------	---	-------	---	---

Off-site transport	9	1	-----	8	-----	-	-
--------------------	---	---	-------	---	-------	---	---

Quarantine, cleaners, etc.	13	-	-----	11	-----	1	-
----------------------------	----	---	-------	----	-------	---	---

Others	25	-	-----	25	-----	-	-
--------	----	---	-------	----	-------	---	---

Repair & maintenance	36	3	-----	33	-----	-	-
----------------------	----	---	-------	----	-------	---	---

Mechanical shop	-	-	-----	-	-----	-	-
-----------------	---	---	-------	---	-------	---	---

Tooling shop	-	-	-----	-	-----	-	-
--------------	---	---	-------	---	-------	---	---

Utilities control	4	3	-----	1	-----	-	-
-------------------	---	---	-------	---	-------	---	---

Product & material storage	10	4	-----	6	-----	-	-
----------------------------	----	---	-------	---	-------	---	---

Off-site transport	9	1	-----	8	-----	-	-
--------------------	---	---	-------	---	-------	---	---

Quarantine, cleaners, etc.	13	-	-----	11	-----	1	-
----------------------------	----	---	-------	----	-------	---	---

Others	25	-	-----	25	-----	-	-
--------	----	---	-------	----	-------	---	---

Repair & maintenance	36	3	-----	33	-----	-	-
----------------------	----	---	-------	----	-------	---	---

Mechanical shop	-	-	-----	-	-----	-	-
-----------------	---	---	-------	---	-------	---	---

Tooling shop	-	-	-----	-	-----	-	-
--------------	---	---	-------	---	-------	---	---

Utilities control	4	3	-----	1	-----	-	-
-------------------	---	---	-------	---	-------	---	---

Product & material storage	10	4	-----	6	-----	-	-
----------------------------	----	---	-------	---	-------	---	---

Off-site transport	9	1	-----	8	-----	-	-
--------------------	---	---	-------	---	-------	---	---

Quarantine, cleaners, etc.	13	-	-----	11	-----	1	-
----------------------------	----	---	-------	----	-------	---	---

Others	25	-	-----	25	-----	-	-
--------	----	---	-------	----	-------	---	---

Repair & maintenance	36	3	-----	33	-----	-	-
----------------------	----	---	-------	----	-------	---	---

Mechanical shop	-	-	-----	-	-----	-	-
-----------------	---	---	-------	---	-------	---	---

Tooling shop	-	-	-----	-	-----	-	-
--------------	---	---	-------	---	-------	---	---

Utilities control	4	3	-----	1	-----	-	-
-------------------	---	---	-------	---	-------	---	---

Product & material storage	10	4	-----	6	-----	-	-
----------------------------	----	---	-------	---	-------	---	---

Off-site transport	9	1	-----	8	-----	-	-
--------------------	---	---	-------	---	-------	---	---

Quarantine, cleaners, etc.	13	-	-----	11	-----	1	-
----------------------------	----	---	-------	----	-------	---	---

Others	25	-	-----	25	-----	-	-
--------	----	---	-------	----	-------	---	---

V. ANNUAL PRODUCTION		VI. VALUE ADDED				
(1967)	Vr. of prod.	Quantity produced Unit	Quantity	Ave. unit price at factory (US \$)	Total output value (000 US \$)	Total value (000 US \$)
Linen yarns	1967	t	788		1,406	526
Linen threads	1967	t	225		606	125
Raw material and yarn scraps	1967	t	175		27	115
Revenue from commission work					10	1
TOTAL VALUE OF PRODUCTION:				2,049		899

DESCRIPTION OF MAJOR PRODUCTS:

Linen yarns and linen threads - continuous production process. Standardization of products envisaged.
 High quality of yarns and threads due to tensile strength and carding.

MARKET ASPECTS:		EXPORT: Total annual export: US \$ 1.1 million		
		Major products	To Western countries	To Eastern countries
<u>Consumers of products:</u>		Linen yarns	56%	40%
Textile weaving mills, shoe manufacturing industry, carpet-weaving mills.		Linen threads	92%	8%

VII. ANNUAL CONSUMPTION		Total consumption value (000 US \$)					Total consumption value (000 US \$)
(1967)	Quantity consumed Unit	Quantity	% import	Average import duties	% of value		
1. Energy and water							
TOTAL:							172
- Electricity	000 kWh	394		15			38
- "	" "	4,052 (*)		-			
- Fuel oil (heavy)	t	1,101		25			130
- Gasoline	" l	12		2			4
(*) Internally supplied.							
2. Production materials							
TOTAL:							131
- Flax and harts	t	1,330	100	-	623		66
- Yarns	"	2.4	100	16	7		65
- Synthetic fibres	"	2	60	-	4		
- Cotton wool	"	17	100	5.2	23		
- Ramie fibres	"	7	100	16	22		
- Yarns for refinement	"	24	100	16	70		
- Chemicals	"	227.3	-	-	55		
TOTAL VALUE OF CONSUMPTION:							1,150

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (U.I.)	Number	Original Purchase Value (1960 US \$)	Replace- ment value (1960 US \$)	Av. age (year)	Remarks:	
					Original purchase value (1960 US \$)	Further details:
Hackling machines	6	-	179	15		Frequent adaptation of process equipment to meet requirements of production process.
Carding frames	9	-	236	15		Output depending on quality of input materials.
Combing machines	26	-	163	10		Modern carding systems (linesystem) produce about 120 to 140 kg/hr; hot water frames with
Carding machines and systems	10	-	624	15		200 spindles produce about 6 to 7 kg/hr and hard-yarn systems consisting of two interseeting and one carding machine manufacture
Hot water frames	25	-	363	10		about 100 to 120 kg/hr.
Gill spinning machines	8	-	382	15		
Winding frames	14	-	136	15		
Twisting frames	8	-	147	10		
Polishing machines	4	-	17	20		
Dyeing and bleaching equipment	5	-	22	8		
Driers	11	-	72	5		
Centrifuges	2	-	12	5		

CAPACITY POWER:

Process equipment:

- electric motors kW 1,700

Generating equipment:

- installed capacity kVA 800

CAPACITY OF PRIMARY OPERATIVE SHOPS:	Major primary operative shops	Kind of process involved	Mechanization:		C moderate standard		Automation:	
			A most advanced	B considerably high standard	E almost automated	F fully automated	G non-automated	
Hackling			C	III				
Carding			A	III				
Combing			A	III				
Fine spinning			C	III				
Winding			C	III				
Twisting			A	III				
Dyeing and bleaching			C	II				
Further details: Output capacity:								
1.5-1.7 t/day - flax fibres								
4 t/day - cards								
5 t/day - fibres								
moistened: 3 t/day - yarns								
dry: 1.5 t/day - threads								
4.5 t/day - yarns								
1 t/day - threads								
2-2.5 t/day - yarns								

CAPACITY UTILIZATION:

Full-capacity output: US \$ 2.9 million. Could only be achieved with 25 additional operatives on the 1st and 2nd shift each

Current utilization: Based on 2-shift operation.

Major products (in process)	up to 30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
	No. of operatives							

Hackling	x
Carding	x
Combing	x
Fine spinning	x
Winding	x
Twisting	x
Dyeing and bleaching	x

Due to changes in market conditions and consumer taste reduction of consumption of linen products. Substitution of linen by synthetic fibres. Existing capacity cannot be fully utilized.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	1963	Total output (1960 US \$)	No. of persons employed	Total exports (1960 US \$)
	1964	2,250	621	1,050
	1965	2,240	554	1,200
	1966	1,830	414	840
	1967	2,180	390	1,040
	1968	2,040	368	1,090
		2,160	359	1,250

2. Investments in the past:

From 1956 to 1964:	132	Appropriations amount (1960 US \$)	Type of investment
	1967:	86	Expansion of process equipment

3. Future Plan:

From 1969 to 1972:	774	Introduction of new products, machinery and production processes.
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X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1964)

Industry Spinning, weaving and finishing textiles (ISIC Code: 231)

t. Size groups by number of persons employed:	No. of estab.	No. of emp.	Av. W. & L. per pers. (1960 US \$)	Av. gross prod. val./per pers. (1960 US \$)	Av. value added/gross prod. ratio (%)	2. Size groups by annual value of production (1960 US \$):			
						No. of estab.	No. of emp.	Av. W. & L. per pers. (1960 US \$)	Av. gross prod. val./per pers. (1960 US \$)
up to 19	221	855	1,108	7,001	47	147	172	847	4,776
20 - 99	~	1,542	1,403	9,811	41	20	40	1,174	5,796
100 - 499	60	15,304	1,481	7,444	41	40	200	1,114	5,154
500 - 999	11	7,748	1,451	5,449	40	200	400	1,293	6,600
over 1,000	~	9,915	1,596	6,014	45	400	2,000	1,398	7,059
						over	2,000	34	6,912
TOTAL:	378	37,364	1,480	6,865	42	TOTAL:	378	37,364	1,489

XI. DEFINED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services:
- | | | |
|---------------------------|---------------------------------------|----------------------------------|
| 1. Engineering study | 5. Technical and managerial personnel | 8. Import and export transaction |
| 2. Financial assistance | 6. Industrial training | 9. Administration of foreign |
| 3. Industrial services | 7. Technical consultancy | labor |
| 4. Equipment supply, | | |
| Manufacture & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of projects

The company could render various services in the field of flax spinning:

1. Feasibility and pre-feasibility studies could be prepared.
2. "Know-how" agreements could be signed.
3. Any arrangement could be made for the supply of new and second-hand machinery. Complete plants could be procured.
4. Delegation of experts possible on short-term basis.
5. The company reports interest to train operatives.
6. The company seems to be willing even to barter its products for imported high quality raw material.
7. Foreign labourers could be admitted.

XII. SUPPLEMENTS & NOTES

Bottlenecks and current problems:

Main bottlenecks are the lack of semi-skilled operatives (machine operators).

Inventory policies:

Because 95% of the raw materials is imported, stocks have to cover at least the 3-4 months supply period.

On the average 15% of total production is kept on stocks which almost equals a 2 months' output.

Contract and commission work:

The company bleached yarns on commission basis. Total commission received amounted to US \$ 10,000.

Major Products: Yarns and threads, Tyre cord.
Capable of producing annually 2,600 t of yarn and threads and 2,300 t of cord fabric for tyres based on 3-shift operation. Full-capacity output amounts to US \$ 8 million.

Reporting Unit: A one-establishment enterprise; founded in 1930; privately owned; 515 employees; no exports.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1 Primary process equipment (including installation cost)	1,060	1,720	..
TOTAL	1,060	1,720	..
- Process equipment *	1,033	1,713	..
Hand tools & apparatuses	27	56	3
2 Buildings	..	2,140	..
TOTAL	..	2,140	..
- Primary industrial buildings (total floor space: 31,000 m ²)	..	1,900	..
- Auxiliary buildings	..	..	..
- Warehouses	..	..	..
- Office administration buildings	..	..	..
- Housing	..	..	..
3 Auxiliary facilities (excl. buildings)	..	960	12
TOTAL	..	960	12
- Internal power equipment	..	..	..
- Laboratory facilities	..	11	..
- Means of transportation	..	3	..
- Office equipment	..	1	..
TOTAL PHYSICAL FIXED ASSETS (excluding land)	..	4,020	..
4 Other fixed capital assets	..	312	..
TOTAL	..	312	..
- Land (total acreage: 240,150 m ²)	31	312	..
- Land improvements (t.s.e.r. 1-4, 100%)	10	60	..
- Others	2	2	..

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport	external long distance	Train
	internal long distance	Train
	local and city	Car
Utilities	water	Excellent
	gas	Excellent
Community	health and recreation	Fair
	education	Fair
Other Welfare Facilities		Good pension fund.

III. INVENTORIES

(End of 1968)

	Actual value (1000 US \$)	Number of months
Inventories	1,071	
TOTAL:	1,071	1
- Production materials	415	1
- Other input materials	47	1
- Work-in-process	29	1
- Finished products	333	1

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day (*)	8.3	8.3	8.3	24.9
Actual hours/year	1,367	1,367	1,367	4,091
Actual days/year	232	232	232	727

(*) Actual; normal shift hours.

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

Up to 175 US\$	175 US\$	-250 US\$	250 US\$	-375 US\$	375 US\$	-500 US\$	500 US\$	over 1,000 US\$
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1. Local non operatives

- Managerial staff	-	-	-	-	-	-	-	2
- Technical staff	-	3	19	3	2	-	-	-
- Commercial staff	2	5	17	5	-	-	-	-

2. Local operatives

- Foremen	-	5	2	-	-	-	-	-
- Skilled operatives	8	104	14	-	-	-	-	-
- Semi-skilled operatives	49	157	11	-	-	-	-	-
- Unskilled operatives	27	22	-	-	-	-	-	-
- Part-time operatives	7	-	-	-	-	-	-	-

3. Foreign employees

- Managerial staff	-	-	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-	-	-
- Other skilled operatives	1	7	1	-	-	-	-	-
- Unskilled operatives	5	7	-	-	-	-	-	-
- Semi-skilled operatives	3	16	1	-	-	-	-	-

IV. MANNING TABLE

(Number of persons)

(As per 30/4/1968)

Skill categories: A. Supervisory staff and foremen (for all shifts)
B. Skilled operatives
C. Semi-skilled operatives (machine operators)
D. Unskilled operatives

Total	A	B	C	D	2nd Shift	3rd Shift
-------	---	---	---	---	-----------	-----------

ALL SHOPS & UNITS:

515	68	273	143	31
-----	----	-----	-----	----

1. Primary operative shops

390	25	35	141	29	124	27
- Spinning department	196	12	22	93	12	53
- Twisting department	87	6	7	26	6	35
- Cord-twisting and weaving department	83	6	6	23	9	26
- Bleaching department	14	2	-	4	2	4

2. Auxiliary operative units

97	5	69	19	4
- Repair & maintenance	32	1	26	-
- Mechanical shop	-	-	-	-
- Tooling shop	-	-	-	-
- Utilities control	8	1	3	2
- Product & material storage	17	2	12	3
- Off-site transport	11	-	13	4
- Guards, cleaners, etc.	11	-	8	3
- Others	1	1	7	2

3. Auxiliary non-operative units

38	38	-	-	-
- Production management	5	5	-	-
- Research & development	2	2	-	-
- Sales unit	9	9	-	-
- Accounting	13	13	-	-
- General administration	9	9	-	-

V. ANNUAL PRODUCTION

(1968)	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price at factory US \$	Total output value 1968 US \$
Products for group of products					
Yarns and threads	1934	t	2,627	1,544.7	4,053
Cord fabric for tyres	1936	t	2,104	1,471.2	3,191
Others	"				144
Revenue from commission work					17

TOTAL VALUE OF PRODUCTION: 7,610

VI. VALUE ADDED

(1968)	Total value 1968 US \$
1. Annual wages & salaries	
- Operative workers	
1. 447 personnel	910
- Non-operative workers	
1. 68 personnel	313
2. Other payments for employees	
3. Annual depreciation	
- Machinery & equipment	316
- Buildings & other facilities	46
- Non-physical capital assets	3
4. Rentals paid	10
5. Interest & royalties	73
6. Sales tax	153
7. Other indirect business taxes (*)	11
8. (-) Subsidies	-
9. Corporate income before tax	148

(*) exc tax.

TOTAL VALUE ADDED: 2,213

DESCRIPTION OF MAJOR PRODUCTS:

Yarns and threads of various thicknesses made from cotton and staple fibres;
cord for tyres.

MARKET ASPECTS:

Consumers of products:

Leaving mills and yarn-dealers; manufacturers of tyres.

Sales organisation:

Independent representatives on commission basis.

Share in the domestic market:

Company is of regional importance only. In the southern part of the country it holds approx. 2 - 3% of the market.

EXPORT:
Total annual export: No exports.

Major products	To Western countries	To Eastern countries	To Developing countries

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed Unit	Quantity Unit	% import	Avg. import price	Total consumption value 1968 US \$
1. Energy and water					
TOTAL:					252
- Electricity	GBB kWh	10,316	-	-	224
- Coal	t	..	-	-	1
- Wood	t	..	-	-	2
- Heavy fuel oil	t	1,240	-	-	25
2. Production materials					4,775
TOTAL:					
- Cotton	t	1,493	-	-	967
- Staple fibres	t	919	-	-	480
- Synthetics	t	376	-	-	603
- Wool	t	12	-	-	29
- Rayon	t	2,233	-	-	2,500
- Purchased yarns	t	227	-	-	196

3. Other materials & supplies	Total consumption value 1968 US \$
TOTAL:	240
- Packaging material (cartons, wrapping paper)	17
- Parts, supplies & services	95
- Other materials & supplies	128
4. Business services purchased	
TOTAL:	127
- Transportation, storage & insurance	53
- Communication, advertising & other business services	74
5. Work performed by subcontractors	
TOTAL:	3

TOTAL VALUE OF CONSUMPTION: 5,397

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (U.1.3.)

	Number	Original Purchase Value (1960 US \$)	Replace- ment value (1960 US \$)	Ave. Age year	Remarks	Supplier country	Daily running time
Ring spinning frames	97	988	1,404	12			
Cards	125	331	635	6		Germany, F.R.	2 shifts
Automatic winding frames	6	176	294	6			
Winding frames	9	96	122	7			
Flyer frames	16	126	229	4		Germany, F.R.	1-2 shifts
Stretching machines	18	91	113	6		Germany, F.R.	1-2 shifts
Combing machines	6	70	94	4		Germany, F.R.	2 shifts
Rale breakers with cleaners	17	115	149	4		Germany, F.R.	2 shifts
Doubling frames	15	174	221	6		Germany, F.R.	2 shifts
Cord-aggregates	16	707	812	3			
Cord-ring doubling frames	3	14	26	1		Germany, F.R.	2 shifts
Cord-looms	12	113	137	6			
Double twisting machines	9	166	126	9			
Kettles	7						
Drying equipment	4	{ 175	{ 224	{ ..			
Others	1						
Other universal machines	22	171	124	1			

CAPACITY POWER:

Process equipment:
electric motors kW 4,129Generating equipment:
installed capacity kVA 1,414

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		C. moderate standard		Automation:	I. fully automated	III. non-automated
		A. most advanced	B. considerably high standard	D. appreciably short of today's standard	E. almost unattained			
Spinning department								
Twisting department								
Cord-twisting and weaving dept.								
Bleaching department								

CAPACITY UTILIZATION:
Full capacity output.

Current utilization: Planned for next 12 months

Major products for processing

Appropriate %

10 20 30 40 50 70 80 90 100

Spinning department

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963
1964
1965
1966
1967
1968Total output
(1960 US \$)
5,260
6,250
6,380
7,340
6,820
7,610No. of
persons
employed526
558
557
554
493
515Total exports
(1960 US \$)

-

2. Investments in the past:

From 1960 to 1961: 1,551
" 1965 " 1968: 3,650Appropriate
amount
(1960 US \$)

1,551

3,650

Type of investment

Expansion of industrial
buildings,
Machinery and other process
equipment

3. Future Plan:

From 1970 to 1972: 1,500-1,750

Expansion and rationalization
of process and auxiliary
equipment, specialization of
product-six and machinery.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; these figures are included in total.

(1962)

Industry Spinning, weaving and finishing textiles (ISIC Code: 231)

1. Size groups by number of persons employed	No. of establish- ments	No. of empl.	Ave. W. & S. per per- son US \$	Ave. sales per per- son US \$	Ave. value added/sales ratio %*	
up to 19	3,786	11,168	1,030	7,032	48	
20 - 99	1,721	13,612	1,379	7,523	48	
100 - 199	503	16,099	1,532	8,140	46	
200 - 499	463	115,271	1,964	7,926	45	
500 - 999	150	1,6343	1,033	7,938	45	
over 1,000	83	1,26,614	1,637	7,613	46	
TOTAL:	6,068	591,707	1,652	7,903	46	

2. Size groups by annual sales of sales	No. of establis- hments	No. of empl.	Ave. W. & S. per per- son US \$	Ave. sales per per- son US \$	Ave. value added/sales ratio %*	
up to 1,250	5,200	135,432	6	7,062	6	
1,250 - 2,500	249	99,931	6	7,608	6	
2,500 - 6,250	279	131,380	1,619	8,143	45	
6,250 - 12,500	104	102,694	1,692	8,830	44	
12,500 - 25,000	33	69,005	1,616	7,947	43	
over 25,000	8	36,275	1,639	8,672	45	
TOTAL:	6,053	594,707	1,537	7,903	45	

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services:
- | | | |
|--|--------------------------------------|--|
| 1 Engineering study | 5 Technical and managerial personnel | X Import and export management |
| 2 Financial assistance | 6 Industrial training | <input checked="" type="checkbox"/> Administration of foreign labour |
| 3 Industrial services | 7 Technical consultancy | |
| 4 Equipment supply, installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

The establishment is willing to train workers and managerial staff as well as to employ foreign operatives.

XII. SUPPLEMENTS & NOTES

Contract and commission work:

The company finished tirecord on commission basis.
Total commission received amounted to US \$ 17,000.
On the other hand, rewinding of yarns and threads amounting to US \$ 3,500 was done by sub-contractors.

Major bottlenecks in the past and current problems:

The lacking labour force was compensated by over-time work.

Depreciation policy:

The company applied both the straight line and the declining balance methods.

Inventories policy:

On the average the value of finished products in stock approximates 4.4% of the total value of production.

Major Products: Secondary processing of nylon yarn. Synthetic fibres suitable for weaving into hosiery - 3-shift operation. The capacity revenue output is about US \$ 360,000.

Reporting Unit: A one-establishment, small-sized enterprise; privately owned by foreign entrepreneurs; incorporated in 1961; commercial production initiated 1963. Heavily licensed, patented production process. The business year 1968 stands for the period March 1, 1968 to February 28, 1969.

I. FIXED CAPITAL ASSETS

	(End of 1968)	Original pur. value (000 US \$)	Replace- ment value (000 US \$)	Ave- age (Yrs.)
1 Primary process equipment (including installation cost)				
TOTAL	114	++		4
- Process equipment	112	++		++
- Hand tools & apparatuses	2	++		++
2 Buildings (rented facilities) (***)				2
TOTAL				
- Primary industrial buildings (total floor space: 325 m ²)				-
- Auxiliary buildings				-
- Warehouses				-
- Office administration buildings	included above			-
- Housing				-
- Household improvements				++
3 Auxiliary facilities (excl buildings)				
TOTAL	3	++		++
Internal power equipment				
Laboratory facilities	included above			6
Means of transportation	1	++		++
Office equipment	2	++		++
TOTAL PHYSICAL FIXED ASSETS (excluding land)	126	++		
4 Other fixed capital assets (rented)				
TOTAL	-	-		
- Land (total acreage: ++ m ²)	-	-		-
- Land improvements				
- Others				

(++) Replacement value estimated to be approximately equal to original purchase price.

(***) Annual rental is approximately equal to US \$ 2,000.

*W/ Details of process equipment and quantity of primary raw materials are given on Page three Section III.

EXTERNAL CONDITIONS

Transport	external long distance	poor
	internal long distance	good
	local and city	good
Utilities	electricity	fair
	water	good
	gas	-
Community	residence	poor
	health and recreation	fair
	education	fair
Own Welfare Facilities	none	

III. INVENTORIES

	(End of 1968)	Actual value (000 US \$)	Number of months
Inventories	43	112	
TOTAL	43	112	
- Production materials	15	112	
- Other input materials	3	3	
- Work-in-process	7	-	
- Finished products	25	1	

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	7.1.2	7.1.2	7.1.2	hours
Actual hours/year	1,900	1,860	1,860	hours
Actual days/year	240	240	240	days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

	35 -115 US\$	130 -140 US\$	about 250 US\$	over 900 US\$
				*

1. Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists

2. Local operatives

- Supervisors
- Foremen
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

Skill categories: A. Supervisory staff and foremen (for all shifts)

B. Skilled operatives

C. Semi-skilled operatives (machine operators)

D. Unskilled operatives

IV. MANNING TABLE

(number of persons)

(1968 average)

	Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
	26	2	-	11	-	7	-	6

ALL SHOPS & UNITS:

1 Primary operative shops	18	1	-	6	-	6	5	
- Throwing shop	6	-	-	2	-	2	2	
- Laying shop	3	-	-	1	-	1	1	
- Binding shop	3	-	-	1	-	1	1	
- Inspecting shop	3	-	-	1	-	1	1	
- Packing shop	2	-	-	1	-	1	-	
- Supervisor	1	1	-	-	-	-	-	
2. Auxiliary operative units	4	-	-	-	2	1	1	
- Repair & maintenance	2	-	-	-	-	1	1	
- Mechanical shop	-	-	-	-	-	-	-	
- Tooling shop	-	-	-	-	-	-	-	
- Utilities control	-	-	-	-	-	-	-	
- Product & material storage	2	-	-	2	-	-	-	
- Off-site transport	-	-	-	-	-	-	-	
- Guards, cleaners, etc.	-	-	-	-	-	-	-	
3. Auxiliary non-operative units	4	1	-	-	3	-	-	
- Production management	1	1	-	-	-	-	-	
- Research & development	-	-	-	-	-	-	-	
- Sales unit	-	-	-	-	-	-	-	
- Accounting	1	-	-	1	-	-	-	
- General administration	2	-	-	2	-	-	-	

(*) The factory supervisor oversees all aspects of production and maintenance.

V. ANNUAL PRODUCTION

(1968)		Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (1000 US \$)
Processed synthetic yarn	1963	kg	78,500	4.15	326	
Revenue from commission work (1 order)					3	
TOTAL VALUE OF PRODUCTION:					329	

VI. VALUE ADDED

(1968)		Total value (1000 US \$)
1. Annual wages & salaries		32.5
- Operative workers (22 personnel)	18.7	
- Non-operative workers (4 personnel)	13.8	
2. Other payments for employees	6	
3. Annual depreciation:	16	
- Machinery & equipment	13.4	
- Buildings & other facilities	2.5	
- Non-physical capital assets	-	
4. Rentals paid	32	
5. Interest & royalties	-	
6. Sales tax	-	
7. Other indirect business taxes	0.5	
8. (-) Subsidies	-	
9. Corporate income before tax	32	

TOTAL VALUE ADDED: 119

DESCRIPTION OF MAJOR PRODUCTS:

Processed nylon fibre: synthetic yarns of variable thickness which are processed to acquire certain characteristics, such as absorbiveness, elasticity, body, which are considered desirable for such end products as women's sweaters, and men's and boy's socks.

MARKET ASPECTS:

Consumers of products:

Textile manufacturers located for the most part at a considerable distance from the plant, though none are outside of the country of production. Exports are limited through international licensing agreements.

Sales organisation:

Through a small group of agents who cover the textile producing region of the country. Also through managing director.

Market and competition:

Within country (see above) there is nearly no competition in the production of this licensed product. However, there are a large number of reasonable substitutes.

EXPORT:
Total annual export: None - as result of international licensing agreement.

Major products	To Western countries	To Eastern countries	To Developing countries
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VII. ANNUAL CONSUMPTION

(1968)		Quantity consumed Unit	Quantity	% import	Average import duties	Total consumption value (1000 US \$)
1. Energy and water						4
TOTAL:						
- Electricity (power)	000 kWh	118,500	-	-	-	3
- " (lights)	000 kWh	13,391	-	-	-	1
2. Production materials						165
TOTAL						
- Nylon yarn	kg	74,500	-	-	-	165

3. Other materials & supplies		Total consumption value (1000 US \$)
TOTAL:		12
- Packaging material (cones, bags, boxes, etc.)		9
- Parts, supplies & services	3	
- Other materials & supplies	0.3	
4. Business services purchased		
TOTAL:		22
- Transportation, storage & insurance	5	
- Communication, advertising & other business services	17	
5. Work performed by subcontractors		7
TOTAL VALUE OF CONSUMPTION:		210

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1.)	Number	Original Purchase Value 1960 US \$	Replace- ment value (*) 1960 US \$	Ave. Age (yrs)	Remarks	Further details
Nylon processing machine (patented process)	2	45	-	8	-	Equipment is very well maintained and operated about 120 hours per week on the average.
Laying machines (standard model)	2	15	-	6	-	Whole equipment supplied by USA.
Winding machine (standard model)	1	10	-	8	-	

(*) The management estimates that replacement value of this very well maintained equipment is approximately equal to purchase price.

CAPACITY POWER:

Process equipment:

electric motors kW 35

Generating equipment:

installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:	C modern standard	Automation:			
		A more advanced	B considerably high standard	C almost automated	D apparently short of today's standard	E fully automated	F semi-automated
Throwing	Machines are loaded and unloaded by hand.	A	II				
Laying	Other operations are automatic.	A	II				
Winding	Continuous process.	A	II				
Inpecting	Labour intensive operations.	C	III				
Packing	Other discontinuous process.	C	III				

CAPACITY UTILIZATION:

Full-capacity output: Approx. 10,500,000, based on a 3-shift operation.

Current utilization:

Up to 20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Major products for processing								

Processed nylon fibre

IX. HISTORY & PLAN

1. Performance in the past:

Year:	1963
1964	not available
1965	
1966	67
1967	68
1968	69

Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
255	15	-
230	15	-
320	25	-

2. Investments in the past:

Approximate amount 1960 US \$	Type of investment
From 1962 to 1963 : 5,406	Capital equipment, renthold improvements.
1966 : 32	Additional capital equipment and facility improvements.

3. Future Plan:

A study is currently underway to determine development plan. It is anticipated that a new unit will have to be constructed and that a quantum leap in investment, employment and productivity will be necessary.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1960) Silk, cotton, and synthetic fibres (ISIC Code: 231)

Industry	No. of plants	Avg. No. of empl.	Avg. W. & S. per pers. 1960 US \$	Avg. gross prod. val/ per pers. 1960 US \$	Avg. value added/prod. prod. ratio (%)
1. Size groups by number of persons employed up to 99	7	70	1,730	6,350	32
100 - 499	41	132	1,450	6,150	35
500 - 999	16	180	1,880	6,150	36
over 1,000	26	1,215	1,880	5,150	41

TOTAL: 5134 415 1,360 517 N 37

No. of plants	No. of empl.	Avg. W. & S. per pers. 1960 US \$	Avg. gross prod. val/ per pers. 1960 US \$	Avg. value added/prod. prod. ratio (%)

Not available.

TOTAL: _____

V. ANNUAL PRODUCTION

(1966/67)	Wt. of first prod.	Quantity produced Unit	Quantity	Avg. unit price on factory (\$00 US \$)	Total output value (\$000 US \$)
Rayon lining	1946	000 m	3,022	523.5	1,582
Other rayon fabrics	1927	" "	2,541	270.7	688
Synthetic fabrics	1952	" "	263	429.6	113
Natural silk fabrics	1880	" "	5	3,800.0	19
Elastic gum fabrics	1930	" "	3	1,000.0	3
Various ribbons	1826	" "	3,610	54.3	196
Revenue from commission work					23
TOTAL VALUE OF PRODUCTION:				2,624	

VI. VALUE ADDED

(1966/67)	Total value (\$000 US \$)
1. Annual wages & salaries	
- Operative workers (323 persons)	384
- Non-operative workers (108 persons)	275
2. Other payments for employees	
3. Annual depreciation	
- Machinery & equipment	59
- Buildings & other facilities	40
- Non-physical capital assets	5
4. Rents paid	
5. Interest & royalties	
6. Sales tax	
7. Other indirect business taxes	
8. (-) Subsidies	
9. Corporate income before tax	
	659
TOTAL VALUE ADDED:	1,080

DESCRIPTION OF MAJOR PRODUCTS:

Rayon lining
 Other rayon fabrics
 Synthetic fabrics
 Silk fabrics
 Elastic gum fabrics
 Ribbons

Except for "other rayon fabrics", "synthetic fabrics" and "ribbons", which are more or less of a fashionable type, all other items are standard type. Units run from 30 - 50 m each. All products are manufactured in series, can be delivered immediately and are easily transportable for exports.

MARKET ASPECTS:

<u>Re-sales:</u>	<u>Export price policy:</u>
Lining, ribbons.	No special price policy applied.
<u>Consumers of products:</u>	
Clothing industry, whole-salers. Approximately 2,000 customers.	
<u>Sales organisation:</u>	
The company employs own representatives at home and abroad. Products partly manufactured to order.	
<u>Durability of products:</u>	
2 years.	Staple goods are facing very keen competition.
<u>Share in the domestic market:</u>	
Lining approximately 30%; not determinable for other products.	

EXPORT:
Total annual export: US \$ 450,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Lining	90 %	10 %	-
Umbrella fabrics	100 %	-	-
Ribbons	100 %	-	-

VII. ANNUAL CONSUMPTION

(1966/67)	Quantity consumed Unit	Quantity consumed Unit	% import	Average import duty (\$000 US \$)	Total consumption value (\$000 US \$)
1. Energy and water					
TOTAL:					69
- Electricity	000 kWh	2,173 (*)			42
- Fuel oil	t				21
- Petrol	t	839			6
- Gas	000 m³	3			0.2
- Water	000 m³	..			0.2
2. Production materials					1,051
TOTAL:					
- Rayon silk yarn	t	575.3	20	24.2	929
- Synthetic yarn	"	13.5	100	-	46
- Cellulose yarn	"	1.9	-	-	3
- Cotton yarn	"	3.4	100	0.5	5
- Silk yarn	"	0.6	100	-	10
- Woolen worsted yarn	"	2.2	95	1	7
- Rubber thread	"	0.1	100	0.1	1
- Dyes and chemicals	"	15.9	95	6.5	90

(*) Self-supply of 150,000 kWh net counted in total consumption value.

3. Other materials & supplies	Total consumption value (\$000 US \$)
TOTAL:	84
- Packaging material	7
- Parts, supplies & services (**)	60
- Other materials & supplies	17
4. Business services purchased	
TOTAL:	290
- Transportation, storage & insurance	27
- Communication, advertising & other business services	269
5. Work performed by subcontractors	
TOTAL:	50

TOTAL VALUE OF CONSUMPTION: 1,544

(**) Including US \$ 4,000 import duties.

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of service:
- 1. Engineering study
 - 2. Financial assistance
 - 3. Industrial services
 - 4. Equipment supply, installation & maintenance
 - 5. Technical and managerial personnel
 - 6. Industrial training
 - 7. Technical consultancy
 - 8. Import and export promotion
 - 9. Administration of foreign labour

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project

Potential areas for industrial co-operation:

The expatriate manager of this firm has indicated a willingness:

- 1, 3, 7 to assist in conducting pre-investment or "trouble-shooting" assignments of a short-term nature in the developing countries;
- 5, 6 to train personnel at his establishment; or
- 1 - 4 to follow-up on investment and production possibilities in the textile or fibre-processing field in countries with a "sufficiently large" market.

XII. SUPPLEMENTS & NOTES

Depreciation policies:

The straight line method is applied to the original purchase price. The management makes use of the most accelerated policies available under the law:

- 12.5% for most equipment
- 20% for power equipment.

Inventory policies:

The inventory of production materials corresponds roughly with the term of payment for these materials, i.e. 45 days. The inventory of finished products is subject to wide fluctuation.

Desired working capital:	Value	Equivalent number of months
Production materials	US \$ 16,000	1.5
Other materials and supplies	" 3,500	5
Finished products	" 32,000	1.5
Wages	" 4,000	2.5
Salaries	" 2,500	3
Administrative and sales costs, etc.	" 16,000	2-3
	US \$ 74,000	2-3

EAST AFRICA : 202-(1)

MAJOR PRODUCTS: Knitted socks. Capable of manufacturing 24,000 dozen a year on 1-shift operation.

REPORTING UNIT: A one-establishment enterprise, founded in 1965, privately owned.

I. FIXED CAPITAL ASSETS		(in 000 US \$)	Year of compl.	Orig. purchase value	Replace- ment value
(End of 1967)					
1. Primary process equipment					
total:		44		47	
- Process equipment		16		39	
- Hand tools and apparatuses		7		7	
- Cost of installation		1		1	
2. Primary industrial building			1966	34	34
total:					
(total floor space: 260 m ²)					
3. Auxiliary facilities				6	6
total:					
- Water, steam, electricity, cooling and storing				-	
- Transportation facilities					
- Administrative facilities	t)	1966		3	3
- Laboratory facilities		1966		1	3
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excl. land):		84		87	
4. Other fixed capital assets				0.3	0.3
total:					
- Land (total acreage: .. m ²)				0.3	0.3
DETAIL OF I.1. (supplier):			Year of instl.	Orig. purchase value	Replace- ment value

Knitting machines (12) (Japan)	1966/67	26	28
Linking machines (8) (Japan)	"	4	5
Steam setting (1) (Japan)	"	3	3
Winder (1) (Japan)	"	3	3

History of investment

Construction of the factory as well as trial production started in 1966, commercial production in 1967. The first profits accrued in September 1967 when the output reached 2,000 socks per month. Investment in 1968 to duplicate the output: US\$280,000 (6 knitting and 4 linking machines).

ENERGY POWER:	Generating equipment:
Electric meters: .. kW	- Installed capacity: .. kVA
TRANSPORTATION:	
Road: Long distance and local transport: both fair.	
Rail: Public utilities: fair.	
Sea: All facilities: fair.	

II. INVENTORIES AND WORKING CAPITAL		(in 000 US \$)
(End of 1967)	Actual value	
1. Inventories		
total:	30	
- Production materials	16	
- Other input materials	1	
- Work-in-process	2	
- Finished products	11	
2. Liquid assets		
total:		..
- Cash (hand/bank)	0.1	
- Market.sec. & bonds	..	
- Short-term investment	..	
- Prepaid expenses	..	
- Accounts receivable	..	

3. Desired working capital	No.of month	Value
total:	3	42
- Production materials		
- Other input materials		
- Work-in-process	3	42
- Finished products		
- Wages and salaries		

* B = Machine operators

* C = Other operatives

III. MANNING TABLE	Total	1st shift B+C	2nd shift B+C	3rd shift B+C
(1967 average)				
TOTAL EMPLOYED:	25	25	25	25
1. Primary operative shops	22	22	-	-
Knitting shop	8	8	-	-
Linking shop	12	12	-	-
Steam setting shop	2	2	-	-

2. Auxiliary operative units	1	1	-	-
- Repair and maintenance	-	-	-	-
- Tooling shop	-	-	-	-
- Mechanical shop	-	-	-	-
- Utilities control	-	-	-	-
- Product and material storage	-	-	-	-
- Off-site transport	-	-	-	-
- Guards, cleaners, etc.	1	1	-	-

3. Auxiliary non-operative units	2	2	-	-
- Production management	1	1	-	-
- Research and development	-	-	-	-
- Sales unit	-	-	-	-
- Accounting	-	-	-	-
- General administration	1	1	-	-

CAPACITY OF OPERATIVE SHOPS:	WORKING TIME PER OPERATIVE WORKER:
	- Normal hours/day: 7 hours
	- Normal days/year: 300 days
	- Actual hours/year: 2,100 hours

1. Knitting shop: capacity utilization rate 56%

2. Linking shop: " " " 10%

Both shops are fully automated.

IV. ANNUAL PRODUCTION (in 000 US \$)

(1967) Product (or group of products)

	Yr. of prod.	Quantity produced	Nominal capacity output	Unit price at factory (US \$)	Total production value
Socks	1967	Dosen	16,124	24,000	4.34
					70
				<u>Total value of production</u>	<u>70</u>

Competing imports

C.i.f. price (without tariff) of competing import varies from US\$1.2 to 14.00 per dozen.
 The tariff rate amounts to US\$1.68 per dozen or 40% ad valorem, whichever is higher.

Capacity utilization

Under-utilization of capacity is due to initial operation.

V. ANNUAL CONSUMPTION (in 000 US \$)

(1967)

1. Energy and water

Total:	..	..	..	1
- Electricity	..	..	..	..
- water	..	..	..	..

2. Production materials

Total:	26
--------	----	----	----	----

Nylon yarn

lbs	11,500	100	30%	26
-----	--------	-----	-----	----

Rubber yarn

kg	250	100	30%	26
----	-----	-----	-----	----

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY (in US \$)

(1965)

1. Size groups by establishments

Establishments:	No. of establishments	No. of employees	Avg. size	ISIC-code :	23
Smallest	10	19	3	Avr. gross prod. val.	..
100	20	49	23	Avr. gross prod. val.	..
1,000	50	99	53	Avr. gross prod. val.	..
over 5,000	100	499	76	Avr. gross prod. val.	..
	over 500	over 5,000	3	Avr. gross prod. val.	..

total

158	21,911	319	3,412	..
-----	--------	-----	-------	----

2. Size groups by scale of production of establishment

Up to	2	..
2 - 5	5	..
5 - 10	10	..
10 - 20	20	..
20 - 40	40	..
40 - 100	100	..
100 - 200	200	..
200 - 400	400	..
400 - 1,000	1,000	..
1,000 - 4,000	4,000	..
over 4,000	4,000	..

total

Capital is defined as physical capital assets.
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IX. SUPPLEMENTS

Governmental Policies

They are very liberal with regard to import of necessary raw materials.

Future plans

Investments totalling US\$26,000/year are envisaged for the period 1969-1974. Yarn production will be affected.

* This income figure was estimated by the interviewer.

VI. VALUE ADDED (in 000 US \$)

(1967)

	Value
1. Wages & salaries	
- Employees in direct production (24 persons)	17
- Other employees (2 persons)	5
2. Other payments for employees	incl. in 1.
3. Annual depreciation	7
4. Rentals paid	0.1
5. Interest and royalties	2
6. Sales tax	-
7. Other ind./bus. tax / trading licenses	0.1
8. Corporate income before tax	6
TOTAL VALUE ADDED:	37 *

VII. MONTHLY EARNING RATES (in US \$)

(End of 1967)

1. Local non-operatives

total:	No. of empl.	Average earning rates
total:	1	140
- Managers	1	140
- Engineers	-	-
- Technicians	-	-
- Accountants	-	-
- Sales officers	-	-
- Clerks and typists	-	-

2. Local operatives

total:	No. of empl.	Average earning rates
total:	24	30
- Supervisors	-	-
- Foremen	1	70
- Machine operators	23	28
- Craftsmen	-	-
- Truck drivers	-	-
- Semi-skilled operat.	-	-
- Unskilled operat.	-	-
- Part-time operat.	-	-

3. Foreign employees

total:	No. of empl.	Average earning rates
total:	1	280
- Engineers, trainee, and other technical control staff	1	280

3. Other materials and supplies

total:	Total consumption value
total:	3
- Packing (labels, cellophane bags, bento, cartons, pins, clips)	3
- Parts etc. for equip. maintenance	0.3

4. Business services purchased

total:	Total consumption value
total:	1
- Comm. advert. and other business activities	1

5. Work performed by sub-contractors

total:	Total consumption value
total:	-

TOTAL VALUE OF CONSUMPTION: 33

* This income figure was estimated by the interviewer.

MAJOR PRODUCTS: Garments and shirts (from cotton and rayon fabrics). Capacity output per annum is about 1.7 - 1.8 million pieces or about 9 million yds. of fabrics in terms of production material, if operated with 3 shifts.

REPORTING UNIT: A private company with a single establishment, founded in 1965.

I. FIXED CAPITAL ASSETS (in 000 US \$) Year of comp. Orig. purchase value Replace- ment value				II. INVENTORIES AND WORKING CAPITAL (in 000 US \$)									
(End of 1966)				(End of 1966)									
1. Primary process equipment				Actual value									
<u>Total:</u>				<u>total:</u>									
- Process equipment	1965	28	..	- Production materials	46	..	- Cash (hand/bank)	0.2					
- Hand tools and apparatuses		3	..	- Other input materials	10	..	- Market, sec. & bonds	..					
- Cost of installation		-	-	- Work-in-process	5	..	- Short-term investment	..					
<u>Total:</u>				<u>total:</u>									
(total floor space: 716 m ²)				<u>total:</u>									
2. Primary industrial building				No. of months Value									
<u>Total:</u>				<u>total:</u>									
(total floor space: 716 m ²)				90									
3. Auxiliary facilities				* B = Machine operators									
<u>Total:</u>				<u>total:</u>									
- Water, steam, electricity, cooling and storing and others		2	3	- Production materials	* C = Other operatives						
- Transportation facilities (trucks)		2	2	- Other input materials							
(total load: .. t)		-	-	- Work-in-process							
- Administrative facilities		1	1	- Finished products							
- Laboratory facilities		-	-	- Wages and salaries							
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excl. land):													
4. Other fixed capital assets													
<u>Total:</u>													
- Land (total acreage: 405 m ²)											
DETAIL OF 1.1. (supplier):													
Year of inst.	Orig. purchase value	Replace- ment value											
Cutting machines (2) (USA)	1965	2	..										
Ind. sewing machines (35) (PRO)	1965	17	..										
Lock stitch machine (6) (UK)	1965	6	..										
Collar turning machine (1) (UK)	1965	1	..										
Bend knife machine (1) (PRO)	1965	1	..										
Blind stitch machines (2) (PRO)	1965	1	..										
HISTORY OF INVESTMENT													
Construction of the factory and trial as well as commercial production first started in 1965.													
CAPACITY POWER:				CAPACITY OF OPERATIVE SHOPS:									
Electric equipment:				WORKING TIME PER OPERATIVE WORKER:									
- Electric motors: 1,400 kW				<table border="1"> <tr> <td>- Normal hours/day:</td> <td>8 hours</td> </tr> <tr> <td>- Normal days/year:</td> <td>296 days</td> </tr> <tr> <td>- Actual hours/year:</td> <td>2,384 hours</td> </tr> </table>				- Normal hours/day:	8 hours	- Normal days/year:	296 days	- Actual hours/year:	2,384 hours
- Normal hours/day:	8 hours												
- Normal days/year:	296 days												
- Actual hours/year:	2,384 hours												
GENERAL CONDITIONS:													
Location: Long distance, local area: fair													
Utilities: Electricity, water, gas: fair													
Community: Residential, health and recreational, educational: fair													

The cutting department (2 machines) produces 100 dos. per day and is fully automated and mechanized.

The stitching department produces 75 dos. per day and is also fully automated and mechanized.

IV. ANNUAL PRODUCTION (in 000 US \$)

(1966)
Products (or group of products)

	Yr. of first prod.	Quantity produced	Nominal ^(*) capacity output	Unit price ex factory (US \$)	Total production value
Baby suits	..	doe. 460	1,900	9.9	5
Ladies underwear	..	doe. 170	690	9.8	2
Boy's shirts	..	doe. 2,000	11,000	9.8	27
Youth's shirts	..	doe. 4,200	17,000	9.8	41
Men's shirts	..	doe. 9,300	39,000	16.8	156
Trousers	..	doe. 620	25,000	16.7	10
Total value of production					241

(*) assuming 3 shifts

Competitive imports

The protective tariff rate being imposed on imported shirts and underwear is 42 cents per piece or 40% ad valorem, whichever is higher.

Capacity utilization

Actual production as of 1966 was approx. 40% of the 3-shift nominal capacity output. However, relative to the normal 1-shift standard, the existing facilities appear to be fully utilized.

V. ANNUAL CONSUMPTION (in 000 US \$)

(1966)

1. Energy and water

	Quantity consumed	% tariff	Total consumption value
	Unit	tariff	value
Electricity	000 Kwh	25.30	1
- Electricity	000 Kwh	—	—
Water	000 gallons	129	0.1

2. Production materials

	Quantity	Avg. gross prod. val.	Avg. exp. prod. val.	Total consumption value
Cotton fabrics	yds.	234,000	100	0.14/yd
Rayon fabrics	yds.	126,000	100	0.19/yd

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY (in US \$)

(1965)

1. Size groups by establishments

Size groups by establishments (no. of employees)	No. of establs.	No. of empl.	Ave. size per estab.	Avg. gross prod. val.	Avg. exp. prod. val.	ISIC-code	ratio*
						24	
10 - 19	2	32	..	..	..
20 - 49	4	150	..	..	..
50 - 99	1	70	..	..	..
100 - 499	2	259	..	..	..
over 500	1	602	..	..	..
total	10	1,082	39	2,322	—		

2. Size groups by scale of production of establishments

Up to 2	2
2 - 8	8
8 - 40	40
40 - 120	120
120 - 240	240
240 - 400	400
400 - 1,600	1,600
1,600 - 4,000	4,000
over 4,000	—

total

* Capital is defined as physical capital assets.

VI. VALUE ADDED (in 000 US \$)

	Value
(1966)	
1. Wages & salaries	
- Employees in direct production	28
(79 persons)	
- Other employees	10
(9 persons)	
2. Other payments for employees	1
3. Annual depreciation	7
4. Rentals paid	2
5. Interest and royalties	7
6. Sales tax	—
7. Other ind.bus.tax	—
(-) subsidies	—
8. Corporate income before tax	8
TOTAL VALUE ADDED:	63

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Major Products: Underwear for men and women, clothing for children. Capable of producing annually about 45,000 dozens of men's underwear, 7,500 dozens of women's underwear and 5,500 dozens of children's clothing based on 1-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1929, privately owned, no participation of foreign capital.

I. FIXED CAPITAL ASSETS			
(End of 1967)			
	Year of installation	Orig. purchase value (000 US \$) Replacement value (000 US \$)	
1. Primary process equipment			
TOTAL		70	
- Process equipment		74	
- Hand tools & apparatuses	Various	1	
- Cost of installation		2	
2. Primary industrial building		84	
TOTAL		112	
(total floor space: 2,800 m ²)		84 112	
3. Auxiliary facilities		14	
TOTAL		13	
- Water, steam, electricity, cooling & storing	1966	8	
- Transportation facilities	1962, 66	6	
- Administrative facilities		2	
- Laboratory facilities		2	
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land)		106	
		206	
4. Other fixed capital assets		18	
TOTAL		40	
- Land (total acreage: 3,000 m ²)		18 40	
DETAIL OF PROCESS EQUIPMENT (in):			
	Supplier country	Year of installation	
		Orig. purchase value (000 US \$) Replacement value (000 US \$)	
- Boiler	U.S.A.	1966	3.6 4.0
- Bleachers	"	1963/67	4.0 8.8
- Centrifugal machine	"	1960	3.2 3.7
- Cloth press machine	"	1960	0.6 0.7
- Cutters	"	1966	0.2 0.2
- Compressor	"	1963	0.8 0.9
- Sewing machines	U.S. "	1950/66	3.0 3.9
- Finishing machine	"	1966	1.2 1.4
- Circular machines	U.S.A., Japan	1960/56, 1966	40.0 52.8

HISTORY OF INVESTMENT:

Construction of the factory as well as trial and commercial production started in 1929. The following investments for expansion purposes have been made ever since: (in 000 US \$)

1966	15	Leaving and sewing
1967	15	Bleaching
1967	8	Other equipment

CAPACITY POWER: Process equipment: Electric motors:	Generating equipment Installed capacity kW	— kVA

EXTERNAL CONDITIONS:
Transport: Long distance and local areas, fair.

Utilities: Electricity and water, excellent.

Community: Residential, health and recreational, educational, fair.

II. INVENTORIES AND WORKING CAPITAL			
(in 000 US \$)			
(End of 1967)			
1. Inventories	Actual value	2. Liquid assets	
TOTAL	13.6	TOTAL	93.1
- Production materials	2.4	- Cash (hand/bank)	1.1
- Other input materials	0.3	- Market. sec. & bonds	-
- Work-in-process	1.4	- Short-term investment	-
- Finished products	9.5	- Prepaid expenses	-
		- Accounts receivable	92.0
3. Desired working capital	Number of items	Value	
TOTAL		39.3	
- Production materials	3	7.1	
- Other input materials	0.5	1.7	
- Finished products	1	3.3	
- Wages & salaries	1	1.3	
- Other special items	3	25.9	

III. MANNING TABLE		
(Number of persons)		
(1967 average)		
Total	1st shift A	2nd shift B
ALL SHOPS & UNITS:	44	44
1. Primary operative shops	36	30 6
- Dyeing	2	2
- Weaving	2	2
- Sewing	28	25 3
- Packing	2	- 2
- Cutting	2	1 1
2. Auxiliary operative units	3	3
- Repair and maintenance *)	1	1
- Mechanical shop	-	-
- Utilities control	-	-
- Product & material storage	-	-
- Off-site transport	1	1
- Guards, cleaners, etc.	1	1
*) part-time		
3. Auxiliary non-operative units	5	5
- Production management	-	-
- Research & development	-	-
- Sales unit	1	1
- General administration	3	3
- Others (cutter - part-time)	1	1

WORKING TIME PER OPERATIVE WORKER:

Normal hour/day:	8	hours	Normal days/year:	260	days
Actual hour/year:	2,080	hours			

CAPACITY OF OPERATIVE SHOPS:

IV. ANNUAL PRODUCTION

(1967)

Products for group of products

	Vr. of finished prod.	Quantity produced	Normal output	Unit price at factory US \$	Total production value US \$
	Unit	Output			
- Men's underwear	1929	dosen	28,716	44,574	2.73
- Women's underwear	1964	"	5,100	7,650	1.40
- Children's clothing	1964	"	3,600	5,400	2.70
					TOTAL VALUE OF PRODUCTION
					95.2

EXPORTS:

Men's underwear	at US \$ 2.73 a dozen
Women's underwear	" " " 1.40 "
Children's clothing	" " " 2.70 "

COMPETING IMPORTS:

A protective tariff rate of US \$ 6.00 per gross kilo and of 10% ad valorem is imposed on imported men's and women's underwear and children's clothing.

CAPACITY UTILIZATION:

Capacity is underutilized due to lack of demand. In order to achieve full utilization 144 additional man-hour would be required per day.

V. ANNUAL CONSUMPTION

(1967)

1. Energy and water

	Quantity consumed			Value	
	Unit	Purchase	% imported	Tariff rate	Value US \$
TOTAL					4.2
- Electricity	000 Kwh	16			0.9
- Liquid fuels and lubricants					
Diesel	m³	40			2.6
- Water	000 m³	2,000			0.7

2. Production materials

		per gross kg	ad va- lorem	33.0	Total consumption value US \$
		kg	%		
- Thread	kg	10,572	10	0.15	10
- Dyes	"	14	100	0.04	10
- Chemical products	"	..	100	free	5
- Elastics	m	37,125	-	2.50	20
- Acids	kg	90	100	0.05	10

VI. VALUE ADDED

(1967)

	Value (US \$)
1. Wages & salaries	13.4
- Employees in direct production (3 persons)	13.4
- Other employees (3 persons)	6.4
2. Other payments for employees	1.8
3. Annual depreciation	3.6
4. Rentals paid	3.1
5. Interest & royalties	2.9
6. Sales tax	-
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	17.1
	48.8

VII. MONTHLY EARNING RATES

(End of 1967)

No. of per- son- empl.	Average earning per mon. US \$
TOTAL	162
- Managers	1
- Engineers	-
- Technicians	-
- Accountants (part-time)	1
- Sales officers	1
- Other professional staff	-
- Clerks & typists	2

2. Local operatives

No. of per- son- empl.	Avg. per mon. US \$
TOTAL	102
- Supervisors	-
- Foremen	1
- Machine operators	30
- Craftsmen	1
- Truck drivers	1
- Other full-time operatives	6
- Unskilled & part-time operatives	1

3. Foreign employees

No. of per- son- empl.	Avg. per mon. US \$
TOTAL	-

3. Other materials & supplies

No. of per- son- empl.	Total consumption value US \$
TOTAL	5.6
- Packaging (Polyethylene bags)	100
- Repair & maintenance	100
- Non-factor service inputs	-

4. Business services purchased

No. of per- son- empl.	Total consumption value US \$
TOTAL	3.6
- Transport, storage & insurance	2.4
- Communication, advertisements, etc.	1.2

5. Work performed by sub-contractors

No. of per- son- empl.	Total consumption value US \$
TOTAL	-

46.4

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1967)

Industry group: -

Number of employees	Av. per empl. US \$	Av. gross prod. val. US \$	Av. exp. prod. val. US \$	(INC:)
up to 10				

No data available.

TOTAL	—	—	—	—
2. Sub groups by value of annual production US \$				

TOTAL

* Capital is defined as physical capital assets.

IX. SUPPLEMENTSGovernmental policies:

The availability of input materials is affected
by the Industrial Development Law.

Major Products:

Shirts. Capable of producing annually 150,000 shirts on 1-shift operation.

Reporting Unit:

A one-establishment enterprise, private corporation, no participation of foreign capital.

I. FIXED CAPITAL ASSETS		II. INVENTORIES AND WORKING CAPITAL			
(End of 1968)		(End of 1968) <small>In 000 US \$</small>			
1. Primary process equipment	Year of installation	Orig. purchase value 1968 US \$	Replacement value 1968 US \$		
TOTAL		15.7	18.0		
- Process equipment		15.4	18		
- Hand tools & apparatuses		0.1	0.1		
- Cost of installation		0.1	0.1		
2. Primary industrial building		rented	-		
TOTAL					
(total floor space: .. m ²)					
3. Auxiliary facilities		-	-		
TOTAL					
- Water, steam, electricity, cooling & storing					
- Transportation facilities					
- Administrative facilities					
- Laboratory facilities					
TOTAL PHYSICAL FIXED CAPITAL ASSETS		15.7	18.0		
<small>Including land:</small>					
4. Other fixed capital assets		rented	-		
TOTAL					
- Land (total acreage: .. m ²)					
DETAIL OF PROCESS EQUIPMENT (in):		Supplier country	Year of installation		
			Orig. purchase value 1968 US \$		
			Replacement value 1968 US \$		
Bowing machines (*)	(12)	USA	1950/1964	A.1.	C.1.
Electrical sewing machines	(11)	"	1961/1964/7		
			1965/1966	C.1.	
Special electrical machine	(1)	"	1960	C.1.	
Auxiliary equipment	"		1950/1959/		
			1960/1962/	C.1.	
			1963		
(*) consisting of different models					
HISTORY OF INVESTMENT					
The first trial as well as commercial production started in 1940. Following amounts were invested for expansion of production: (in 000 US \$)					
Year	approx.	1.0	Production of shirts		
1956	"	0.4	"		
1964	"	0.2	"		
1966	"	1.6	"		
CAPACITY POWER:		Generating equipment:			
Process equipment: - Diesel motor	- kW	Installed capacity	- kVA		
EXTERNAL CONDITIONS:					
Transport:	-				
Utilities:	Electricity and water, excellent.				
Community:	Residential, fair.				
WORKING TIME PER OPERATIVE WORKER:					
Normal hours/day:	8	hours	- Normal days/year:	235	days
Actual hours/year:	1,880	hours			
CAPACITY OF OPERATIVE SHOPS:					
(**) The company operates with raw materials supplied by its customers which at the same time are its retailers.					

IV. ANNUAL PRODUCTION

(1968)

Products for group of products

	Vt. of first prod.	Quantity produced	Number of quality outputs	Unit price in factory US \$	Total production value 1000 US \$
	Unit	Output			
Shirts		1940	pes. 124,956	153,192	1.47 184
					TOTAL VALUE OF PRODUCTION 184

COMPETING IMPORTS:

Protective tariff rate for imported shirts is US \$ 6.00 per gross kg and 30% ad valorem.

CAPACITY UTILIZATION:

80% of the installed capacity is utilized.

VI. VALUE ADDED

(1968)	Value 1000 US \$
1. Wages & salaries	
- Employees in direct production (16 persons)	19.5
- Other employees (1 person part-time)	0.1
2. Other payments for employees	1.1
3. Annual depreciation	1.7
4. Rentals paid	1.4
5. Interest & royalties	0.1
6. Sales tax	-
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	-

VII. MONTHLY EARNING RATES

(End of 1968)	No. of per. emp.	Average earning rate US \$
1. Local non-operatives		
TOTAL	1	115
- Managers	1	100
- Engineers	-	-
- Technicians	-	-
- Accountants	1	10
- Sales officers	-	-
- Other professional staff	-	-
- Clerks & typists	-	-
2. Local operatives	37	50
TOTAL	37	50
- Supervisors	1	80
- Foremen	-	-
- Machine operators	28	52
- Craftsmen	1	60
- Truck drivers	-	-
- Other full-time operatives	6	34
- Unskilled & part-time operatives	1	10
3. Foreign employees	-	-
TOTAL	-	-

	Total consumption value 1000 US \$
3. Other materials & supplies	7.5
TOTAL	7.5
- Packaging (cardboard, pins, plastic bags)	0.8
- Repair & maintenance (100% imp.)	0.6
- Non-factor service inputs	1.1
4. Business services purchased	1
TOTAL	1
- Transport, storage & insurance	0.5
- Communication, advertisements, etc.	0.5
5. Work performed by sub-contractors	-
TOTAL	-

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(196)

Industry group: -

	(ISIC:)				
1. One group by number of persons employed	Number of estab.	Av. per emp.	Av. gross prod. val.	Av. exp. per prod.	Total* US \$
up to					

No data available.

TOTAL

2. One group by
size of annual production
1000 US \$:

up to

IX. SUPPLEMENTS

GOVERNMENTAL POLICIES:

The company would like to have technical assistance in order to improve the production process.

Import duties, Social Security costs as well as minimum wage legislation affect the company's profitability.

TOTAL

* Capital or defined as physical capital assets.

Major Products:

Shirts, trunk-hoses, etc. (including weaving and knitting work, capable of producing annually about 4.7 million pieces)
Shirts made with one shift in the sewing department. (Weaving and knitting with three shifts)

Reporting Unit:

A one-establishment enterprise, founded in 1971, a private corporation with no foreign capital participation.

I. FIXED CAPITAL ASSETS				II. INVENTORIES AND WORKING CAPITAL			
(End of 1961)				(End of 1961)			
	Year of installa- tion	Orig. pur- chase value (1000 US \$)	Replacement value (1000 US \$)		Actual value TOTAL	2 Liquid assets	Actual value TOTAL
1 Primary process equipment				- Production materials		- Cash (hand/bank)	
TOTAL				- Other input materials		- Market. sec. & bonds	
- Process equipment				- Work-in-process		- Short-term investment	
- Hand tools & apparatuses				- Finished products		- Prepaid expenses	10
- Cost of installation						Accounts receivable	40
2 Primary industrial building							
TOTAL							
(total floor space: 1,000 m ²)							
3 Auxiliary facilities							
TOTAL							
- Water, steam, electricity, cooling & storing							
- Transportation facilities							
- Administrative facilities							
- Laboratory facilities							
TOTAL PHYSICAL FIXED CAPITAL ASSETS							
(including land):							
4 Other fixed capital assets							
TOTAL							
- Land (total acreage: 1,000 m ²)							
*Include an administrative office							
DETAIL OF PROCESS EQUIPMENT (no.)	Supplier country	Year of installa- tion	Orig. pur- chase value (1000 US \$)	Replacement value (1000 US \$)			
- Looms	UK	1959	100	100			
- Chain strops	UK	1959	100	100			
- Circular machines	UK	1959	100	100			
- Plastic looms	UK and USA	1959	100	100			
- Sewing machines (210)	UK	1959	100	100			
- Various equipment	UK	1959	100	100			
HISTORY OF INVESTMENT:							
The first trial as well as commercial production started in 1959. The factory made its first profits when the first sewing units were started.							
The investment expenditures during the last three years:							
1959: 165.1 - 51,000							
1960: " 37,000							
1961: " 14,000							
Costly for expansion of the production plant and working capital.							
CAPACITY POWER:							
Process equipment: Electric motors	LW	Generating equipment Installed capacity	KVA				
EXTERNAL CONDITIONS							
Transport: Long distance, by rail, road, by air							
Utilities: Electricity, gas, water, by own plant							
Community: Community, residential, school, cultural, educational, fair.							
WORKING TIME PER OPERATIVE WORKER:							
Normal hours/day: 8 hours	hours	Normal days/year: 164 days					
Actual hours/year: 1412 hours							
CAPACITY OF OPERATIVE SHOPS:							
The over-all capacity of the establishment is geared to the productivity of the sewing department, which operates with one shift.							

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (U.S.):	Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Ave. Age (yrs)	(*) Remarks	Supplier country	Year of installa- tion	Daily running time	Output
Looms (fabric weaving)	266	700	784	10	A	Switzerl., USA	1950-59	24 hrs	250,000 shots/machine/day
Looms (ribbon weaving)	86	75	84	15	B	Switzerl.	1945-60	16 hrs	80,000 shots/machine/day
Automatic fabric and ribbon weaving spooling machines	30	85	95	10	D	Switzerl., FR.Germ.	1950-66	16 hrs	13.5 t/month
Reeling machines	10	16	17	15	D	Switzerl., FR. Germ.	1950-66	16 hrs	5 t/month
Dyeing and finishing machines	18	112	126	6	A	Switzerl., FR.Germ., Italy, Denmark, Austria	1950-59	16 hrs	450,000 e/month
Drier, single layer steamer	2	40	46	10	C	FR.Germ.	1950, 1959	16 hrs	450,000 n/month
Others	..	318	359	15	A				

(*) A : Rather new
 B : In good condition, partly obsolete
 C : In good condition, well maintained
 D : In good condition, more or less obsolete

CAPACITY POWER:
Process equipment:
 - electric motors kW 470
 - others " 380
Generating equipment:
 - installed capacity kVA 340

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		C: moderate standard	D: appreciably short of today's standard	E: almost outdated	Automation:	
		A: most advanced	B: considerably high standard				I: fully automated	II: semi-automated
Plant A: Weaving department		C	II					
Plant B: Fabric weaving dept.		B	"					
Ribbon weaving dept.		C	III					
Dyeing department		C	II					

CAPACITY UTILIZATION:

Full-capacity output: US \$ 2,900,000.

Current utilization:

Major products (or processes)	up to 30 40 50 60 70 80 90 100									Approximate %
	to 30	40	50	60	70	80	90	100		
Plant A: Weaving department	x									
Plant B: Fabric weaving department		x								
Ribbon weaving department		x								
Dyeing department		x								

The present rate of utilization is based on 2-shift operation except for the fabric weaving department which operates on 3 shifts. Under-utilization of ribbon weaving department is due to insufficient demand.

The company reports that another 10 operatives would be required on the 1st as well as on the 2nd shift in order to reach full utilization of total capacity.

IX. HISTORY & PLAN

1. Performances in the past:	Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
Year: 1962/63	2,060	410	190
1963/64	2,220	415	300
1964/65	2,450	420	440
1965/66	2,760	425	670
1966/67	2,630	430	500
1967/68	2,280	370	380

2. Investments in the past:	Approximate amount 1960 US \$	Type of investment
From 1957 to 1967:	250	Buildings
	1,040	Machinery and equipment
	150	Furniture and fixtures, transport equipment and others
1966/67:	58	

3. Future Plan:	80	will be annually invested for expansion and rationalisation of machinery, rationalisation of fabrication process and specialisation of product mix. Personnel will be reduced gradually, however, no exact statements are possible.
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X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1964)

Industry Spinning, weaving and finishing textiles (ISIC Code: 231)

1. Size groups by number of persons employed:	No. of estab.	No. of emp.	Ave. W. & S. per pers. (US \$)	Ave. gross prod. val./per pers. (US \$)	Ave. value added/gross prod. ratio (%)	2. Size groups by annual value of production (1960 US \$):	No. of estab.	No. of emp.	Ave. W. & S. per pers. (US \$)	Ave. gross prod. val./per pers. (US \$)	Ave. value added/gross prod. ratio (%)
up to 19	223	855	1,108	7,001	47	up to 20	147	172	847	4,776	58
20 - 99	73	1,542	1,403	9,811	41	20 - 40	23	127	1,174	4,796	55
100 - 499	66	5,304	1,481	7,344	41	40 - 200	72	1,323	1,114	5,154	49
500 - 999	11	7,748	1,451	5,449	40	200 - 400	29	1,254	1,293	6,600	51
over 1,000	5	9,915	1,596	6,014	45	400 - 2,000	73	10,857	1,398	7,059	42
						over 2,000	34	23,631	1,569	6,912	41
TOTAL:	378	37,364	1,489	6,865	42	TOTAL:	378	37,364	1,489	6,865	42

IV. ANNUAL PRODUCTION

(1966)

Products or group of products

- Charts
- Trunk-houses
- Knicker-bockers

*Not including sales tax

Exports: None

Capacity utilization:

The sewing department's capacity (one shift) is utilized at approximately 70%. The under-utilization is largely due to the demand factor. The nominal capacity output in the above is based on the capacity of the sewing department. The weaving and knitting departments are of secondary significance for the determination of total capacity.

V. ANNUAL CONSUMPTION

(1966)

1. Energy and water

TOTAL

		Quantity consumed			
		Unit	Per cent	Reported	Total value
					1000 US \$
- Electricity		000 Kwh		100	
- Diesel oil					
- Gas					
- Water					

2. Production materials

TOTAL

		Quantity consumed			
		Unit	Per cent	Reported	Total value
					1000 US \$
- "Articela"	Kg.	18,744		100	
- Cotton yarn	Kg.	44,771		160	
- Cotton fabrics	Kg.	1,196,429		100	

VI. VALUE ADDED

(1966)

	Value 1000 US \$
1. Wages & salaries	
- Employees in direct production	
(" persons)	
- Other employees	
(" persons)	
2. Other payments for employees	
3. Annual depreciation	
4. Rentals paid	
5. Interest & royalties	
6. Sales tax (net amount)	
7. Other ind. bus. taxes	
8. () Subsidies	
9. Corporate income before tax	

VII. MONTHLY EARNING RATES

(End of 1966)

No. of	Average earning
per cent	1000 US \$
TOTAL	
- Managers	
- Engineers	
- Technicians	
- Accountants	
- Sales officers	
- Other professional staff	
- Clerks & typists	

2. Local operatives

TOTAL	
- Supervisors	
- Foremen	
- Machine operators	
- Craftsmen	
- Truck drivers	
- Other full-time operatives	
- Unskilled & part-time operatives	

3. Foreign employees

TOTAL	

3. Other materials & supplies

TOTAL	
- Packaging, containers, and similar items	
- Repair & maintenance	
- Non-factor service inputs	

4. Business services purchased

TOTAL	
- Transport, storage & insurance	
- Communication, advertisements, etc.	

5. Work performed by sub-contractors

TOTAL	

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group: Manufacture of wearing apparel except footwear (ISIC 4)

1. No. groups by number of workers	Number of workers	Number of firms	Avg.		
			U.S.A.	Per cent	1000 US \$
Up to 15	772	2,221	357	21.1%	46
16 - 25	40	762	81	4.4%	64
over 25	67	1,432	1,117	64.5%	59

2. No. groups by value of annual production 1000 US \$	No. of firms	No. of workers	Avg.		
			U.S.A.	Per cent	1000 US \$
Up to 10	1,614	4,158	156	6.6	53
over	614	6,103	950	33.4	59

TOTAL: 1,218 12,241 156 3,244 57

IX. SUPPLEMENTS

DEMOGRAPHIC DATA

No comment

FUTURE PLANS

No specific plan of expansion

* Capital is defined as selected capital assets.

Major Products: Knitting wool and knitwear; Capable of producing annually 300 t of knitting wool and 440,000 pieces of knitwear based on 2-shift operation. Full-capacity output amounts to US \$ 2.5 million.

Reporting Unit: A one-establishment enterprise; privately owned; founded in 1888; 260 employees. Located in a developing area of the country; of local economic importance only; 10% exports. Own modest research activity in the field of synthetic fibres. Although the company is already very old, its machinery and equipment meet modern standards.

I. FIXED CAPITAL ASSETS				II. MONTHLY GROSS WAGES AND SALARIES					
				Number of persons					
(End of 1967)				(196 monthly average)		Up to			
	Original purchase value (1000 US \$)	Replace ment value (1000 US \$)	Av. age (Yrs.)	US\$	US\$	US\$	US\$	US\$	US\$
1 Primary process equipment (including installation cost)									
TOTAL	..	968	2.5						
- Process equipment	..	968	2.5						
- Hand tools & apparatus	..	-	-						
2 Buildings	..	730							
TOTAL	..	581	50						
- Primary industrial buildings (total floor space: .. m ²)	..	-	-						
- Auxiliary buildings	..	155	3						
- Warehouses	..	-	-						
- Office/administration buildings	..	194	5						
- Housing	..	-	-						
3 Auxiliary facilities (excl. buildings)	..	157							
TOTAL	..	70	4						
- Internal power equipment	..	116							
- Laboratory facilities	4	8	-						
- Means of transportation	10	10	2						
- Office equipment	15	23	2						
TOTAL PHYSICAL FIXED ASSETS (excluding land)	..	2,055							
4 Other fixed capital assets	..	232							
TOTAL	..	232							
- Land (total acreage: .. m ²)	..	-	-						
- Land improvements	..	-	-						
- Others	..	-	-						
<i>*The details of process equipment and auxiliary equipment, workshops are given on Page three (Section VIII).</i>									
III. EXTERNAL CONDITIONS				IV. MANNING TABLE					
				Number of persons					
				(1967 average)					
				Total	A	B	C	D	E
Transport (e)	external long distance	poor							
	internal long distance	poor							
	local and city	poor							
Utilities	electricity	fair							
	water	excellent							
	gas	-							
Community (e)	residence	poor							
	health and recreation	poor							
	education	poor							
(e) Transport and community facilities are rated "poor", since the establishment is situated in a small village without supply of gas, insufficient housing facilities and poor telecommunication lines.									
V. INVENTORIES				Skill categories					
(End of 1967)				A Supervisory staff and foremen (for all shifts)					
				B Skilled operatives					
				C Semi-skilled operatives (machine operators)					
				D Unskilled operatives					
Inventories				Total	A	B	C	D	E
Inventory	Actual value (1000 US \$)	Number of months							
Inventory	1,310			266	29	129	106	10	-
TOTAL									
- Production materials	516	4							
- Other input materials	26	3							
- Work-in-progress	336	3							
- Finished products	432	2							
VI. WORKING TIME FOR OPERATIVE WORKER				1st Shift					
				1st shift	2nd shift	3rd shift			
				hrs.	hrs.	hrs.			
				hrs.	hrs.	hrs.			
Shift hours/day	8	8	-	hours					
Actual hours/year	2,240	2,240	-	hours					
Actual days/year	280	280	-	days					
7. AUXILIARY UNITS				2nd Shift					
				2nd shift	3rd shift	1st shift			
				hrs.	hrs.	hrs.			
				hrs.	hrs.	hrs.			
Shift hours/day	8	8	-	hours					
Actual hours/year	2,240	2,240	-	hours					
Actual days/year	280	280	-	days					
8. AUXILIARY UNITS				3rd Shift					
				3rd shift	1st shift	2nd shift			
				hrs.	hrs.	hrs.			
				hrs.	hrs.	hrs.			
Shift hours/day	8	8	-	hours					
Actual hours/year	2,240	2,240	-	hours					
Actual days/year	280	280	-	days					
9. AUXILIARY UNITS				Total					
				Total	A	B	C	D	E
				hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
				hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
Shift hours/day	8	8	-	hours					
Actual hours/year	2,240	2,240	-	hours					
Actual days/year	280	280	-	days					

V. ANNUAL PRODUCTION

(1967)

Products for group of products

Hand knitting wool

Knitwear (flat)

Knitwear (circular)

Vr. of Prod.	Quantity produced Unit	Quantity Av. unit price on factory door	Total output value (000 US \$)
1888	kg	300,000	4.5
1948	pieces	200,000	4.8
1920	pieces	240,000	0.8

TOTAL VALUE OF PRODUCTION: 2,516

VI. VALUE ADDED

(1967)

1. Annual wages & salaries

- Operative workers

- Non-operative workers

- 29 personnel

2. Other payments for employees

3. Annual depreciation

- Machinery & equipment

- Buildings & other facilities

- Non-physical capital assets

4. Rents paid

5. Interest & royalties

6. Sales tax

7. Other indirect business taxes

8. (-) Subsidies

9. Corporate income before tax

Total
value
(000 US \$)

348

120

97

43

132

50

-

248

TOTAL VALUE ADDED: 1,038

DESCRIPTION OF MAJOR PRODUCTS:

All products are made out of fleece and acrylic fibres and are produced in series.

Hand knitting wool: packed in hanks and cloths in quantities of 1 kg, 1.5 kg and 2.5 kg.

Knitted wear: for ladies and gentlemen.

All products are of superior quality. Terms of delivery: knitting wool within 3 days, knitted wear within 2 to 3 months.

MARKET ASPECTS:

Consumers of products:

90% of total production is sold to retail stores and 10% to wholesalers.

Sales organisation:

Our representatives.

Share in the domestic market:

Hand knitting wool: 35%. Knitted wear: 3%.

Competition in the market:

Keen competition with domestic and imported products; heavy import pressure and price cuttings.

EXPORT:

Total annual export: No data available.

Major products	To Western Europe	To Eastern Europe	To Developing countries
Knitting wool	100,	-	-

VII. ANNUAL CONSUMPTION

(1967)

	Quantity consumed Unit	Quantity Consumed	% Import	Average import value (000 US \$)	Total consumption value (000 US \$)
1. Energy and water					
TOTAL:				135	
- Electricity and water	000 kWh	650 (*)	-	-	134
- Oil	t	509	-	-	1

(*) Net including 235,000 kWh of electricity and 20,000 t of water which were internally supplied.

2. Production materials

	kg	125,000	100	39	968
- Synthetic fibre (Drailes)					387

(**) Net including 84,000 kg of wool which were internally supplied.

3. Other materials & supplies

TOTAL:

- Packaging material

- Parts, supplies & services

- Other materials & supplies

4. Business services purchased

TOTAL:

- Transportation, storage & insurance

- Communication, advertising & other business services

- Commission for dealers

	Total consumption value (000 US \$)
125	125
12	12
5	5
108	108
250	250
64	64
66	66
118	118
-	-

	TOTAL VALUE OF CONSUMPTION: 1,478
mmmmmm	mmmmmm

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1)	Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Av. Age (yr)	Supplier Remarks	Supplier country	Year of installa- tion	Daily running time	Capacity output	Remarks:	
										A. Purchased second-hand	B. Old
Spinning machines	6	..	116	2	"	Germany, F.R.	1966	16 hrs	50,000 kg/yr		
Twisting frames	4	..	77	3	"		1965	16 "	70,000 kg/yr		
Rovers	6	..	70	1	"		1967	16 "	..		
Self-acting mules	1	..	27	5	"		1963	16 "	50,000 kg/yr		
Carding machine	1	..	27	4	"		1964	16 "	50,000 kg/yr		
Dyeing apparatuses	4	..	62	2	"		1966	16 "	70,000 kg/yr		
Straight knitting machines	20	..	155	3	"		1965	16 "	..		
Circular knitting machines	30	..	232	6	"		1962	16 "	..		
Sewing machines	10	..	4	5	"		1963	16 "	100 pc/day		
Bandiereling machine	1	..	1	2	"		1966	16 "	..		
Steaming machines	2	..	16	4	"		1964	16 "	200 kg/day		
Other special machines	10	..	39	3	"						
Lifts	3	..	23	10							
Boilers	1	..	39	1							
Lifting gears	5	..	3	8							
Turbines	2	..	8	3							
Other machines	..	..	31	4							

CAPACITY POWER:

Process equipment:

- electric motors kW 250

Generating equipment:

- installed capacity kVA 70

- prime movers for generating equipment kW 100

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Number	Auton.	Mechanization:		C. moderate standard	D. apparently short of today's standard	E. others combined	Automation:	
				A. most advanced	B. considerably high standard				I. fully automated	II. semi-automated
Spinning department				A	III					
Packaging department				A	II					
Winding department				A	III					
Knitting department				A	III					
Stockings department				A	II					
Sewing department				A	II					
Dyeing department				A	II					

CAPACITY UTILIZATION:

Full-capacity output 100 %, 100%.

Current utilization: based on 2-shift operation.

Major products for processing up Approximate %
to 30 40 50 60 70 80 90 100

All departments operate at full-capacity output.

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963
1964
1965
1966
1967
1968Total output
1960 US \$
1,740
1,930
2,130
2,210
2,520
2,520No. of persons employed
Total output
1960 US \$
No date available

2. Investments in the past:

From 1958 to ...

Approximate amount
1960 US \$
970Type of investment
Machinery and buildings

3. Future Plan:

From 1967 to 19...: 155

Specialization of product-mix;
rationalization of machinery
and processing methods,
expansion of premises.
Based on rationalization
efforts employment will be
lowered on the first and second
shifts.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of this size group are included in that underlined.

(1964)

Industry Knitting mills (ISIC-Code:)

1. Size groups by number of persons employed:	No. of entit.	No. of emp.	Av. W. & S. per pers. (1960 US \$)	Av. gross prod. val./per pers. (1960 US \$)	Av. value added/gross prod. ratio (%)	2. Size groups by annual value of production 1960 US \$:		Av. W. & S. per pers. (1960 US \$)	Av. gross prod. val./per pers. (1960 US \$)	Av. value added/gross prod. ratio (%)	
						No. of entit.	No. of emp.				
Up to 19	642	2,089	933	4,660	50	up to 20	501	745	580	58	
20 - 99	168	7,052	1,117	4,845	54	20 - 40	73	556	931	55	
100 - 499	41	7,860	1,295	5,333	49	40 - 200	158	3,981	954	54	
500 - 999	4	7,541	1,543	6,105	54	200 - 400	51	2,717	1,207	55	
over 1,000	3↑	0	0	0	0	400 - 2,000	55	7,965	1,314	51	
						over 2,000	10	8,578	1,524	52	
TOTAL:	848	24,542	1,289	5,373	52	TOTAL:	848	24,542	1,289	5,373	52

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services:
1. Engineering study
 2. Financial assistance
 3. Industrial services
 4. Equipment supply,
 5. Technical and managerial personnel
 6. Industrial training
 7. Technical consultancy
 8. Import and export transaction
 9. Admission of foreign labour
 10. Institution & maintenance

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
				No data available.

XIII. SUPPLEMENTS & NOTES

Bottlenecks and current problems:

In the past a lack of skilled personnel hampered the growth of the output. Problem has been solved.

Presently, the company has to face out prices and increasing costs.

Inventory policy:

On the average, the stock of finished products amounts to 35% of the total value of production.

Major Products: Braies and suspender belts. Capable of producing annually close to US \$ 1 million based on 1-shift operation. Business year: 1.7.1967 - 30.6.1968.

Reporting Unit: A one-establishment enterprise originally founded in 1893; privately owned. Only since 1958 production of corsetry. Efficient medium sized enterprise utilizing modern equipment not older than 3 years on the average. No production of special brands. So far only regional significance, although efforts are being made to export to Western and Eastern countries as well. 170 employees.

I. FIXED CAPITAL ASSETS

(30/6/1968)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	65	77	3
- Process equipment *	65	77	-
- Hand tools & apparatuses	-	-	-
2. Buildings	108	108	
TOTAL			
- Primary industrial buildings (total floor space: 900 m ²)	93	93	2
- Auxiliary buildings	15	15	2
- Warehouses	-	-	-
- Office administration buildings	-	-	-
- Housing	-	-	-
3. Auxiliary facilities (excl buildings)	25	30	
TOTAL			
- Internal power equipment	14	17	3
- Laboratory facilities	-	-	-
- Means of transportation	3	3	4
- Office equipment	8	10	5
TOTAL PHYSICAL FIXED ASSETS (excluding land):	198	215	
4. Other fixed capital assets	15	15	
TOTAL			
- Land (total acreage: - m ²)	-	-	-
- Land improvements (t.scr. 5,000 ")	15	15	-
- Others	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

Number of personnel

(as per end of 1968)

	up to 100 US\$	100 -140 US\$	140 -160 US\$	160 -240 US\$	240 -360 US\$	over 360 US\$
1. Local non-operatives: - Foremen	-	1	3	1	-	-
- Managers	-	-	-	-	-	1
- Engineers	-	-	-	-	-	-
- Technicians	-	-	-	-	-	-
- Accountants	-	1	-	2	-	-
- Sales officers	-	-	3	2	-	-
- Clerks and typists	-	3	1	1	-	-
- Designers	-	-	1	1	-	-
- Sales managers	-	-	-	-	-	-
- Supervisors	-	-	-	-	1	-
2. Local operatives						
- Supervisors } (*)	-	-	-	-	-	-
- Foremen	-	-	-	-	-	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators	91	34	5	-	-	-
- Craftsmen	-	-	-	1	-	-
- Truck drivers	-	-	1	-	-	-
- Unskilled operatives (**)	1	4	-	-	-	-
- Other full-time operatives	3	1	-	-	-	-
- Part-time operatives	2	-	-	-	-	-
- Storemen	-	2	-	-	-	-
- Control operatives	-	1	4	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

(*) The company considers supervisors and foremen as local non-operatives

(**) Including operatives of forwarding section

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport: external long distance fair
internal long distance excellent
local and city "

Utilities: electricity excellent
water "
gas "

Community: residence insignificant
health and recreation "
education poor

Own Welfare Facilities: -
The majority of machine operators was brought up in rural districts. Due to insufficient education very low output during first months of employment.

III. INVENTORIES

(30/6/1968)

	Actual value (1000 US \$)	Number of months
Inventories	122	
TOTAL:		
- Production materials	46	2
- Other input materials	2	~3
- Work-in-process	31	~1
- Finished products	43	1-2

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
- Shift hours/day:	9	-	-	hours
- Actual hours/year:	2,070	-	-	hours
- Actual days/year:	230	-	-	days

IV. MANNING TABLE

Number of personnel

(as per 30 Dec. 1968)

	Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
ALL SHOPS & UNITS:	172	23	-----	149	-----	-----	-----	-----
1. Primary operative shops	142	5	9	128	-	-	-	-
- Cutting and setting	6	2	2	2	-	-	-	-
- Sewing	136	3	7	126	-	-	-	-
2. Auxiliary operative units	12	1	-----	11	-----	-----	-----	-----
- Repair & maintenance	1	-	-----	1	-----	-----	-----	-----
- Mechanical shop	-	-	-----	-	-----	-----	-----	-----
- Tooling shop	-	-	-----	-	-----	-----	-----	-----
- Utilities control	-	-	-----	-	-----	-----	-----	-----
- Product & material storage	2	-	-----	2	-----	-----	-----	-----
- Off-site transport	1	-	-----	1	-----	-----	-----	-----
- Guards, cleaners, etc.	2	-	-----	2	-----	-----	-----	-----
- Dispatch	6	1	-----	5	-----	-----	-----	-----
3. Auxiliary non-operative units	18	17	-----	1	-----	-----	-----	-----
- Production management	2	2	-----	-	-----	-----	-----	-----
- Research & development	3	2	-----	1	-----	-----	-----	-----
- Sales unit	7	7	-----	-	-----	-----	-----	-----
- Accounting	3	3	-----	-	-----	-----	-----	-----
- General administration	3	3	-----	-	-----	-----	-----	-----

V. ANNUAL PRODUCTION

(1967/68)		Vr. of Prod.	Quantity produced Unit	Quantity	Avg. unit price in factory US \$	Total output value 1000 US \$
Brasieres	1959	pieces	379,000	2.05	780	
Suspender belts	1960	"	57,000	0.77	44	
TOTAL VALUE OF PRODUCTION:						824

VI. VALUE ADDED

(1967/68)		Total value (1000 US \$)
1. Annual wages & salaries		170
- Operative workers	116	
1. 125 persons		
- Non-operative workers	54	
1. 22 persons		
2. Other payments for employees		69
3. Annual depreciation		35
- Machinery & equipment	23	
- Buildings & other facilities	10	
- Non-physical capital assets	2	
4. Rentals paid		4
5. Interest & royalties		11
6. Sales tax		40
7. Other indirect business taxes		2
8. (-) Subsidies		-
9. Corporate income before tax		49

TOTAL VALUE ADDED: **380**

DESCRIPTION OF MAJOR PRODUCTS:

Fashionable corsetry with lace-trimming; serial production.

Each unit is packed in plastic bags as well as in single cardboard boxes. Cheaper products for department stores are not packed at all.

Terms of delivery: 3 weeks delivery time for standard goods, for special models equal to amount of time needed to supply raw materials.

MARKET ASPECTS:

Sales organisation: Own sales organisation for the whole country.
 Products can also be ordered by chain stores, department stores and mail-order houses.

Market and competition: Products can be disposed all over the country; no transport difficulties. Share in domestic market approximates 5%. Keen competition with well-known brands, however, existence of price advantages; differences in quality of minor importance, since competitors are using same raw materials and machinery. Almost no competition with imported articles.

EXPORT:

Total annual export: 74,000 US \$.

Major products	To Western countries	To Communist countries	To Developing countries
Brasieres and suspender belts	100%	-	-

Export price policy:

Adjustment to competing prices of major international producers.

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967/68)		Quantity consumed Unit	Quantity Consumed Value 1000 US \$	Total consumption value 1000 US \$
1. Energy and water TOTAL:				5
- Electricity	000 kWh	83	-	2
- Liquid fuels	"	"		7
- Gas	000 m³	22		0.7
- Water	000 m³	"		0.3
2. Production materials TOTAL:				398
Various fabrics, laces, plastic parts, heads and eyes, clamps	..	..	60	49 (*)

(*) Including import compensation tax.

3. Other materials & supplies

TOTAL:	Total consumption value 1000 US \$
- Packaging material (plastic bags, boxes, cardboard boxes, labels)	5
- Parts, supplies & services	1
- Other materials & supplies	2

4. Business services purchased

TOTAL:	Total consumption value 1000 US \$
- Transportation, storage & insurance	5
- Communication, advertising & other business services	68

5. Work performed by subcontractors

TOTAL:	Total consumption value 1000 US \$
	-

TOTAL VALUE OF CONSUMPTION: **444**

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (II.1.)

	Number	Original purchase value 1000 US \$	Replace- ment value 1000 US \$	Ave. Age Yrs	Remarks	Supplier country	Year of instal- lation	Daily running time
Belt knife machines	2	4	5	5	-	F.R.Germ.	1965	5 hrs
Stamping machine (*)	1	3	3	2	-	Austria	1966	7-9 hrs
High speed 3-stitch sewing machines	8	5	6	3	-	USA	1966	4-5 hrs
Folding machine	1	5	6	3	-	F.R.Germ., USA,Switzerl.	..	9 hrs
Various sewing machines	122	36	45	4	-	F.R.Germ., USA,Switzerl.	..	9 hrs
Conveyor belts	3	12	12	2	SC			

(*) It is planned to use stamping machines instead of belt knife machines because of their higher precision and cutting capacity.

CAPACITY POWER:

Process equipment:

- electric motors 80 kW

Generating equipment:

- installed capacity - kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		C: moderate standard	E: non-automated	Automatization:	D: appreciably above today's standard	F: almost automated	G: fully automated	H: semi-automated	Capacity utilization
		A: most advanced	B: considerably high standard								
Cutting room	Fabrics are arranged in layers by folding machine; cutting by belt knives or by stamping machines.	B	II								2,000 pieces/day 100%
Sewing shop	3 conveyor belts, pieces work	C	II								450,000 pieces/yr. almost 100%

CAPACITY UTILIZATION:

Full-capacity output: US \$ 3,968,000.

Full capacity output could be reached without any additional operatives.

Current utilization:

Major products for processes	up to 30 40 50 60 70 80 90 100					Approximate %			
	to 30	40	50	60	70	80	90	100	
Brassieres and suspender belts	x								

Current over-all utilization rate of close to 100% is due to excellent demand for the products manufactured and good supply of raw materials. Full capacity output could be attained if machine operators could be better trained.

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963/4
1964/5
1965/6
1966/7
1967/8
1968/9

Total output
1000 US \$No. of
persons
employed

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XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- 1. Engineering study
 - 2. Financial assistance
 - 3. Industrial services
 - 4. Equipment supply
 - 5. Technical and managerial personnel
 - 6. Industrial training
 - 7. Technical consultancy
 - 8. Import and export transaction
 - 9. Admission of foreign labour

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
8				The establishment is interested in exporting its products. On the other hand, there seem to be almost no possibilities for imports of raw materials, since they have to be of superior quality.
6 and 9				The employment as well as the training of foreign workers both from developing and developed countries is of little interest to the company.

XII. SUPPLEMENTS & NOTES

Working capital: (000 US \$)

Liquid assets (average):	
- Cash on hand and in bank (*)	33
- Marketable securities and bonds	2
- Accounts receivable from delivery of goods and services	93
- Other accounts receivable	12
- Prepaid expenses	-
Total average liquid assets	140

(*) Cash on hand and in bank is usually very high at the end of the business year.

History of production and investment:

In 1959, when the production of corsetry was started, the break-even point was surpassed at a total value of production of approximately US \$ 194,000.

Depreciation policy:

Application of the straight-line method. Fixed assets are written off within 10 years, except for buildings which are depreciated within 25 years.

Training:

The suppliers of new machinery provide training facilities for operatives of the enterprise.

Future plan: (ad IX. History and Plan, page 3)

The company intends to expand mass production of cheap brassieres. Only 2% of normal production time is required.

Major Products: Men's coats, suits, jackets, trousers and vests.

Full capacity output approximates US \$ 1.7 million on 1-shift operation.

Business year: 1 October 1967 - 30 September 1968.

Reporting Unit: A one-establishment enterprise, privately owned. The company started industrial production in 1954; expansion of a regular tailor shop and cloth-trading business into an industrial firm. Belongs now to the 5 largest manufacturers of men's clothing. Close to consumer markets, excellent external conditions. Exports are promoted and increase fast; presently 14% of sales. 220 employees.

I. FIXED CAPITAL ASSETS

(30/9/1968)

	Original purchase value (1000 US \$)	Replace ment value (1000 US \$)	Ave. age (Yrs.)
1 Primary process equipment (including installation cost)			
TOTAL	275	284	4
- Process equipment *	275	284	4
- Hand tools & apparatuses	-	-	-
2 Buildings	257	428	7
- Primary industrial buildings (total floor space: 2,154 m ²)	152	228	8
- Auxiliary buildings	28	43	8
- Warehouses	49	74	8
- Office/administration buildings	14	21	8
- Housing	44	62	5
3 Auxiliary facilities (excl. buildings)	51	56	
TOTAL	613	768	
- Internal power equipment (Steam)	8	10	10
- Laboratory facilities	-	-	-
- Means of transportation	31	31	3
- Office equipment	12	15	6
TOTAL PHYSICAL FIXED ASSETS (excluding land)	613	768	
4 Other fixed capital assets	29	36	
TOTAL	29	36	
- Land (total acreage: 1,700 m ²)	21	21	-
- Land improvements (t.acr.4,591 ")	8	15	-
- Others	-	-	-

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967/68 monthly average)

	up to 100 US\$	100-140 US\$	140-160 US\$	160-240 US\$	240-560 US\$	over 560 US\$
1. Local non-operatives						
- Managers	-	-	-	-	-	3
- Engineers	-	-	-	-	-	-
- Technicians	-	-	-	-	2	-
- Accountants	-	-	-	2	1	-
- Sales officers	-	-	2	3	1	-
- Clerks and typists	3	5	4	3	-	-
2. Local operatives						
- Supervisors	-	-	-	-	-	1
- Foremen	-	-	-	5	-	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators (*)	28	7	-	-	-	-
- Craftsmen	-	-	4	2	-	-
- Truck drivers	-	-	-	2	-	-
- Unskilled operatives	2	-	-	-	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	5	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	1
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	28	8	4	-	-
- Unskilled operatives	-	-	-	-	-	-
- Machine operators (*)	18	4	-	-	-	-

(*) Female workers who either are semi-skilled or still being trained for this particular job. Their monthly average wage approximates US \$ 108.- as per 1968.

*NR: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport	external long distance	Excellent
	internal long distance	"
	local and city	"
Utilities:		
electricity	Excellent	
water	"	
gas	"	
Community:	residence	Excellent
	health and recreation	"
	education	Fair
Own Welfare Facilities:	-	

III. INVENTORIES

(30/9/1968)

	Actual value (1000 US \$)	Number of months
Inventories	341	
TOTAL:		
- Production materials	155	2
- Other input materials	12	3
- Work-in-process	116	1.5
- Finished products	58	0.5

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours
Shift hours/day:	9	-	-
Actual hours/year:	2,070	-	-
Actual days/year:	230	-	-

IV. MANNING TABLE

(number of persons)

(1967/68 average)

	Total	A	B	C	D	E-D	E-D
ALL SHOPS & UNITS:	220	43		177			
1. Primary operative shops	178	10	103	57	8	-	-
- Tailor shop	31	3	19	7	2	-	-
- Sewing shop	131	5	77	45	4	-	-
- Pressing shop	11	1	5	3	2	-	-
- Finishing shop	5	1	2	2	-	-	-
2. Auxiliary operative units	16	10		6		-	-
- Repair & maintenance	3	1		2		-	-
- Mechanical shop	-	-		-		-	-
- Tooling shop	-	-		-		-	-
- Utilities control	2	2		-		-	-
- Product & material storage	4	2		2		-	-
- Off-site transport	2	2		-		-	-
- Guards, cleaners, etc.	2	-		2		-	-
- Others	3	3		-		-	-
3. Auxiliary non-operative units	26	23		3		-	-
- Production management	1	1		-		-	-
- Research & development	5	2		3		-	-
- Sales unit	10	10		-		-	-
- Accounting	5	5		-		-	-
- General administration	5	5		-		-	-

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- | | | |
|---|---------------------------------------|--------------------------------|
| 1. Engineering study | 5. Technical and managerial personnel | 8. Import and export promotion |
| 2. Financial assistance | 6. Industrial training | 9. Admission of foreign labour |
| 3. Industrial services | 7. Technical consultancy | |
| 4. Equipment supply, installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project

8

The company does not foresee any possibilities to import raw materials from developing countries.

9

On principle foreign workers could be employed. So far the demand for unskilled labour could be satisfied regionally.

XIII. SUPPLEMENTS & NOTES

Commission work:

The company performed commission work for 8 different contractors. Total commission received amounted to US \$ 23,000. The jigger and foulard dyeing methods were applied to dye linings. Finishing, measuring and folding of lining was also done.

On the other hand, umbrella fabrics and brocades were dyed and printed by 7 subcontractors. Total commission paid amounted to US \$ 50,000.

Technological features:

Fabric weaving: Automatic looms are almost exclusively utilized, 1/3 of them are provided with multi-colour weft changing; 20 Jacquard looms.

Hippe weaving: Mainly conventional looms, 1/3 of them are Jacquard looms.

Additional preparatory machinery, dyeing and finishing equipment for linings and umbrella material.

Bottlenecks in the plant:

Lack of personnel and of capacity.

Current problems:

Rather narrow domestic market. The enterprise reports difficulties in getting the right raw materials (rayos). Due to insufficient supply with working capital customers frequently request prolonged terms of payment. Increase of insolvencies in clothing industry.

Inventories policy:

Value of finished products on stock amounts to 14.5% of total value of production.

V. ANNUAL PRODUCTION

(1968)		Yr. of first prod.	Quantity produced	Avg. unit price at factory	Total output value (\$000 US \$)
Product or group of products	Unit		Unit		
Men's clothing:					
Coats	1955	pieces	18,522	29.0	538
Suits	"	"	16,826	31.3	527
Lounge jackets	"	"	10,522	16.3	171
Jackets	"	"	6,161	15.6	96
Trousers	1962/63	"	7,723	4.5	35
Sweaters	1966/67	"	1,573	7.8	28
Revenue from contract and commission work					46
TOTAL VALUE OF PRODUCTION:					1,441

VI. VALUE ADDED

(1968)		Total value (\$000 US \$)
1. Annual wages & salaries		
- Operative workers	203	322
- Non-operative workers	119	
2. Other payments for employees		81
3. Annual depreciation		54
- Machinery & equipment	34	
- Buildings & other facilities	19	
- Non-physical capital assets	1	
4. Rents paid		13
5. Interest & royalties		2
6. Sales tax		63
7. Other indirect business taxes		9
8. (-) Subsidies		-
9. Corporate income before tax		136
TOTAL VALUE ADDED:		680

DESCRIPTION OF MAJOR PRODUCTS:

All clothes are made to order in series of 300 - 6,000 pieces. About 25 different models are at disposal per season.

Within the country 80% of the production is shipped in company-owned vans designed for the transport of clothes; the remaining 20% is shipped in partomes.

Main emphasis on production of a comfortable suit for car-drivers (Special design and quality of material).

MARKET ASPECTS:

Customers of products:

Men from the age of 16 and above.

Sale organization:

The establishment's sales organization employs 6 salesmen. The company is represented in 12 Western European cities. Share in the domestic market of men's clothing about 10%.

EXPORT: US \$ 275,000.
Total annual export:

Major products	To Western countries	To Eastern countries	To Developing countries
Waterproof woolen overcoats	100%	-	-
National dresses	100%	-	-
Men's suits	100%	-	-

Exports:

Practically to all Western European countries.

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1968)		Quantity consumed	% import	Average import dollar value (\$000 US \$)	Total consumption value (\$000 US \$)
		Unit	Unit		
1. Energy and water					
TOTAL:					15
- Electricity	000 kWh	422		7	
- Fuel oil	t	162		4	
- Gasoline	t	7.5		1	
- Diesel oil	t	20		2	
- Water	000 m³	15		1	
2. Production materials					
TOTAL:				618	
- Fabrics	m	139,770	18	37	563
- Accessories	various	..	18	37	50
- Ready-made clothes (*)	pieces	828	18	37	5

(*) Bought from other enterprises for completion of own production programme. Only of minor importance.

3. Other materials & supplies

TOTAL:	16
- Packaging material (cartons, cardboards)	6
- Parts, supplies & services	-
- Other materials & supplies	10

4. Business services purchased

TOTAL:	103
- Transportation, storage & insurance	27
- Communication, advertising & other business services (*)	76

5. Work performed by subcontractors

TOTAL:	9
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TOTAL VALUE OF CONSUMPTION: 761

(*) Including commissions for non-company representatives.

VIII. TECHNOLOGICAL CHARACTERISTICS

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

~~For Confidentiality: these site groups are included in the undelivered sites.~~

(1964) Manufacture of wearing apparel
except footwear

Industry		Geographic area		(SIC Code: 243)		2. Size groups by annual sales of production (1980 U.S.\$)		3. Size groups by annual sales of production (1980 U.S.\$)			
	No. of estab.	No. of emplo.	Ave. W. & S. per pers. (U.S.\$)	Ave. gross prod. val./per pers. (U.S.\$)	Ave. value added/gross prod. ratio (%)	No. of estab.	No. of emplo.	Ave. W. & S. per pers. (U.S.\$)	Ave. gross prod. val./per pers. (U.S.\$)	Ave. value added/gross prod. ratio (%)	
1. Size groups by number of persons employed:											
up to	19	12,978	22,902	171	1,916						
20 -	99	439	18,646	1,171	1,220						
100 -	499	105	21,412	1,263	5,558						
500 -	999	2	C	C	C						
over 1,000		1	C	C	C						
TOTAL:	13,525	62,960	1,057	4,960	47						
						TOTAL:	13,525	62,960	1,057	4,960	47

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1 Engineering study	1 Technical and managerial personnel	4 Import and export management
2 Financial assistance	2 Industrial training	5 Transfer of foreign technology
3 Technical services	3 Industrial consultancy	6 Administration of foreign labour
4 Equipment supply	4 Technical consultancy	

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services	Country or region	No. of projects	Field of industry	Description of project
1				The company is willing to prepare engineering studies for the production of men's and ladies' clothing. Experts to solve engineering, technical and commercial questions are available.
2				Under certain circumstances the company would be interested in a joint venture.
3				Due to the high level of productivity achieved through continuous application of time and motion analyses the enterprise could provide know-how, e.g. on plant layout, production techniques and work methods.
4				Some 200 used machines (for sewing, cutting-out, and pressing) could be disposed of capable of producing 1,500 trousers per day. A plant of this size would require some 150 operatives. If requested, company could supply plan for layout of machinery.
5				Company could provide limited number of experts.
6				The establishment is prepared to train industrial operatives such as needle-women, substitutes, production managers and time and motion analysts. Various training facilities are available. Company also offers apprenticeships lasting between 3 and 5 years for well qualified applicants who should be educated to join the managerial staff in their mother-countries.
8				Exports could be offered at highly competitive prices.
9				30 - 40 foreign workers (mainly women) could be easily employed.

XII. SUPPLEMENTS & NOTES

History of production:

The break-even point was surpassed for the first time in 1955.

Depreciation policy:

Both the straight-line and the accelerated methods are applied. Buildings are depreciated by 2%, equipment by 8 - 12% and machinery by 10 - 12%.

Commission work:

The company manufactured uniform jackets on commission basis amounting to US \$ 46,000, although generally no commission work is done.

On the other hand, subcontractors were supplied with cut-out material to sew jackets, vests and coats. Amount annually spent on commissions: US \$ 16,000.

Training:

In-plant training only. Exchange of experience with companies in 14 European countries.

Major Products: Men's shirts and children's shirts. Capable of producing about 320,000 men's shirts and 150,000 children's shirts annually based on 1-shift operation. Full-capacity output amounts to US \$ 1.4 million.

Reporting Unit: Founded in 1960 as a branch of a renowned textile trading company which intends to become more independent of other shirt manufacturers. Privately owned; 176 employees; located in a developing area of the country; no exports.

I. FIXED CAPITAL ASSETS

(End of 1967)	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1 Primary process equipment (including installation cost)	96	132	
TOTAL	-	-	7
- Process equipment *	95	131	
- Hand tools & apparatuses	1	1	-
2 Buildings	155	252	
TOTAL	155	252	
- Primary industrial buildings (total floor space: 1,350 m ²)			
- Auxiliary buildings			
- Warehouses	155	252	16
- Office administration buildings			
- Housing			
3 Auxiliary facilities (excl. buildings)	16	19	
TOTAL	-	-	-
- Internal power equipment	-	-	-
- Laboratory facilities	-	-	-
- Means of transportation	7	8	4
- Office equipment	9	11	19
TOTAL PHYSICAL FIXED ASSETS	267	403	
(excluding land)			
4 Other fixed capital assets		54	
TOTAL	-	54	-
- Land (total acreage: 20,000 m ²)	-	54	-
- Land improvements	-	-	-
- Others	-	-	-

*NB: Details of process equipment and capacity of primary operatives are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

(1967 monthly average)	Number of personnel					
	Up to 100 US\$	100-140 US\$	140-160 US\$	160-240 US\$	240-360 US\$	over 360 US\$
1. Local non-operatives						
- Managers	-	-	-	-	-	-
- Engineers	-	-	-	-	-	-
- Technicians	-	-	-	-	-	-
- Accountants	-	-	-	-	-	-
- Sales officers	-	-	-	-	-	-
- Clerks and typists	-	3	1	-	-	-
- Foremen	-	4	1	1	-	-
- Warehouse superintendents and clerks	-	1	-	1	-	-
2. Local operatives						
- Supervisors (*)	-	-	-	-	-	-
- Foremen (*)	-	-	-	-	-	-
- Skilled operatives (**)	-	-	-	-	-	-
- Machine operators	-	148	11	-	-	-
- Craftsmen	-	1	1	-	-	-
- Truck drivers	-	-	1	-	-	-
- Unskilled operatives	-	1	-	-	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Managerial staff						not applicable
- Technical staff						
- Other skilled operatives						
- Unskilled operatives						

(*) Company considers foremen as local non-operatives.

(**) Included in "Machine operators".

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories	155	
TOTAL:		
- Production materials	77	
- Other input materials	12	
- Work-in-process	66	
- Finished products		

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day:	9	-	-	hours
Actual hours/year:	2,230	-	-	hours
Actual days/year:	248	-	-	days

IV. MANNING TABLE

(1967 average)	Number of personnel					
	Total	A	B	C	D	E
ALL SHOPS & UNITS:	176	13	155	16	162	16
1. Primary operative shops	165	6	4	155	-	-
- Cutting shop	11	3	-	8	-	-
- Sewing shop	128	2	4	122	-	-
- Finishing shop	26	1	-	25	-	-
2. Auxiliary operative units	6	2	4	-	-	-
- Repair & maintenance	2	-	2	-	-	-
- Mechanical shop	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-
- Utilities control	-	-	-	-	-	-
- Product & material storage	2	2	-	-	-	-
- Off-site transport	1	-	1	-	-	-
- Guards, cleaners, etc.	1	-	1	-	-	-
3. Auxiliary non-operative units	5	5	-	-	-	-
- Production management	-	-	-	-	-	-
- Research & development	-	-	-	-	-	-
- Sales unit	2	2	-	-	-	-
- Accounting	3	3	-	-	-	-
- General administration						

Skill categories: A. Supervisory staff and foremen (for all shifts)
B. Skilled operatives
C. Semi-skilled operatives (machine operators)
D. Unskilled operatives

V. ANNUAL PRODUCTION

(1967)	Vr. of prod.	Quantity produced Unit	Av. unit price on factory floor (\$)	Total output value (\$000 US \$)
Men's shirts	1960	000 pcs	294	
Children's shirts	1960	000 pcs	136	
TOTAL VALUE OF PRODUCTION:				1,173

VI. VALUE ADDED

(1967)	Total value (\$000 US \$)
1. Annual wages & salaries	199
- Operative workers	171
- Non-operative workers	28
2. Other payments for employees	61
3. Annual depreciation	29
- Machinery & equipment	15
- Buildings & other facilities	14
- Non-physical capital assets	0.1
4. Rentals paid	-
5. Interest & royalties	27
6. Sales tax (+)	1
7. Other indirect business taxes	1
8. (-) Subsidies	-
9. Corporate income before tax	41
(*) See page A/XII Supplements	
TOTAL VALUE ADDED:	
	359

DESCRIPTION OF MAJOR PRODUCTS:

Company emphasizes high quality of its products. Very fashionable shirts. Serial production.
Prompt delivery.

MARKET ASPECTS:

Sales organisation:

The company does not employ own district representatives due to the fact that it produces exclusively for one large textile trading company (parent company).

Extent of market:

Domestic market only. Main sales areas: 2 largest cities of the country.

Share in the domestic market:

7 - 8%.

Competition in the market:

Keen competition due to imports partly offered at dumping prices by low wage countries.

EXPORT:

Total annual export: No exports.

Major products	To Western countries	To Eastern countries	To Developing countries

No exports because the present assortment of shirts is still too limited for the European market.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity	% import	Average import dollar (\$000 US \$)	Total consumption value (\$000 US \$)
1. Energy and water <i>TOTAL:</i>					10
- Electricity	000 kWh	176	-	-	6
- Coke	t	30	-	-	1
- Petrol and diesel oil	t	..	-	-	1
- Fuel oil	t	21	-	-	1
- Water	000 m³	4.3	-	-	1
2. Production materials <i>TOTAL:</i>				755	
- Fabrics (standard width 90 cm)	000 m	900	30	46	696
- Threads and yarns	..	..	-	-	12
- Labels and buttons	..	..	-	-	16
- Miscellaneous	..	..	-	-	31

Total consumption value (\$000 US \$)	
3. Other materials & supplies <i>TOTAL:</i>	
- Packaging material (cardboard boxes)	29
- Parts, supplies & services	-
- Other materials & supplies	1
4. Business services purchased <i>TOTAL:</i>	
- Transportation, storage & insurance	5
- Communication, advertising & other business services	14
5. Work performed by subcontractors <i>TOTAL:</i>	
	-
TOTAL VALUE OF CONSUMPTION:	
	814

VIII. TECHNOLOGICAL CHARACTERISTICS

	Number	Original Purchase Value (\$'000 US \$)	Replac- ement value (\$'000 US \$)	Av. Age (yrs)	Remarks	Supplier country	Daily running time	Capacity output
DETAIL OF PROCESS EQUIPMENT (8.1.3):								
Tables for cutting to size with Band iron	2	11.2	13.9	15		Germany, F.R.	9 hrs 9 "	
Vertical cutting device (maximum cutting depth 17 cm)					"			
Fabric laying machine	1	9.3	10.8	4		Switzerland, mainly USA and	4 "	2,000,000 m/year
Sewing machines	120	37.5	59.6	12		Germany, F.R.	9 "	
Button breakers	2	9.2	10.4	3		Germany, F.R.	8 "	
Button stitchers	2	3.6	4.3	3		Italy, USA	7 - 8 hrs	
Multiple-purpose automatic machine	1	5.9	7.0	3		Germany, F.R.	6 hrs	
Process for linens and cloths	6	12.0	14.0	10		Austria, Germany, F.R., Switzerland	9 "	100-150 pieces per hour
Conveyor belt	1	..	1.5	4		Switzerland,	8 "	
Linen marking machine	1	..	..	7		Germany, F.R.		
Others	..	7.1	9.6	-				

CAPACITY POWER:

Process equipment:

- electric motors 85 kW

Generating equipment:

installed capacity - kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Manufacturing:		C machine standard	D apparently short of today's standard	E others / modified	Automation:
		A most advanced	B considerably high standard				
Cutting	Fabrics are spread out on cutting table by fabric-laying machine, smoothening is done by hand	B	II				Approx. cutting thickness: 10 - 12 cm
Sewing	No conveyor-line production	C	III				Approx. 1,000,000 m (linear measure, standard width 90 cm) can be processed every year
Finishing	Finishing, pressing, folding, packaging	A	II				

CAPACITY UTILIZATION:

Full-capacity output: US \$ 1,400,000.

No additional labour requirements.

Current utilization: Based on 1-shift operation.

up to 30	up to 40	up to 50	up to 60	up to 70	up to 80	up to 90	up to 100
Major products for processing	..	..	..	..	..	..	..

Shirt manufacturing

Factors responsible for the present capacity utilization:

1. Fluctuations in supply of production materials are an obstacle to the manufacturing process.

2. Lack of skilled operatives.

For the time being output is not high enough to meet demand.

IX. HISTORY & PLAN

1. Performance in the past:	Total output (\$'000 US \$)	No. of persons employed	Total exports (\$'000 US \$)
Year: 1963	650	140	-
1964	880	181	-
1965	1,020	191	-
1966	1,080	176	-
1967	1,200	176	-
1968	1,280	158	-
2. Investments in the past:			
From 1960 to 1965:	155		Approximate amount (\$'000 US \$)
	270		Type of investment
In 1967:	10		Construction of plant
			Equipment and machinery
3. Future Plan:			
From 19 - to 19 - :			Only replacement investments
			are planned within the next years.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in those underlined.

(1960)

Industry Manufacture of wearing apparel except footwear (ISIC Code: 243)

1. Size groups by number of persons employed	No. of employ.	No. of empl.	Av. W. & S. per pers. (\$'000 US \$)	Av. gross prod. val/ per pers. (\$'000 US \$)	Av. value added/prod. prod. value (%)	2. Size groups by annual sales of production (\$'000 US \$)		Av. W. & S. per pers. (\$'000 US \$)	Av. gross prod. val/ per pers. (\$'000 US \$)	Av. value added/prod. prod. value (%)
						No. of empl.	No. of empl.			
up to 19	12,978	22,902	7.77	3,876	53	up to 20	12,018	14,715	807	80
20 - 39	439	18,646	1,171	5,220	47	20 - 40	585	4,599	935	340
100 - 499	105	21,612	1,263	5,958	44	40 - 60	622	11,769	1,061	4,483
500 - 999	2	c	c	c	c	200 - 400	130	6,369	1,192	5,473
over 1,000	1	c	c	c	c	400 - 2,000	157	18,326	1,269	6,464
						over 2,000	15	7,182	1,356	6,692
TOTAL:	13,525	62,960	1,057	4,960	47	TOTAL:	13,525	62,960	1,057	4,960

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Engineering study	1. Trained and managerial personnel	8. Import and export promotion
2. Financial assistance	4. Industrial training	9. Admission of foreign labour
3. Industrial services	7. Technical consultancy	
4. Equipment supply, including & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project

8

The enterprise is interested in importing low-priced fabrics (for the manufacture of fashionable and low quality shirts).

Although the enterprise cannot cope with the present domestic demand it is inclined to venture to export its products if the government is willing to provide the company with export credits.

XII. SUPPLEMENTS & NOTES

Delays in the plant:

Lack of personnel, delayed supply of production materials.

Depreciation policy:

The straight-line method is applied.

Training expenses:

In 1967 no training courses were held.

ad VI. Value added:

Only the sales tax for products bought by employees is included in this computation. Taxes for all other sales are borne by the parent company.

Major Products: Ladies' dresses and suits.

Capable of producing about 90,000 dresses annually. Full capacity output amounts to US \$ 1.16 million based on 1-shift operation.

Reporting Unit:

A one-establishment enterprises; founded in 1956. One of the 3 largest enterprises of this branch in the country;
143 employees; 13% exports; latest fashion trends are continuously studied and adopted.

I. FIXED CAPITAL ASSETS				II. MONTHLY GROSS WAGES AND SALARIES						Number of personnel		
(End of January 1968)				Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)	(1967 monthly average)					
							up to 100 US\$	100 US\$	140 US\$	160 US\$	240 US\$	over 360 US\$
1. Primary process equipment (including installation cost)				85	107							
TOTAL:				85	107	..						
- Process equipment *				-	-	-						
- Hand tools & apparatuses												
2. Buildings				100	201	13						
TOTAL:				100	201	13						
- Primary industrial buildings (total floor space: 960 m ²)				100	201	13						
- Auxiliary buildings												
- Warehouses												
- Office administration buildings				-	-	4						
- Housing						-						
3. Auxiliary facilities (excl. buildings)				44	46							
TOTAL:				44	46							
- Internal power equipment				-	-	-						
- Laboratory facilities				-	-	-						
- Means of transportation				17	17	2						
- Office equipment				27	29	4						
TOTAL PHYSICAL FIXED ASSETS (excluding land):				229	354							
4. Other fixed capital assets												
TOTAL:				23	52							
- Land (total acreage: .. m ²)				4	31	-						
- Land improvements				..								
- Others				19	21	-						

~~2009. Details of process equipment and capacity of primary operating units are given on Page three (Section VIII).~~

EXTERNAL CONDITIONS:

Transport:	- external long distance	fair
	- internal long distance	"
	- local and city	poor
Utilities:	- electricity	excellent
	- water	"
	gas	insignificant
Community:	residencies	fair
	health and recreation	"
	education	"
Other Welfare Facilities:		Pension fund

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(End of January 1968)	Actual Value MRO US \$)	Number of months
Inventories		
TOTAL:		
- Production materials	46	2
- Other input materials	1	2
- Work-in-process	31	1
- Finished products	(*) 77	6 days - 2 months

INTERVIEW WITH OUR COOPERATIVE WORKER

	1st	2nd	3rd
	shift	shift	shift
Shift Inventory	9	-	-
Actual Inventory	2,000	-	-
Less Reserves	232	-	-

V. ANNUAL PRODUCTION

(1967)		Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory EUR \$1	Total output value 1000 US \$1
Ladies' dresses and suits		1956	pcn	80,400	10	807

TOTAL VALUE OF PRODUCTION: 807

VI. VALUE ADDED

(1967)		Total value 1000 US \$1
1. Annual wages & salaries		175
- Operative workers	128	
(22 percent (%))		
- Non-operative workers	47	
(21 percent)		
2. Other payments for employees		50
3. Annual depreciation		19
- Machinery & equipment	15	
- Buildings & other facilities	4	
- Non-physical capital assets	0.2	
4. Rentals paid		0.3
5. Interest & royalties		17
6. Sales tax		34
7. Other indirect business taxes		2
8. (-) Subsidies		-
9. Corporate income before tax		52
(*) incl. 15 apprentices		

TOTAL VALUE ADDED: 349

DESCRIPTION OF MAJOR PRODUCTS:

Serial production (series of 80 - 2,000 pieces per model); packed in cartons (1 - 40 pieces per carton). All dresses are easily washable.

Terms of delivery: depending on season, at the worst up to 6 months; standard models approx. 14 days.
 Delivery of summer collections: February to April, delivery of winter collections: August to October.

MARKET ASPECTS:

Consumers of products:

Ladies, especially between 25 - 35 years of age.

Sales organisation:

1 independent representative and 1 salaried travelling salesmen. Fashion shows in cities, customers are visited by mannequins. Sales office in the capital. Products are presented at approx. 6 domestic and foreign fairs per year.

Share in the domestic market:

10% of the market for ladies' dresses.

Export areas:

Western and Northern European countries, USA and Canada.

Export price policy:

The enterprise is capable of exporting its products at internationally competitive prices.

EXPORT:

Total annual export: US \$ 108,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Ladies' dresses	100%	-	-

Governmental policies:

The government subsidises exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)		Quantity consumed Unit	Quantity	% import	Average import value	Total consumption value 1000 US \$1	Total consumption value 1000 US \$1
1. Energy and water						8	
TOTAL:							
- Electricity	000 kWh	116		-	-	3	
- Fuel oil	t	86		-	-	3	
- Petrol	t	13		-	-	2	
2. Production materials							
TOTAL:							
- Woolen fabric	"	34,092					
- Artificial silk fabric	"	30,944					
- Cotton fabric	"	19,725					
- Synthetic fabric	"	30,109					
- Knitted fabric	"	4,962					
- Spun rayon fabric	"	24,773					
- Accessories	"	-					
						69	
3. Other materials & supplies							31
TOTAL:							
- Packaging material (cartons, plastic bags)							4
- Parts, supplies & services							21
- Other materials & supplies							6
4. Business services purchased							57
TOTAL:							
- Transportation, storage & insurance							5
- Communication, advertising & other business services							48
5. Work performed by subcontractors							2
TOTAL:							
TOTAL VALUE OF CONSUMPTION:						450	

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (8.1)

	Number	Original Purchase Value US \$ 00	Replace- ment value US \$ 00	Av. Age years	Av. Prod. Rate	Source of Purchase method	Co. Oriented	Ex- -Prod. -Suppli- er country	Year of instal- lation	Daily running time	Capacity output
Pattern cutting machine	1	0.1	0.1	-	-						
Perforating machine	1	0.3	0.4	8	-						
Trimming machines	2	0.3	0.4	2	-						
Round knife machines	6	1	1	4	-						
Band knife machine	1	1	1	6	-						
Folding carriage	1	2	2	4	-						
Unrolling device	1	0.4	0.4	4	-						
Cloth folding and cutting equipment	2	1	1	4	-						
Pixing press	1	2	3	2	-						
Numbering machine	1	0.3	0.4	2	-						
High speed sewing machines	60	23	30	6	partly SH	UK, 1967, 1968	9 "				
Button breaker	4	5	6	5	partly SH	Germany, F.R. 1967, 1961,	6 "				
Button stitcher	1	1	1	13	-						
Blind stitch machines	4	4	4	5	-						
Zig zag sewing machines	3	2	2	4	partly SH	Italy, 1966	up to 9 hrs				
Oversaw machines	7	3	4	6	-	Germany, F.R.					
Saddler stich machine	1	1	1	4	-						
Folding machine	1	1	1	4	-						
Zip fastener sewing machines	2	1	2	10	partly SH						
Long arm sewing machine	1	1	1	4	-						
Other special machines	6	5	7	6	-						
Universal finishing press	1	1	1	5	-						
Cloth moulding machine	1	1	5	3	-						
Universal ironing tables	8	4	5	4	-						
Steam iron	8	1	1	..	-						
Other machines	..	23	30	..	-						

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Method	Automation	C. modern standard		Automation	E. unautomated
				A. more advanced	B. considerably high standard		
Pattern making department	Drawing - cutting - enlarging - interpolating (to make all sizes equal)	B	III				
Cutting department	Layer drawing - numbering of pieces - adjusting and bundling	B	III				
Sewing department	Combination of single and group production	B	III			Output: 400 pcs/day	
Ironing department	Ironing - labelling	B	III			Output: 400 pcs/day	

CAPACITY UTILIZATION:

Full-capacity output: US \$ 1,160,000.

Current utilization: 1-shift operation

Major products (in process)	Approximate %							
	up to 20	20	20	20	20	20	20	20
Pattern making department	x							
Cutting department	x							
Sewing department	x							
Ironing department	x							

Due to lack of skilled operatives company could not utilize its entire capacity.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output US \$ 00	No. of persons employed	Total exports US \$ 00
1963	480	118	5
1964	580	120	10
1965	640	133	50
1966	670	140	90
1967	820	140	110
1968	970	124	120

2. Investments in the past:

Approximate amount US \$ 00	Type of investment
From 1956 to 1966: 100	Buildings
" 1959 " 1966: 50	Equipment
in 1967: 90	Machinery and transportation facilities

3. Future Plan:

From 1969 to 1974: .. (*) Rationalization and specialization of machinery, equipment and product-mix.

(*) Amount depends on growth of exports.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; these same groups are included in the underlined figures.

(1964)

Industry Manufacturing of wearing apparel except footwear (ISIC-Code: 243)

1. Size groups by number of persons employed	No. of estab.	No. of empl.	Ave. W. & S. per pers. US \$ 00	Ave. gross prod. val/ per pers. US \$ 00	Ave. value added/gross prod. ratio (%)
up to 19	12,978	22,902	771	3,816	53
20 - 99	439	18,646	1,171	5,220	47
100 - 499	105	21,412	1,263	5,958	44
500 - 999	2	C	C	C	C
over 1,000	1	C	C	C	C
TOTAL:	13,525	62,960	1,057	4,960	47

2. Size groups by annual value of production	No. of estab.	No. of empl.	Ave. W. & S. per pers. US \$ 00	Ave. gross prod. val/ per pers. US \$ 00	Ave. value added/gross prod. ratio (%)
up to 20	12,016	14,715	807	2,085	50
20 - 40	585	4,599	935	3,480	56
40 - 200	622	11,769	1,081	4,483	50
200 - 400	130	6,369	1,192	5,473	46
400 - 2,000	157	18,326	1,269	6,464	43
over 2,000	15	7,182	1,356	6,692	41
TOTAL:	13,525	62,960	1,057	4,960	47

Major Products: Woollen and synthetic yarns. Full capacity output amounts to US \$ 2.7 million or 650 - 700 t of yarns based on 2-shift operation. In 1967 the company produced about 520 t of yarns.

Reporting Unit: A one-establishment enterprise, privately owned, founded about 1900. Due to continuous investments the spinning mill could be kept on a normal technical level of operation. 250 employees.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Avg. age (Yrs.)
1 Primary process equipment (including installation cost)			
TOTAL	1,293	~ 1,730	10
- Process equipment	1,281	~ 1,730	10
- Hand tools & apparatuses	12	..	10
2 Buildings	625	1,064	32
- Primary industrial buildings (total floor spaces: 20,904 m ²)	434	677	25
- Auxiliary buildings	65	155	25
- Warehouses	38	77	10
- Office administration buildings	12	39	50
- Housing	76	116	50
3 Auxiliary facilities (excl. buildings)	148	193	25
- Internal power equipment	117	..	25
- Laboratory facilities	5	..	6
- Means of transportation	4	..	6
- Office equipment	22	..	30
TOTAL PHYSICAL FIXED ASSETS (excluding land)	2,066	~ 2,997	
4 Other fixed capital assets			
TOTAL	24	97	
- Land (total acreage: 50,202 m ²)	14	98	-
- Land improvements (1. acr. 26,464 ")	10	99	-
- Others	-	-	-

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	up to 100 US\$	100- 160 US\$	140- 240 US\$	160- 240 US\$	240- 560 US\$	over 560 US\$
1. Local non-operatives						
- Managers	-	-	-	-	2	-
- Engineers	-	-	-	-	-	-
- Technicians	-	-	-	2	1	-
- Accountants	-	1	-	-	-	-
- Sales officers	-	-	1	-	-	-
- Clerks and typists	-	2	-	5	1	-
- Others	-	-	-	1	-	-
2. Local operatives						
- Supervisors	-	-	-	-	1	-
- Foremen	-	6	1	9	1	-
- Skilled operatives	-	1	-	-	-	-
- Machine operators	6	154	11	4	-	-
- Craftsmen	-	1	11	4	-	-
- Truck drivers	-	2	1	-	-	-
- Unskilled operatives	1	15	-	1	-	-
(*)- Other full-time operatives	-	-	2	-	-	-
- Part-time operatives	-	-	-	-	-	-
(*) steam plant						
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	1	-	-	-
- Unskilled operatives	-	3	-	-	-	-

*No. details of process equipment and capacity of primary operative shops are given on Page Three (Section VIII).

EXTERNAL CONDITIONS

Transport	external long distance	insignificant
	internal long distance	"
	local and city	"

Utilities	electricity	excellent
	water	"
	gas	"

Community	residence	fair
	health and recreation	insignificant
	education	"

Own Welfare Facilities: Company subsidized lunch, payment in kind depending on period of employment.

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories	617	
TOTAL		
- Production materials	373	3
- Other input materials	61	4
- Work-in-process	12	1
- Finished products	171	1

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	8	8	hours
Actual hours/year	1,964	..	..	hours
Actual days/year	228	..	..	days

IV. MANNING TABLE

(number of persons)

Skill categories: A. Supervisory staff and foremen (for all shifts)
B. Skilled operatives
C. Semi-skilled operatives (machine operators)
D. Unskilled operatives

(As per 31/12/1967)

ALL SHOPS & UNITS:	Total	A	B	C	D	2nd Shift	3rd Shift
		23	23	159	66	6	6
1 Primary operative shops	194	9	5	114	3	57	6
Spinning dept. (Carded yarn)	10	-	1	8	-	1	-
Spinning dept. (Korseted yarn)	97	4	1	35	3	39	5
Twisting dept. (Worsted yarn)	16	-	1	8	-	7	-
Converter	3	-	-	1	-	1	-
Weaving dept.	21	2	1	9	-	9	-
Sewing dept.	35	1	-	34	-	-	-
Dyeing dept.	19	2	1	16	-	-	-
Finishing dept.	3	-	-	3	-	-	-
2 Auxiliary operative units	47	2	-	36	9	-	-
- Repair & maintenance	21	-	-	15	6	-	-
- Mechanical shop	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-
- Utilities control	6	-	-	6	-	-	-
- Product & material storage	7	1	-	5	1	-	-
- Off-site transport	3	1	-	2	-	-	-
- Guards, cleaners, etc.	8	-	-	7	1	-	-
- Others	2	-	-	1	1	-	-
3 Auxiliary non-operative units	13	12	-	1	-	-	-
- Production management	3	3	-	-	-	-	-
- Research & development	-	-	-	-	-	-	-
- Sales unit	2	2	-	-	-	-	-
- Accounting	6	6	-	-	-	-	-
- General administration	2	1	-	1	-	-	-

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service	
1. Engineering study	5. Technical and managerial personnel
2. Financial assistance	6. Industrial marketing
3. Technical services	7. Technical consultancy
4. Equipment supply, construction & maintenance	8. Import and export information
	9. Administration of foreign labor

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of projects
3				Know-how contracts could be supplied for planning, designing, cutting and manufacturing of dresses and costumes.
5				Some personnel could be provided.
6				In-plant training of severs would be possible.
7				Technical consultancy could be provided if demanded.

XII. SUPPLEMENTS & NOTES

Contract and commission work:

Manufacture of ladies' dresses on commission basis amounted to US \$ 19,000.

On the other hand, subcontractors plated material for the reporting enterprise to the amount of US \$ 2,000.

Depreciation policy:

The enterprise applies both the straight-line and the accelerated methods of depreciation.

Inventory policy:

Depending on the season, the value of finished products amounts as a maximum to 10% of total value of production.

History of investment:

Construction and production of the factory was started in 1956. The break-even point was surpassed in the same year.

Major Products:

Wearing apparel. Current annual production of approximately 80,000 pieces of children's overcoats, work overalls, and other garments on one-shift operation.

Reporting Unit:

An independent one-establishment unit with approximate fixed capital assets of US \$ 300,000 and 136 employees, as of 1968. Founded in 1960. Present factory established in 1965.

I. FIXED CAPITAL ASSETS		Year of installation	Orig. purchase value 1968 US \$	Replacement value (*) 1968 US \$
(End of 1968)				
1. Primary process equipment				
TOTAL:		1965	121	121
- Process equipment			109	109
- Hand tools & apparatuses			12	12
- Cost of installation			-	-
2. Primary industrial building			160	160
TOTAL:			160	160
(total floor space: 2,500 m ²)			160	160
3. Auxiliary facilities			10	9.5
TOTAL:			10	9.5
- Water, steam, electricity, cooling & storing			-	-
- Transportation facilities			4.5	3.5
- Administrative facilities			5.5	6
- Laboratory facilities			-	-
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):			290	290.5
4. Other fixed capital assets			10	15
TOTAL:			10	15
- Land (total acreage: 6,000 m ²)			10	15

DETAIL OF PROCESS EQUIPMENT (in):		Supplier country	Year of installation	Orig. purchase value 1968 US \$	Replacement value (*) 1968 US \$
Special sewing machines	15	Italy	1966	20	20
Heavy duty presses	10	Germany, F.R.	1966	21	21
Specialised cutting machines	6	Germany, F.R.	1966	3	3
Ordinary sewing machines	43	UK, Germany, F.R.	1963	15	15
General equipment including .. hand tools, cutting tables, shelves, other installations, etc.	..		1964	50	50

(*) Replacement value:

Indicates the approximate valuation (by the plant manager) for the replacement of a given facility, taking into account its current functional status, i.e. obsolete or old machinery will thus be cheap to "replace".

II. INVENTORIES AND WORKING CAPITAL

In 1000 US \$

(End of 1968)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL:	147	TOTAL:	176
- Production materials	105	- Cash (hand/bank)	130
- Other input materials	24	- Market, sec. & bonds	-
- Work-in-process	18	- Short-term investment	-
- Finished products	-	- Prepaid expenses	-
		- Accounts receivable	46

3. Desired working capital

Number of months	Value
TOTAL:	165
- Production materials	3 } 105 (*)
- Other input materials	3 }
- Finished products	3 }
- Wages & salaries	3 60
- Other special items	- -

(*) Incl. work-in-process.

III. MANNING TABLE

Number of persons

(1968 average)		4 - Auxiliary operative	
		1st shift	2nd shift
Total	A	B	A + B
ALL SHOPS & UNITS:	136	136	- -
1. Primary operative shops	124	60	64
- Cutting	10	5	5
- Sewing	94	43	51
- Pressing	15	7	8
- Supervisory staff and foremen (for the above shops)	5	5	- -
2. Auxiliary operative units	6	6	- -
- Repair and maintenance	1	1	-
- Mechanical shop	-	-	-
- Utilities control	1	1	-
- Product & material storage	3	3	-
- Off-site transport	1	1	-
- Guards, cleaners, etc.	-	-	-
3. Auxiliary non-operative units	6	6	- -
- Production management	1	1	-
- Research & development	-	-	-
- Sales unit	1	1	-
- General administration	1	1	-
- Accounting	3	3	-

WORKING TIME PER OPERATIVE WORKER:

- Normal hour/day: 8 hours - Normal days/year: 265 days
 - Actual hour/year: 1,950 hours - (including 50 half-days - Saturdays)

CAPACITY OF OPERATIVE SHOPS:

- Productive cycle is fairly balanced with all shops functioning at about 60% of capacity.

- Basis for capacity calculations is one-shift operation.

- Improved articulation of existing resources would lead to a good 25% increase in efficiency as judged by the average work time per finished coat. At present this equals 5 hours as opposed to an easily obtainable "average efficiency" production of 3 - 3 1/2 hours for similarly capitalized enterprises.

CAPACITY POWER:	Generating equipment:
Process equipment: No date available.	
- Electric motors: kW	- kVA

EXTERNAL CONDITIONS:	
Transport:	Local, regional, national; fair.
Utilities:	Electricity and water; fair.
Community:	Housing and public health; fair. Schools: excellent. Recreation facilities: poor.

IV. ANNUAL PRODUCTION

(1968) Products (or group of products)	Vt. of Prod.	Quantity produced	Normal output	Unit price in factory US \$	Total production value US \$
	Unit	Output			
Overcoats	1960	piece	60,000	75,000	9.50
Coveralls	1968	piece	1,500	10,000	4.60
Miscellaneous garments (including pants and jackets)	1960	piece	8,000	30,000	8.00
					64
				TOTAL PRODUCTION VALUE	641

VI. VALUE ADDED

(1968)	Value (US \$)
1. Wages & salaries	
- Employees in direct production (130 persons)	101
- Other employees (6 persons)	16
2. Other payments for employees	81
3. Annual depreciation	19
4. Rentals paid	-
5. Interest & royalties	2
6. Sales tax	-
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate incomes before tax (*)	32

(*) See note under IV.

251

Note: Corporate income: This is an aggregate figure which has been derived as a residual and should be interpreted as including certain other categories of expenses as well as profits.

V. ANNUAL CONSUMPTION

(1968)	Quantity consumed			Total consumption value US \$	
	Unit	Purchase	% imported	Unit price	US \$
1. Energy and water TOTAL:					5
- Electricity	000 Kwh	50	-	0.042	2.1
- Fuels	t	70	-	33	2.3
- Water	..	..	-	..	0.2
2. Production materials TOTAL:					308
- "Wool blend" fabrics	000 m	100	-	2.1	210
- Lining materials	000 m	60	-	0.8	48
- Accessories	..	..	-	..	50

VII. MONTHLY EARNING RATES

No. of per. empl.	Average earning rate (monthly) US \$
(End of 1968)	
1. Local non-operatives TOTAL:	6
- Managers	1 500
- Engineers	- -
- Technicians	- -
- Accountants	1 200
- Sales officers	1 200
- Other professional staff	- -
- Clerks & typists	1 70
- Executive assistants	2 120
2. Local operatives TOTAL:	130
- Supervisors	- -
- Foremen	5 120
- Machine operators	64 60
- Craftsmen	- -
- Truck drivers	1 100
- Other full-time operatives	55 60
- Unskilled operatives	3 60
- Others	2 100
3. Foreign employees TOTAL:	- -

Total consumption value US \$	
16	
3. Other materials & supplies TOTAL:	
- Packaging	5
- Repair & maintenance	2
- Non-factor service inputs	9
4. Business services purchased TOTAL:	61
- Sales service at average rate of 6% of sales	38
- Transport, communication, insurance, etc.	23
5. Work performed by sub-contractors TOTAL:	-
	390

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1961)
Industry group: Manufacture of wearing apparel, except footwear (ISIC: 243)

1. Size groups by number of persons employed:	No. of estab.	No. of estab.	Total labour	Gross prod. value	Fixed invest- ment
up to 99	118,459	74	105	1,123	30
100 - 499	226	208	388	362	90
500 - 999	14	640	1,120	1,300	138
1,000 - 4,999	4	2,160	4,550	5,800	16,300
National Average (total)	118,703	278	465	573	44.5

2. Size groups by number of persons employed:	No. of estab.	No. of estab.	Total labour	Gross prod. value	Fixed invest- ment
up to 99	118,459	74	936	1,123	24
100 - 499	226	208	967	1,166	75
500 - 999	14	640	1,097	1,363	135
1,000 - 4,999	4	2,160	1,310	1,684	176
National Average (total)	118,703	278	1,070	1,313	107

IX. SUPPLEMENTS

(a) Recent production history:

	1960	1964	1965	1966	1967
Total output (000 US \$)	9	230	320	450	640
Total number of persons	7	60	70	70	90
Output value p.worker (US \$)	1,300	3,800	4,600	6,400	7,100

(*) 1968 1969 (*)

Total output (000 US \$)	720	880
Total number of persons	130	140

(*) Estimates

Output value p.worker (US \$)	5,500	6,300
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(b) Desired structural relations of costs (**)

	Goal (**)	Actual (***)
Materials	40.5%	54%
Labour	20.9%	26%
Selling costs	14.0%	8%
Administrative costs	4.6%	4%
Depreciation	3.7%	3%
Other costs	4.7%	-
Profits	11.4%	5%
	100.0%	100.0%

(**) As suggested by Government Technical Agency for this particular plant.

(***) As called from this report.

Major Products: Wearing apparel. Current annual production of about 25,000 pieces of coats, jackets, suits, and pants based on one-shift operation.

Reporting Unit: An independent one-establishment unit with fixed capital assets valued currently at about US \$ 100,000 and 48 employees, as of 1968. Founded in 1948. Business year: 1 March 1967 - 28 February 1968.

I. FIXED CAPITAL ASSETS			II. INVENTORIES AND WORKING CAPITAL				
			(in '000 US \$)				
(End of February 1968)							
	Average age	Orig. purchase value ('000 US \$)	Replacement value (*) ('000 US \$)				
1 Primary process equipment							
TOTAL		21	19				
- Process equipment	5	15	15				
- Hand tools & apparatuses	10	6	4				
- Cost of installation	-	-	-				
2 Primary industrial building		24	56				
TOTAL		24	56				
(total floor space: 6,000 m ²)							
3 Auxiliary facilities							
TOTAL		..	..		
- Water, steam, electricity, cooling & storing		..	..		
- Transportation facilities		21	9				
- Administrative facilities			included in (2)				
- Laboratory facilities		-	-				
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excluding land)		66	84				
4. Other fixed capital assets		8	16				
TOTAL		8	16				
- Land (total acreage: 1,300 m ²)							
DETAIL OF PROCESS EQUIPMENT (no.):	Supplier country	Year of installation	Orig. purchase value ('000 US \$)	Replacement value (*) ('000 US \$)			
Special sewing machines	8 Germany, F.R.	1965/66	6.4	6.4			
Ordinary sewing machines	15 Italy	1963/64	3.6	3.6			
Heavy-duty pressing machines	2 Germany, F.R.	1967	3.7	3.9			
Small cutting machines	2 Germany, F.R.	1964	1.1	1.1			
(*) <u>replacement value</u> : indicates the approximate valuation by the plant manager for the replacement of a given facility, taking into account its current functional status, i.e. obsolete or old machinery will thus be cheap to "replace".							
III. MANNING TABLE (number of persons)							
			1st shift	2nd shift	3rd shift		
		(1967/68 average)	Total	A	B		
ALL SHOPS & UNITS:			48	25	16		
1. Primary operative shops			41	25	16		
- Cutting			6	1	5		
- Sewing			20	20	-		
- Pressing			2	2	-		
- Miscellaneous hand work			11	-	11		
- Supervisory staff and foremen (for the above units)			2	2	-		
2. Auxiliary operative units			2	2	-		
- Repair and maintenance			-	-	-		
- Mechanical shop			-	-	-		
- Utilities control			-	-	-		
- Product & material storage			2	2	-		
- Off-site transport			-	-	-		
- Guards, cleaners, etc.			-	-	-		
3. Auxiliary non-operative units			5	5	-		
- Production management			1	1	-		
- Research & development			1	1	-		
- Sales unit			3	3	-		
- General administration			-	-	-		
- Accounting			-	-	-		
WORKING TIME PER OPERATIVE WORKER:							
- Normal hours/day:		8.5	hours	Normal days/year:	240 days		
- Actual hours/year:		1,860	hours	(Saturdays are half-days)			
CAPACITY OF OPERATIVE SHOPS:							
Organisation of the firm as a whole as well as the several operative shops, is so loose that it is difficult to make any meaningful quantitative observation concerning capacity. The following observations should prove helpful in this regard:							
(i) all machinery is active at least 90% of actual working time;							
(ii) there is no indication of any attempt on the part of the management to think in terms of either explicit capacity criteria or rational flows of materials, etc. within existing plant. (See part IV. for detailed treatment of this concept).							
CAPACITY POWER:		Generating equipment: Installed capacity: - kVA					
Process equipment: Electric motor: 0.7 kW							
EXTERNAL CONDITIONS:							
Transport:	quite satisfactory.						
Utilities:	electricity is cheap, water scarce and expensive.						
Community:	residential and recreational, poor; health and educational, excellent.						

IV. ANNUAL PRODUCTION

(1967)	Yr. of first prod.	Quantity produced		Nominal capacity output	Unit price at factory (MUS \$)	Total production value (1000 US \$)
Products for group of products		Unit	Output			
Men's overcoats	1948	000 pcs	5	..	16	80
Boys' overcoats	1948	" "	2	..	10	20
Men's suits	1949	" "	2.5	..	16	40
Woman's overcoats	1961	" "	5	..	16	80
Men's jackets	1960	" "	1.5	..	10	15
Men's pants	1960	" "	1	..	4	4
Girls' overcoats	1960	" "	2	..	10	20
Woman's suits	1960	" "	1.5	..	13	20
Boys' suits	1960	" "	0.5	..	10	5
Other non-specified articles	1956	" "	1.5	..	varies	63
						TOTAL PRODUCTION VALUE
						347

V. ANNUAL CONSUMPTION

(1967)		Quantity consumed	Unit	Unit price (US \$)	Total consumption value (1000 US \$)
		Unit	Purchase	% Imported	
1. Energy and water					
TOTAL:					2
- Electricity	000 Kwh	..	-	0.052	1
- Water		..	-	..	1
2. Production materials					
TOTAL					135
- Wool and wool-blend fabrics	000 m	45	-	2.10	95
- Lining materials	000 m	25	-	0.77	19
- Accessories (buttons, thread, etc.)	..	..	-	..	21

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1961) Manufacture of wearing apparel,
Industry group: except footwear (ISIC: 243)

1. Size groups by number of persons employed:	No. of estab.	No. of emp.	Total payments	Gross prod. added value	Fixed investment
up to 99	118,459	74	105	134	320
100 - 499	226	208	328	382	940
500 - 999	14	640	1,120	1,300	5,180
1,000 - 4,999	4	2,160	4,550	5,200	16,300
National average (total)	118,703	278	465	573	44.5

Average per employee (in US \$)

2. Size groups by number of persons employed:	No. of estab.	No. of emp.	Total payments	Gross prod. added value	Fixed investment
up to 99	118,459	74	936	1,123	24
100 - 499	226	208	964	1,146	75
500 - 999	14	640	1,097	1,363	135
1,000 - 4,999	4	2,160	1,310	1,684	178
National average (total)	118,703	278	1,070	1,313	107

VI. VALUE ADDED

(1967)	Value 1000 US \$
1. Wages & salaries	
- Employees in direct production (43 persons)	72
- Other employees (5 persons)	20
2. Other payments for employees	24
3. Annual depreciation	1
4. Rentals paid	-
5. Interest & royalties	2
6. Sales tax	-
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax (*)	72
(*) See IX. Supplements.	198

VII. MONTHLY EARNING RATES

(End of February 1968)	No. of per. empl.	Average earning rate (monthly) MUS \$
1. Local non-operatives		
TOTAL:	5	Min. Max.
- Managers	1	more than 240
- Engineers	-	-
- Technicians	-	-
- Accountants	2	160 - 240
- Sales officers	1	160 - 240
- Other professional staff	-	-
- Clerks & typists	1	80 - 160
2. Local operatives		
TOTAL:	43	Min. Max.
- Supervisors	-	-
- Foremen	2	160 - 240
- Machine operators	20	80 - 160
- Craftsmen	6	80 - 160
- Truck drivers	-	-
- Other full-time operatives	15	less than 80
- Unskilled & part-time operatives	-	-
3. Foreign employees		
TOTAL:	-	-

3. Other materials & supplies	Total consumption value 1000 US \$
TOTAL:	4
- Packaging	2
- Repair & maintenance	1
- Non-factor services inputs	1
4. Business services purchased	
TOTAL:	5
- Transport, storage & insurance	6
- Communication, advertisements, etc.	2
5. Work performed by sub-contractors	
TOTAL:	142

IX. SUPPLEMENTS

(a) Recent productive history:

	1948	1960	1965	1966	1967	1968
Total output (000 US \$)	160	240	270	315	320	350
Total employees	20	30	35	40	45	48
Output per employee (US \$)	8,000	8,000	7,800	7,650	7,100	7,300

(b) Suggested structural relations of costs for firm on basis of current development programme:

Cost element	Per cent total costs
Materials	37.7
Labour	29.7
Selling costs	13.7
Administrative costs	6.7
Depreciation	3.5
Other costs	1.8
	93.8
Profits	6.2
	100

ad VI. VALUE ADDED - Item 9.: Corporate income: This is an aggregate figure which has been derived as a residual and should be interpreted as including certain other categories of expenses as well as profits.

Major Products: Wearing apparel. Current annual production of about 100,000 pieces of coats, jackets, suits, and pants based on a one-shift operation.

Reporting Unit: An independent one-establishment enterprise with fixed capital assets volume currently at about US \$ 400,000 and 131 employees, as of 1968. Founded in 1952.

I. FIXED CAPITAL ASSETS			
(End of 1967)	Average age	Orig. purchase value 1000 US \$	Replacement value (*) 1000 US \$
1. Primary process equipment			
TOTAL	8 years	30	30
- Process equipment		28	(*)
- Hand tools & apparatus		2	(*)
- Cost of installation		-	-
2. Primary industrial building			
TOTAL		240	300
(total floor space: 1,842 m ²)		240	300
3. Auxiliary facilities			
TOTAL		100	100 (*)
- Water, steam, electricity, cooling & storing		65	(*)
- Transportation facilities		17	(*)
- Administrative facilities		10	(*)
- Laboratory facilities		8	(*)
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land)		370	430
4. Other fixed capital assets			
TOTAL		10	50
- Land (total area: 2,500 m ²)		10	50
DETAIL OF PROCESS EQUIPMENT:	Number	Average age	Orig. purchase value (US \$)
Zig-Zag sewing machines average price: US \$ 560,-	2	8 years	1,120
Button-hole machines	2	8 years	5,100
Button-attaching machine	1	8 years	550
Sample cutting machine	1	8 years	90
Ribbon cutter	1	8 years	400
Special sewing machines (invisible point)	2	8 years	2,900
Cutting machines	4	8 years	2,200
Special cutting machine	1	8 years	120
Hemming machines	2	8 years	360
Special sewing-finishing machine	1	8 years	720
Hooping machine	1		40
Standard industrial sewing machines of various makes, average price: US \$ 280,-	37		10,400
Cutting benches, etc.	..		4,000

(*) The management estimates that the current replacement value is roughly equal to original price of this well-maintained equipment.

CAPACITY POWER: No data available.	Generating equipment: Installed capacity: - kVA
Process equipment: - Electric motors: kW	

EXTERNAL CONDITIONS:	
Transport:	generally satisfactory.
Utilities:	adequate.
Community:	housing: fair/good; educational system: good

II. INVENTORIES AND WORKING CAPITAL (in 1000 US \$)

(End of 1967)

1. Inventories	Amt. value	2. Liquid assets	Amt. value
TOTAL:	800	TOTAL:	117
- Production materials	260	- Cash (hand/bank)	77
- Other input materials	90	- Market. sec. & bonds	-
- Work-in-process	450	- Short-term investment	-
- Finished products	450	- Prepaid expenses	-
		- Accounts receivable	40

3. Desired working capital	Number of months	Value
TOTAL:	Not available	

III. MANNING TABLE (number of persons)

(1967 average)		Total	1st shift	2nd shift	3rd shift
		Total	A	B	A+B
ALL SHOPS & UNITS:		131	131	-	-
1. Primary operative shops		116	116	-	-
- Cutting		14	14	-	-
- Sewing		60	60	-	-
- Pressing		5	5	-	-
- Other operations including band sewing, etc.		32	32	-	-
- Supervisory staff for the above units		5	5	-	-
2. Auxiliary operative units		10	10	-	-
- Repair and maintenance		1	1	-	-
- Mechanical shop		-	-	-	-
- Utilities control		-	-	-	-
- Product & material storage		2	2	-	-
- Off-site transport		1	1	-	-
- Guards, cleaners, etc.		-	-	-	-
- Others		6	6	-	-
3. Auxiliary non-operative units		5	5	-	-
- Production management		1	1	-	-
- Research & development		-	-	-	-
- Sales unit		1	1	-	-
- General administration		1	1	-	-
- Accounting		2	2	-	-

WORKING TIME PER OPERATIVE WORKER:

- Normal hours/day: 8.3 hours - Normal days/year: 265 days
- Avr. hours/year: 2,080 hours (Saturdays are half-days).

CAPACITY OF OPERATIVE SHOPS:

Given the loose structure of production of an establishment at this stage of productive evolution, it is extremely hazardous to attempt to assign precise quantitative indicators of capacity as such. The following sort of "capacity observation" does seem reasonable, however: on the basis of a one-shift operation, existing capital stock, labour force, and organisation, overall output is fairly close to capacity, i.e. in the neighbourhood of 80-90%. The "operative shop" function with sufficient flexibility so that no "stage" bottleneck can be identified as such, at least at the current level of production.

IV. ANNUAL PRODUCTION

(1967)	Quantity produced	Normal capacity output	Unit price ex factory (M\$ S)	Total production value (M\$ US \$)
Products (or group of products)	Yrs. of first prod.	Unit	Output	
Women's suits			1,385	14.50 20
Boys' suits (short pants)			5,200	12.00 62
Boys' suits (long pants)			1,842	17.00 31
Men's suits			9,583	24.00 230
Boys' suits (shorts)			245	14.60 4
Men's and boys' pants	1957	piece	6,061	4.50 27
Men's and boys' jackets			3,987	11.00 44
Men's overcoats			7,248	15.70 114
Men's short overcoats			480	14.00 7
Women's overcoats			3,879	21.00 123

VI. VALUE ADDED

	Value KRSB US \$
(1967)	
1. Wages & salaries	
- Employees in direct production	99
(126 persons)	
- Other employees	7
(5 persons)	
2. Other payments for employees	47
3. Annual depreciation	6
4. Rentals paid	-
5. Interest & royalties	5
6. Sales tax	-
7. Other ind. inv. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax (*)	176

V. ANIMAL CONSUMPTION

(1987)	Quantity consumed		Imported	Tariff rate	Consumption value (\$000 US \$)
	Unit	Purchase			
1. Energy and water					
TOTAL:					2
- Electricity and fuels	000 KWh	..	-	-	2

VII. MONTHLY EARNING RATES

	No. of emp.	Average operating costs (monthly)
(End of 1967)		
1. Local non-operatives		
TOTAL:	<u>5</u>	more than 160
- Managers	1	160
- Engineers	-	-
- Technicians	-	-
- Accountants	2	80 - 160
- Sales officers	1	more than 160
- Other professional staff	-	-
- Clerks & typists	1	less than 80
2. Local operatives		
TOTAL:	<u>126</u>	
- Supervisors	-	-
- Foremen	5	80 - 160
- Machine operators	60	less than 80
- Craftsmen	1	80 - 160
- Truck drivers	1	80 - 160
- Other full-time operatives	37	less than 80
- Unskilled & part-time operatives	-	-
- Others	20	less than 80
- Others	2	80 - 160
3. Foreign employees		
TOTAL:	<u>-</u>	-

2. Production materials

TOTAL	308
- Wool blend textiles	226
- Lining	46
- Accessories	36

10.000-15.000 €

	consumption value	value 1000 US \$
3. Other materials & supplies		
TOTAL:		11
- Packaging	8	
- Repair & maintenance	2	
- Non-factory services - import	1	

VIII. CHARACTERISTICS OF THE HIGH-SRMR IN THE SOUTHERN

(1961) Manufacture of wearing apparel,
except foot wear.

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VI. VALUE ADDED - Item 8:

Corporate income: This is an aggregate figure which has been derived as a residual and should be interpreted as including certain other categories of expenses as well as profits.

	1964	1965	1966	1967	1968
- Total output value (000 US \$)	520	440	500	610	720
- Number of employees	91	97	100	126	150
- Output per employee (US \$)	5,700	4,550	5,000	4,800	4,800

National average 118,793 278 665 573 1,600 44.5
 (Art.-1)

Average per employee (in US \$)

The administration has also indicated a net profit figure of US \$ 130,000 for 1967 which is not otherwise figured into the above accounts. The remaining differential of costs and receipts is US \$ 15,700 (less than 2 1/2 of the total) which can be divided



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V. ANNUAL PRODUCTION

(1967)	Vr. of fin. prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (000 US \$)
Yarns (Purs wool and polyester mixed)	..	t	517	..	1,963
Fabrics for men's wear	..	m	18,000	..	46
Revenue from contract and commission work	-	216
Marketable wastes	-	0.2
TOTAL VALUE OF PRODUCTION:					2,225

VI. VALUE ADDED

(1967)	Total value (000 US \$)	
1. Annual wages & salaries - Operative workers (212 persons)	367	
- Non-operative workers (23 persons)	69	
2. Other payments for employees	85	
3. Annual depreciation	90	
- Machinery & equipment	65	
- Buildings & other facilities	24	
- Non-physical capital assets	0.5	
4. Rentals paid	0.3	
5. Interest & royalties	97	
6. Sales tax	82	
7. Other indirect business taxes	15	
8. (-) Subsidies	-	
9. Corporate income before tax	6	
TOTAL VALUE ADDED:		742

DESCRIPTION OF MAJOR PRODUCTS:

Carded yarns and fabrics.

Woollen yarns, polyester/wool yarns, acrylic knitting yarns. Carded yarns and fabrics are of minor significance.

All products are exportable.

MARKET ASPECTS:

Consumers of products:

Yarns: Weaving and knitting mills

Fabrics: Manufacturers of clothes and textile wholesalers.

Sales organisation:

A sales organisation does not exist since almost 75% of the production is sold to one single weaving mill. The remaining 25% is more or less exported to COMECON-countries. These exports are based on medium-term contracts.

A very small portion of the output is sold to domestic weaving and knitting mills. The company only produces to order. Fulfilment usually takes some months.

Market and competition:

Due to the special type of product the number of customers is limited to the 10 largest weaving and knitting mills in the country. Almost equal price structure of domestic products. Imports sometimes a little cheaper. Slight differences in quality.

EXPORT:
Total annual export: US \$ 260,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Woollen yarns	-	100%	-

Export price policy:

Rather keen international competition. Prices of exported goods have to be reduced by sales tax refunds.

Since the company deals mainly with one very solvent customer, certain cost items such as extra charges for risk taking do not have to be considered.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity	Average import duties	Total consumption value (000 US \$)
1. Energy and water				
TOTAL:				52
- Electricity	000 kWh	1,422	-	32
- Gasoline	t	11	-	2
- Fuel oil	t	754	-	17
- Water	000 m³	130	-	1
2. Production materials				1,246
TOTAL:				
- Combed wool	t	548	95.5	-
- Polyester fibres				1,246

	Average import duties (000 US \$)	Total consumption value (000 US \$)
3. Other materials & supplies		127
TOTAL:		
- Packaging material (boxes)	5	
- Chemicals for dyeing and impregnation	73	
- Parts, supplies & services	0.4	47
- Other materials & supplies	2	
4. Business services purchased		52
TOTAL:		
- Transportation, storage & insurance	22	
- Communication, advertising & other business services	30	
5. Work performed by subcontractors		6
TOTAL:		
TOTAL VALUE OF CONSUMPTION:		1,483

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (I.1.):	Number	Original Purchase Value (1960 US \$)	Replace- ment value (1960 US \$)	Av. Age (yr)	Remarks	Remarks:	Supplier country	Year of instal-lation	Output	Shift/ operation
						Process equipment				
<u>Spinning department:</u>										
Wool spinning:						Ring spinning frames	FR.Germ.	1967	..	..
Crusher rollers, willows, blending	-	14	..	15	Ob					
Carding units	3	80	..	17	"					
Mule-spinning frames	3	23	..	17	"					
Worsted yarn spinning:						Super-intersecting gills	Italy	1964-66	..	..
Ring spinning frames	2	58	..	2	-					
Ring spinning frames	1	26	..	5	-					
Ring spinning frames	13	280	..	12	Ob	Converter	Italy	1963	25 t/ month	3 shifts
Super-intersecting gills	7	70	..	5	-					
Drawing frames	2	35	..	5	-					
Combers	12	46	..	8	-					
Pin drafting	7	43	..	14	Ob	Dyeing equipment	FR.Germ.	1964	1.5 t/ day	1 shift
Worsted card	1	17	..	10	"					
Converter	1	32	..	5	-					
Combing frames	10	16	..	10	SH					
Micro.machines for spinning dept.	..	43	..	10	Ob					
<u>Twisting department:</u>										
Twisting and pinn winding machines	15	89	..	10	Ob					
<u>Weaving department:</u>										
Looms	20	54	..	18	Ob					
<u>Dyeing department:</u>										
Dyeing and sonuring equipment	..	205	..	10	Ob					
<u>Finishing department:</u>										
Various finishing machines	..	133	..	10	Ob					
Others: Air-conditioning	..	33	..	10	Ob					
Lifting apparatuses, scales, elevators ..	..	63	..	..	Ob					

CAPACITY POWER:

Process equipment:

- electric motors ~700 kW

Generating equipment:

- installed capacity - kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Modem.	Autom.	C. moderate standard		Automation:	I. fully automated II. semi-automated III. un-automated
				A. most advanced	B. considerably, high standard		
Dyeing shop	Dyeing of flocks and of worsted flocks of wool before spinning	C	II			fully utilized	
Spinning dept.(worsted yarn)	Spinning of yarn	C	II			fully utilized	Production could be increased through night shift operation
Spinning dept.(carded yarn)	Flock of wool passes 3 carding units, before being processed in mule-spinning frame	D	III			fully utilized	
Preparation for weaving	Winding, twisting, warping	D	III			low utilization due to obsolescence of machinery	
Weaving dept.	Crossing of warps and wefts	D	III			Products of minor significance, commission work only	
Finishing shop	Pulling or washing, drying, trimming, pressing C decatizing, etc.	C	III			Utilisation depends on availability of labour	

CAPACITY UTILIZATION:

Full capacity output: US \$ 2,700,000. In order to reach this figure 20 additional operatives would have to be employed in the 1st and 2nd shift each.

Current utilization:

Major products (or processes)	Up to 30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Approximate %
Yarns (dyeing and spinning)	x								
Fabrics (weaving)	x								

Current capacity utilization is based on 2-shift operation except for the converter section which operates on 3 shifts. High utilization of spinning capacity is mainly due to good supply of raw materials and satisfactory demand for the products manufactured. The weaving department could only operate due to commission work received. Otherwise no more weaving would have been done.

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963

Total output (1960 US \$)	No. of persons employed	Total exports (1960 US \$)
2,530	407	300
2,520	381	300
2,380	327	60
2,070	241	220
2,250	235	280
-	-	-

2. Investments in the past:

Approximate amount (1960 US \$)	Type of investment
160	Replacement of machinery: Spinning frames, finishing machines
220	Dyeing and finishing machines
120	Dyeing machines
130	

3. Future Plan:

From 1968 to 1972:	Approximate amount (1960 US \$)	Description
80		Expansion and replacement of machinery and equipment. Purchase of new spinning frames. Employment of one additional operative and 5 additional auxiliary operatives on 1st and 2nd shift each.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1964)

Industry Spinning, weaving and finishing textiles (ISIC Code: 231)

1. Size groups by number of persons employed:	No. of establish.	No. of emplo.	Av. W. & S. per pers. (US \$)	Av. gross prod. val./per pers. (US \$)	Av. value added/gross prod. ratio (%)	2. Size groups by annual sales of production (1960 US \$):	No. of establish.	No. of emplo.	Av. W. & S. per pers. (US \$)	Av. gross prod. val./per pers. (US \$)	Av. value added/gross prod. ratio (%)
up to	19	223	9,66	1,108	46	up to	20	147	847	4,716	58
20 -	29	73	1,542	1,403	40	20 -	40	23	1,174	4,796	55
100 -	499	66	15,304	1,482	41	40 -	200	72	1,323	5,153	49
500 -	999	11	1,148	1,451	39	200 -	400	29	1,254	6,600	50
over 1,000	5	6,116	1,596	6,014	44	400 -	2,000	73	10,857	7,059	42
TOTAL:	378	17,364	1,490	6,865	41	over 2,000	34	23,631	1,569	6,912	40

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Engineering study	5. Technical and managerial personnel	8. Import and export promotion
2. Financial assistance	6. Industrial training	9. Administration of foreign labour
3. Industrial services	7. Technical consultancy	
4. Equipment supply, manufacture & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

8

Almost no chance to import industrial products manufactured in developing countries, since the raw materials required are either wool or well-known brands of synthetic fibres. So far wool has come from Australia and Uruguay and synthetic fibres from European producers. However, great interest is shown for export promotion.

9

Company reports interest to employ foreign operatives.

XII. SUPPLEMENTS & NOTES

History of production and investment:

Originally the company was founded as a weaving mill. In 1954 a spinning mill was added which today practically accounts for the total output. The break-even point could not be reached until 1966 with annual sales of US \$ 2.3 millions.

Depreciation policy:

The company could only apply the straight-line method and not the accelerated method since taxable profits were too low.

Contract and commission work:

The establishment performed commission work on yarns and fabrics for 20 different contractors. Total commission received amounted to US \$ 216,000.-.

On the other hand 5 subcontractors received a few orders to spin yarns and silver combings. Total commission paid approached US \$ 6,000. Work is based on short-term agreements.

Current problems:

Lack of personnel. This bottleneck could not yet be solved, despite growing employment of foreign labour since various other neighbouring industries offer higher wages.

Major Products: Linen yarns and linen threads; Weaving yarns, thread yarns, hose pipe yarns, shoe yarns and threads, wax machine threads. Capable of producing annually about 1,700 tons of linen yarns and threads. Full-capacity output amounts to US \$ 2.9 million based on 2-shift operation.

Reporting Unit: One-establishment enterprise, founded in 1952; although the company is rather old, the process equipment utilized is on the average not older than 12 years; 360 employees; privately owned; about 55% of the output is exported.

I. FIXED CAPITAL ASSETS

	(End of 1967)	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1 Primary process equipment (including installation cost)				
TOTAL	-	2,460	-	
- Process equipment *	-	2,353	-	12
- Hand tools & apparatuses	-	107	-	
2 Buildings	-	2,123	-	
TOTAL	-	326	-	50
- Primary industrial buildings (total floor space: 7,600 m ²)	-	140	-	50
- Auxiliary buildings	-	257	-	50
- Warehouses	-	126	-	
- Office administration buildings	-	1,174	-	60
- Housing	-	-	-	
3 Auxiliary facilities (excl. buildings)	-	971	-	
TOTAL	-	286	-	26
- Internal power equipment	-	286	-	
- Laboratory facilities	-	9	-	10
- Means of transportation	-	31	-	6
- Office equipment	-	47	-	15
- Other	-	121	-	
TOTAL PHYSICAL FIXED ASSETS (excluding land)		6,053		
4. Other fixed capital assets				
TOTAL	-	521	-	
- Land (total acreage: 0.01,400 m ²)	-	431	-	
- Land improvements (total: 0.01,248 m ²)	-	60	-	
- Others	-	-	-	

*No. Details of process equipment and capacity of primary operative shops are given on Page Three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	Excellent
	internal long distance	"
	local and city	Fair
Utilities:	electricity	Fair
	water	"
	gas	Inadequate
Community:	residence	Fair
health and recreation		Excellent
education		Insignificant
Own Welfare Facilities:	-	-

III INVENTORIES

	(End of 1967)	Actual value (1000 US \$)	Number of months
Inventories	458	-	
TOTAL	174	3	
- Production materials	174	3	
- Other input materials	43	3	
- Work-in-process	42	-	
- Finished products	299	1.7	

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	8	-	hours
Actual hours/year	1,840	1,840	-	hours
Actual days/year	230	230	-	days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

16. 90 100 100 140 160 240 over 560 US\$	100 140 160 240 -560 US\$	over 560 US\$
--	--	---------------------

1. Local non-operatives

- Managers	-	-	-	-	-	1
- Engineers	-	-	-	-	-	2
- Technicians	-	-	-	-	-	7
- Accountants	-	1	-	2	2	-
- Sales officers	1	-	1	4	4	-
- Clerks and typists	2	2	5	1	-	-
- Others	-	1	-	2	-	-

2. Local operatives

- Supervisors	-	-	-	-	-	-
- Foremen	-	13	-	-	-	-
- Skilled operatives	147	39	-	-	-	-
- Machine operators	-	-	-	-	-	-
- Craftsmen	3	18	5	-	-	-
- Truck drivers	-	2	-	-	-	-
- Unskilled operatives	28	3	-	-	-	-
- Other full-time operatives	34	8	-	-	-	-
- Part-time operatives	4	2	-	-	-	-

3. Foreign employees

- Managerial staff	-	-	-	-	-	1
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	3	-	-	-	-	-

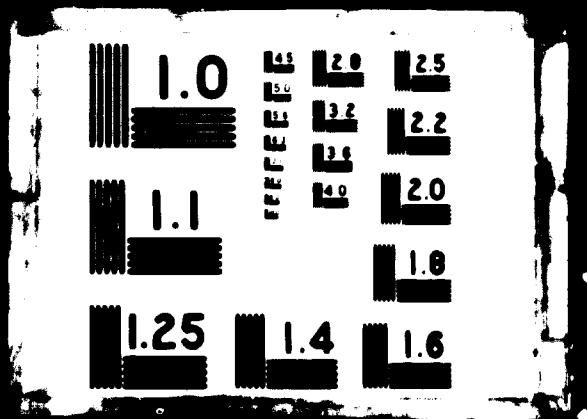
IV. MANNING TABLE

(Number of persons)

(1967 average)
Shift categories:
A. Supervisory staff and foremen (for all shifts)
B. Shifted operatives
C. Semi-shifted operatives (machine operators)
D. Unshifted operatives**ALL SHOPS & UNITS:**

Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
359	43	-	216	-	95	-	-
1. Primary operative shops	271	12	7	100	57	95	-
- Hackling	15	1	1	9	4	-	-
- Preparation of hanks	25	3	1	4	8	9	-
- Carding	45	1	1	21	5	17	-
- Fine spinning	90	3	2	30	23	32	-
- Winding	52	1	1	21	4	25	-
- Twisting	34	2	1	13	9	9	-
- Dyeing and bleaching	10	1	-	2	4	3	-
2. Auxiliary operative units	55	7	-	52	-	-	-
- Repair & maintenance	37	2	-	35	-	-	-
- Mechanical shop	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-
- Utilities control	4	1	-	3	-	-	-
- Product & material storage	5	2	-	3	-	-	-
- Off-site transport	3	-	-	3	-	-	-
- Guards, cleaners, etc.	10	2	-	8	-	-	-
3. Auxiliary non-operative units	29	29	-	-	-	-	-
- Production management	3	3	-	-	-	-	-
- Research & development	2	2	-	-	-	-	-
- Sales unit	10	10	-	-	-	-	-
- Accounting	6	6	-	-	-	-	-
- General administration	8	8	-	-	-	-	-

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III. DESIGNATED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Designated areas	
1. Engineering study	4. Technical and managerial assistance
2. Financial assistance	5. Import and export assistance
3. Technical services	6. Technical training
4. Equipment supply	7. Technical consultancy
	8. Admission of foreign technicians & engineers

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIESToolSupplyetc.

Field of activity

Description of project

A

The establishment is interested in importing leather and semi-finished products made out of leather.

B

Mobilisation of foreign labour possible.

III. SUPPLEMENTS & NOTESDepreciation policy:

The straight-line as well as accelerated methods of depreciation were applied.

Contract and companion work:

Shoe vamps manufactured by 2 subcontractors; work was based on short-term agreements. Commission paid: US \$ 1,500.

Recruitment:

Lack of skilled personnel.

Inventory policy:

The company produces only to order. Inventories of finished products are kept to a minimum. In the reporting year they amounted to 1% of the total value of production.

Major Products:

Men's, ladies', children's shoes, ski boots, slippers.
Presently company operates at full capacity and produces about 3.3 million pairs of shoes worth US \$ 17 million. One-shift operation. Business year: 1 March 1967 - 29 February 1968.

Reporting Unit:

A five-establishment enterprise; privately owned; founded in 1862. 2,575 employees; 4 establishments are manufacturing shoes, one in producing lasts. Largest enterprise in this line in the country; favourably located; company-conducted research activity; licensed production of French and Italian products; 10% export.

This study summarizes the whole enterprise.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original Purchase Value 1967 US \$	Repre- sentative Value 1967 US \$	Av- erage (%)
1. Primary process equipment (including installation cost)			
TOTAL	2,616	3,123	
- Process equipment *	2,085	3,123	8
- Hand tools & apparatuses	171		
2. Buildings	1,228	1,743	
TOTAL			
- Primary industrial buildings (total floor space: 36,748 m ²)	616	875	25
- Auxiliary buildings	90	126	25
- Warehouses	115	163	25
- Office administration buildings	279	397	25
- Housing	128	180	9
3. Auxiliary facilities (incl. buildings)	615	646	
TOTAL			
- Internal power equipment	-	-	-
- Laboratory facilities	19	27	7
- Means of transportation	152	155	3
- Office equipment	464	464	1
TOTAL PHYSICAL FIXED ASSETS (including land)	4,519	5,512	
4. Other fixed capital assets	1,989	2,677	
TOTAL			
- Land (total acreage: 43,767 m ²)	30	155	-
- Land improvements (t.s.e.r. 36,616 ")	29	155	-
- Others	1,930	2,367	8

H. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1967 monthly average)

	Up to 100 US \$	100 US \$	100 US \$	140 US \$	160 US \$	240 US \$	260 US \$
1. Lead non-operatives							
- Managers	-	-	-	-	-	-	6
- Engineers	-	-	-	-	-	-	-
- Technicians	8	19	21	61	12	-	-
- Accountants	7	21	3	12	2	1	-
- Sales officers	11	31	5	24	20	8	-
- Clerks and typists	32	51	14	44	16	1	-
2. Local operatives							
- Supervisors	-	-	-	-	-	-	-
- Foremen	-	-	14	7	-	-	-
- Skilled operatives }	125	846	207	276	4	-	-
- Machine operators	-	-	-	-	-	-	-
- Craftsmen	-	-	-	42	-	-	-
- Truck drivers	-	-	-	4	-	-	-
- Unskilled operatives	-	-	-	-	-	-	-
- Other full-time operatives	208	147	84	62	-	-	-
- Part-time operatives	6	12	-	-	-	-	-
3. Foreign employees							
- Managerial staff	-	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-	-
- Unskilled operatives	9	70	5	2	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport: external long distance excellent
internal long distance "
local and city "

Utilities: electricity excellent
water "
gas "

Community: residence fair
health and recreation "
education "

Own Welfare Facilities: Apartment buildings, cafeterias, cultural and sports facilities, welfare association

III. INVENTORIES

(End of 1967)

	Annual Value 1967 US \$	Number of months
Inventories	2,371	
TOTAL		
- Production materials	1,163	2
- Other input materials	31	1
- Work-in-process	323	1
- Finished products	844	1

WORKING TIME PER OPERATIVE WORKER:

	1st shift hrs	2nd (*) shift hrs	3rd (*) shift hrs	Total hours
- Shift hours/day	8.5	8	8	hours
- Actual hours/year	1,000	1,064	1,064	hours
- Actual days/year	221	221	221	days

(*) 2 operations of the ski-boot factory.

IV. EMPLOYMENT TABLE

Number of persons

	Total	A	B	C	D	1st shift hrs	2nd shift hrs
(As per 8 November 1968)							
1. Primary operative shops	1,985	112				1,869	2
- Men's shoe factory	369	21	348	-	-	-	-
- Ladies' shoe factory	531	34	497	-	-	-	-
- Ski boot factory	232	10	216	2	2	-	-
- Children's shoe factory	405	20	389	-	-	-	-
- Slipper factory	381	22	399	-	-	-	-
- Stamping department	67	5	62	-	-	-	-
2. Auxiliary operative units	286	65				217	-
- Repair & maintenance	58	14	44	-	-	-	-
- Mechanical shop	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-
- Utilities control	15	6	9	-	-	-	-
- Product & material storage	111	29	82	-	-	-	-
- Off-site transport	5	3	2	-	-	-	-
- Guards, cleaners, etc.	28	5	23	-	-	-	-
- Others	65	8	57	-	-	-	-
3. Auxiliary non-operative units	308	295				13	-
- Production management	13	13	-	-	-	-	-
- Research & development	4	2	2	-	-	-	-
- Sales unit	115	110	5	-	-	-	-
- Accounting	48	48	-	-	-	-	-
- General administration	128	122	6	-	-	-	-

V. ANNUAL PRODUCTION

(1967)

Picture for group of products

	W. of Ref. prod.	Quantity produced Unit " "	Avg. unit price on factory gate US\$ \$	Total output value US\$ US \$
Men's shoes	..	pairs 465,500	7.2	3,333
Ladies' shoes	..	" 935,100	6.6	6,153
Ski boots	..	" 104,500	18.0	1,880
Children's shoes	..	" 457,400	5.4	2,478
Slippers	..	" 1,290,700	2.5	3,247
TOTAL VALUE OF PRODUCTION:			17,091	

VI. VALUE ADDED

(1967)

	Total value US\$ US \$
1. Annual wages & salaries	
- Operative workers (1,873 persons)	2,436
- Non-operative workers (1,466 persons)	966
2. Other payments for employees	
3. Annual depreciation	
- Machinery & equipment, cars	401
- Buildings & other facilities	60
- Non-physical capital assets	270
4. Rents paid	97
5. Interest & royalties	148
6. Sales tax (*)	705
7. Other indirect business taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	786
(*) Reimbursements of sales tax for exports have been deducted. TOTAL VALUE ADDED:	6,794

DESCRIPTION OF SALES PRODUCTS:

All products are manufactured in series, some of them under license agreements.

Medium-priced shoes of good quality.

Terms of delivery: Long-term supply agreements between company and retailers. Delivery usually 6 weeks ahead of each season.

MARKET ASPECTS:

Sales organization:

Central sales department for all 5 establishments. 37% of total production is sold in 40 company-owned stores; the remaining 63% is sold by company-representatives to about 1,500 independent retail-stores.

Shares in the domestic market:

Company holds about 14% of the domestic market for ladies', men's and children's shoes. Leading manufacturer of slippers.

Sales areas:

Western Europe, USA, Canada, Japan, and Australia.

Orientation in the market:

Imports from Southern and Western European countries have a very strong impact on domestic pricing.

EXPORT:

Total annual export: US \$ 1,921,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Ski boots	100%	-	-
Braided shoes	100%	-	-
Other export articles	100%	-	-

Export price policy:

International competitiveness is increased due to export subsidies (exemption from sales tax). The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VII.C has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)

	Quantity consumed Unit " "	% import	Avg. unit price US\$ \$	Total consumption value US\$ US \$
1. Energy and water				
TOTAL:				21
- Electricity	600 MM 2,790	-	-	70
- Coal, coke	1 ..			1
- Petrol oil	1 500			
- Gas	600 M 19			15
- Water	600 M 60			1
				8
2. Production materials				8,833
TOTAL:				
- Upper leather	60 370,000	25	104	3,196
- Lining leather	60 470,000	47	73	1,051
- Slipper material	.. ..	60	5	750
- Shoe material	kg 1,800,000	30	52	2,094
- Textile material	.. ..	30	67	1,160

3. Other materials & supplies

PERCENT:	
- Packaging material (boxes, cases, card-boards, etc.)	248
- Parts, supplies & services	195
- Other materials & supplies	36

4. Business services purchased

PERCENT:	
- Transportation, storage & insurance	777
- Communication, advertising & other business services	713

5. Work performed by subcontractors

PERCENT:	
	-

TOTAL VALUE OF CONSUMPTION: 10,297

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)	Number	Original Purchase Value (\$000 US \$)	Replace- ment value (\$000 US \$)	Av. Age (yrs)	Remarks	Supplier:	
						SH	Purchased second-hand
Cutting machines and devices	200	232	..	10	-		
Stitching machines and devices	800	348	..	8	-		
Bottom preparation and stamping machines	200	232	..	15	Ob		
Lasting machines	900	619	..	8	partly SH		
Transport devices (for stitching and bottom department)	..	116	..	2	-		
Computer	1	472	..	3	-		
Hydraulic cutting, molding and stamping machines	120	232	..	4	-		
Machines for production of cardboard boxes	20	58	..	8	partly SH		
Printing presses	10	39	..	2	-		
Machines for production of stitching knives	30	58	..	15	-		
Various other machines	70	77	..	10	partly SH		

The majority of the machinery was supplied by the Federal Republic of Germany, and only to a minor extent by the U.K.

Daily running time: 9 hrs.

CAPACITY POWER:

Process equipment:

- electric motors kW 700

Generating equipment:

- installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shop	Kind of process involved	Innovation:		C moderate standard		Automation:	E. non-automated
		A most advanced	B moderately high standard	D appreciably short of today's standard	E. almost outdated		
Men's shoe factory		A	II			2,000 pairs/day	110%
Ladies' shoe factory		A - B	II			3,500 " "	110%
Children's shoe factory		A	II			300 " "	110%
Ski boot factory		A	I - II			..	..
Slipper factory		A	I - II			..	..
Stamping department		A - B	III			..	..

CAPACITY UTILIZATION:

Full capacity output US \$ 17,000,000.

Current utilization: Based on 1-shift operation.

Major products (in processes)	up to 30	30 - 50	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100	Approximate %
	up to 30	30 - 50	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100	up to 30

Men's shoes

IX. HISTORY & PLAN

1. Performance in the past:	(*)		No. of persons employed	Total output (\$000 US \$)	Total output (\$000 US \$)
	Total output (\$000 US \$)	No. of persons employed			
Year: 1963	7,080	2,341	460		
1964	6,420	2,309	700		
1965	7,470	2,334	910		
1966	12,710	2,507	1,020		
1967	14,170	2,518	1,620		
1968	-	-	-		

(*) Other than exports:		Approximate amount (\$000 US \$)	Type of investment
From 1955 to 1967 :	6,700		Buildings, machinery, data processing equipment, etc.
1967 :	690		

3. Future Plan:	
From 1969 to 1974:	3,900

Expansion of machinery and equipment, administrative and welfare facilities; rationalisation and specialisation of machinery. 100 additional skilled operatives and 15 additional non-operatives will be required on the 1st shift.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; the figures of those size groups are included in those underlined.

(1964)

Industry Manufacture of footwear

(ISIC-Code: 241)

1. Size groups by number of persons employed	No. of total	No. of empl.	Av. W. &. S. per pers. (\$000 US \$)	Av. gross prod. val./ per pers. (\$000 US \$)	Av. value added/gross prod. val. (%)	2. Size groups by annual rate of production (\$000 US \$)		Av. W. &. S. per pers. (\$000 US \$)	Av. gross prod. val./ per pers. (\$000 US \$)	Av. value added/gross prod. val. (%)
						No. of empl.	No. of pers.			
up to 19	4,734	3,380	1,050	9,646	45	up to 20	4,509	3,318	921	10,825
20 - 99	73	1,484	1,269	5,664	48	20 -	40	163	456	9,561
100 - 499	36	12,092	1,414	6,183	45	40 -	200	92	1,411	5,326
500 - 999	2	c	c	c	c	200 -	400	35	1,767	5,312
over 1,000	2	c	c	c	c	400 -	2,000	41	6,189	6,069
						over	2,000	11	6,814	6,022
TOTAL	4,851	17,355	1,338	6,745	45	TOTAL	4,851	17,955	1,338	6,745

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services			
1. Engineering study	1. Technical and managerial personnel	4. Import and export promotion	
2. Financial assistance	4. Industrial training	5. Administration of foreign labour	
3. Industrial services	7. Technical consultancy		
4. Equipment supply,			
Installations & maintenance			

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project
1				
3				The company is prepared to provide shoe manufacturing enterprises with engineering studies.
4				Know-how contracts concerning industrial process engineering, product planning and plant lay-out could be signed any time. Company has gained large experience in these fields.
5				Used machinery could be made available. Suppliers of new machinery could be procured.
6				Provision of staff-members only possible for a limited period of time.
7				Shoe factory workers, electricians, fitters and designers could be trained.
8				Technical consultancy could be considered.
				Company is interested in importing tanned leather. Exports of shoes to developing countries may not be possible due to high prices.

XII. SUPPLEMENTS & NOTES

The company consists of 5 establishments, 4 of which engage in shoe production, 1 establishment produces lasts. This study summarises all 5 establishments. Additional data about the individual establishments are available to a limited extent only. The reporting units are: No. 1: men's and ladies' shoes, ski boots
 No. 2: slippers and sandals
 No. 3: children's flexible shoes
 No. 4: upper parts for men's shoes
 No. 5: lasts.

1. Fixed capital assets (in 000 US \$)

	Establishment					Total
	No. 1	No. 2	No. 3	No. 4	No. 5	
Land	22	-	3	5	..	59
Buildings	1,099	22	65	100	..	1,228
Primary process equipment	1,709	425	16	33	..	2,656
Auxiliary facilities	2,258	143	131	34	..	2,565
	5,088	590	215	172	443	6,508

2. Working capital (in 000 US \$)

A. Inventories

	Establishment					Total
	No. 1	No. 2	No. 3	No. 4	No. 5	
Production materials	1,007	21	63	15	11	1,195
Other input materials	-	-	-	-	-	-
Work-in-process	210	32	71	9	-	322
Finished products	854	-	-	-	-	854
	2,071	131	134	24	11	2,371

B. Liquid assets

	Establishment					Total
	No. 1	No. 2	No. 3	No. 4	No. 5	
Cash on hand and in bank	359	2	15	1	-	377
Marketable securities	70	2	-	-	-	72
Accounts receivable from delivery of goods & services	1,882	340	312	56	13	2,603
Other accounts receivable	176	142	62	1	-	381
Prepaid expenses	161	4	-	-	-	165
	2,648	490	390	58	13	3,598

3. Value added (in 000 US \$)

	Establishment					Total
	No. 1	No. 2	No. 3	No. 4	No. 5	
Annual wages and salaries	2,466	320	508	66	42	3,412
Other payments for employees	715	81	114	16	9	935
Annual depreciation	585	52	65	29	-	731
Rentals paid	-	11	42	-	31	87
Interest and royalties	109	17	13	9	-	148
Sales tax	649	9	14	25	8	705
Corporate income before tax	413	251	75	18	29	786
(-) Subsidies (export)	(10)	(56)	(25)	(23)	(2)	(116)
	4,927	685	809	140	117	6,678

Depreciation policy:

The company applies both the straight-line and the accelerated methods of depreciation. In the first year of installation accelerated depreciation of buildings (20%), plant equipment (50%) and cars (50%). In all subsequent years application of the straight-line methods: buildings 2%, machinery 10%, plant equipment 15%, cars 20%.

Willingness:

Both the cutting and stitching shops could still increase their output if additional skilled operatives could be provided.

EAST AFRICA : 251-(1)		Page one	
774			
<u>REPORTING UNIT:</u>		Plywood. Capable of manufacturing annually 3,540,000 m ² based on 3-shift operation.	
<u>REPORTING UNIT:</u>		A branch-establishment of a fairly decentralised, multi-establishment enterprise, founded in 1963, privately owned. Foreign capital participation: 76%.	
I. FIXED CAPITAL ASSETS (in 000 US \$) (End of 1967)		Year of comp.	Orig. purchase value
1. Primary process equipment			Value after depreciat.
total:			261
- Process equipment		1963	261
- Hand tools and apparatuses			211
- Cost of installation			
2. Primary industrial building			
total:			
(total floor space: .. m ²)			
3. Auxiliary facilities			
total:			4
- Water, steam, electricity, cooling and storing			4
- Transportation facilities (total load: .. t)			..
- Administrative facilities			..
- Laboratory facilities			..
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excl. land):			265
4. Other fixed capital assets			
total:			-
- Land (total acreage: .. m ²)			-
DETAILED OF I.1. (supplier): (all FNG)		Year of inst.	Orig. purchase value
Peeling equipment (1)			
Slicing equipment (1)			
Knives (2)			
Sharpener (2)			
Saws (8)			
Clipper (4)			
Trolleys (29)			
Tanks (2)			
Chain belt dryer (1)			
Edge cutter (1)			
Splicer (1)			
Glue spreading and mixing equipment (1)			
Lathe (1)			
Grinder (1)			
Thread gauge (1)		1963	..
Presses (2)			
Air compressor (1)			
Scrapper (1)			
Tripple drum (1)			
Blowers (3)			
Bundling stripping machines (2)			
Gauge pliers (2)			
Boilers (4)			
Cranes (3)			
Jointing machine (1)			
Driller (1)			
Drying kilns (2)			
Panel sizer (1)			
others			
CAPACITY POWER:			
Generating equipment:			
- electric motors: (71)		450	kW
Generating equipment:			
- Installed capacity: - kVA			
INTERNAL COMMUNICATION:			
Transport: Long distance: fair; local area: excellent			
TELECOMMUNICATIONS:			
Electricity and water: excellent			
Communication:			
11. INVENTORIES AND WORKING CAPITAL (in 000 US \$)			
1. Inventories (End of 1967)		Actual value	
total:		123	
- Production materials		65	
- Other input materials		-	
- Work-in-process		1	
- Finished products		57	
2. Liquid assets		Actual value	
total:		132	
- Cash (hand/bank)		1	
- Marketable t bonds		-	
- Short-term investment		-	
- Prepaid expenses		2	
- Accounts receivable		129	
3. Desired working capital		No.of months	Value
total:			280
- Production materials			23
- Other input materials			-
- Other special items			-
- Finished products			-
- Wages and salaries			-
III. MANNING TABLE (1967 average)		Total	
TOTAL EMPLOYED:		236	145 67 24
1. Primary operative shops		170	83 64 23
Log shop		6	6 - -
Crane and peeler shop		14	7 8 -
Clipper shop		17	9 8 -
Slicer shop		4	4 - -
Dryer shop		18	6 6 6
Edgescutter shop		10	4 4 2
Jointing machine shop		12	4 4 4
Block board, kiln and presa shop		51	27 20 4
Cross cutter shop		12	6 6 -
Scrapper shop		4	2 2 -
Drum sander shop		12	4 4 4
Waste remover shop		6	4 1 1
Others (reserve)		4	- 2 2
2. Auxiliary operative units		50	48 2 -
- Repair and maintenance		7	5 2 -
- Tooling shop		-	- -
- Mechanical shop		13	13 - -
- Utilities control		-	- -
- Product and material storage		20	20 - -
- Off-site transport		4	4 - -
- Guards, cleaners, etc.		5	5 - -
- Clerk		1	1 - -
3. Auxiliary non-operative units		16	14 1 1
- Production management		2	2 - -
- Research and development		1	1 - -
- Sales unit		1	1 - -
- Accounting		-	- -
- General administration		12	10 1 1
CAPACITY OF OPERATIVE SHOPS:			
WORKING TIME PER OPERATIVE WORKER:			
- Normal hours/day:		8	hours
- Normal days/year:		300	days
- Actual hours/year:		2,192	hours

EAST AFRICA : 251 - (1)

IV. ANNUAL PRODUCTION (in 000 US \$)

(1967) Product or group of products	Yr. of prod.	Quantity produced Unit	Nominal capacity output	Unit price ex factory (US \$)	Total production value
Plywood (marine plywood, block boards, flush doors, and moulded plywood)	1963	m3	2,087.7	3,540	237.3
Total value of production					495

Imports

In 1967 exports amounted to US\$ 150,000 at a f.o.b. price of US\$ 261/m3.

Capacity utilization

Major causes of the under-utilization of the productive capacity are lack of demand and seasonal factors. 560 additional man hours would be needed annually to reach full capacity.

V. ANNUAL CONSUMPTION (in 000 US \$)

(1967) 1. Energy and water	Total:	Quantity consumed		Tariff rate	Total consumption value
		Unit	Purchase		
Electricity		000 Kwh	425	-	13
Water		000 m3	2,009,000	-	12
Total:					1
2. Production materials					
Total:					207
Lego		m3	8,367	-	127
Timber		m3	533	-	30 f
Glue and hardener		t	240	100	45
Others		-	16

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(in US \$)

(1965)		ISIC-code 25			
1. Size groups by establishments	No. of establishments	No. of employees	Avg. size	Avg. gross prod.vol./ gross prod.	Total
10 - 19	23	362	..	..
20 - 49	26	783	..	..
50 - 99	19	1,425	..	..
100 - 499	5	922	..	..
over 500	-	-	-	-	
Total	73	3,492	399	1,514	
2. Size groups by scale of production of establishments					
Up to 2					
2 - 8					
8 - 40					
40 - 120					
120 - 240					
240 - 400					
400 - 1,600					
1,600 - 4,000					
over 4,000					

No data available

* Capital is defined as physical capital assets.

VI. VALUE ADDED (in 000 US \$) Page two

(1967)	Value
1. Wages & salaries	
- Employees in direct production (220 persons)	43
- Other employees (16 persons)	23
2. Other payments for employees	5
3. Annual depreciation	40
4. Rentals paid	-
5. Interest and royalties	21
6. Sales tax	-
7. Other indirect tax (-) subsidies	-
8. Corporate income before tax	50
TOTAL VALUE ADDED:	210

VII. MONTHLY EARNING RATES (in US \$)

(End of 1967)	No. of cases	Average earning rates
1. Local non-operatives		
Total:	8	533
- Managers	-	-
- Engineers	-	-
- Technicians	-	-
- Accountants	5	700
- Sales officers	-	-
- Clerks and typists	3	254
2. Local operatives		
Total:	126	121
- Supervisors	4	252
- Foremen	-	-
- Machine operators	30	1,050
- Craftsmen	-	-
- Truck drivers	2	70
- Other fulltime operatives	134	28
- Unskilled operat.)	2	49
3. Foreign employees		
Total:	-	-

(+) Excl imported

	Value
3. Other materials and supplies	
Total:	30
- Packaging (e.g. for equipment, maintenance)	1
- Parts etc. for equipment, maintenance	27
- Materials for non-manufact. act.	2
4. Business services purchased	
Total:	17
- Transport, storage + insurance	6
- Comm. advertising + other maint.	11
5. Work performed by sub-contractors	
Total:	10
TOTAL VALUE OF CONSUMPTION:	217

IX. SUPPLEMENTS

History of investment

Construction of the factory was first started in 1964. Industrial as well as commercial production began in 1965. In 1967 about US\$ 360,000 were invested for expansion of production.

Major investment was undertaken in 1967: of US\$ 360,000. Affected were the production of plywood of different grades, block boards, and flush doors.

Commission work

Tapping of veneer is handled by sub-contractors, on piece work contracts.

Future plan

A major expansion programme is planned for 1969, 1970, with an investment of US\$ 210,000. Products affected: Metal edging, nails, hooks for sea boxes, glue plant. Additional labour requirement for first shift: 14, and for second shift: 8 persons.

Major Products:

Plywood and sawn timber. Annual capacity output is 1,500,000 m² / 3,0 mm of plywood and 4,000,000 board-feet of sawn timber on two-shift operation.

Reporting Unit:

A centralized multi-factory enterprise, founded in 1936; public corporation; no participation of foreign capital.

I. FIXED CAPITAL ASSETS

(End of 1966)

1 Primary process equipment

TOTAL

- Process equipment
- Hand tools & apparatuses
- Cost of installation

2 Primary industrial building

TOTAL

- (total floor space: 2,114 m²)

3 Auxiliary facilities

TOTAL

- Water, steam, electricity, cooling & storing
- Transportation facilities
- Administrative facilities
- Laboratory facilities

TOTAL PHYSICAL FIXED CAPITAL ASSETS

Including land

4 Other fixed capital assets

TOTAL

Land (total acreage: 17,750 m²)

DETAIL OF PROCESS EQUIPMENT (in.)

Supplier country

Year of installation

One purchase value

1000 US \$

Replacement value

1000 US \$

- Oiler

U.S.A. 1947-50

1000 US \$

1000 US \$

- Rotary veneer peeling

U.S.A. 1947-50

1000 US \$

1000 US \$

- Dryers

U.S.A. 1947-50

1000 US \$

1000 US \$

- Veneer clipping and separating dept.

U.S.A. 1947-50

1000 US \$

1000 US \$

- Drying machines

U.S.A. 1947-50

1000 US \$

1000 US \$

- Press department

U.S.A. 1947-50

1000 US \$

1000 US \$

- Trimming and finishing dept.

U.S.A. 1947-50

1000 US \$

1000 US \$

- Veneer chipping and assembling dept.

U.S.A. 1947-50

1000 US \$

1000 US \$

- Drying machines

U.S.A. 1947-50

1000 US \$

1000 US \$

- Press department

U.S.A. 1947-50

1000 US \$

1000 US \$

- Trimming and finishing dept.

U.S.A. 1947-50

1000 US \$

1000 US \$

- Veneer chipping and assembling dept.

U.S.A. 1947-50

1000 US \$

1000 US \$

- Drying machines

U.S.A. 1947-50

1000 US \$

1000 US \$

- Press department

U.S.A. 1947-50

1000 US \$

1000 US \$

- Trimming and finishing dept.

U.S.A. 1947-50

1000 US \$

1000 US \$

- Veneer chipping and assembling dept.

U.S.A. 1947-50

1000 US \$

1000 US \$

- Drying machines

U.S.A. 1947-50

1000 US \$

1000 US \$

- Press department

U.S.A. 1947-50

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U.S.A. 1947-50

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- Drying machines

U.S.A. 1947-50

1000 US \$

1000 US \$

- Press department

U.S.A. 1947-50

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U.S.A. 1947-50

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U.S.A. 1947-50

1000 US \$

1000 US \$

- Drying machines

U.S.A. 1947-50

1000 US \$

1000 US \$

- Press department

U.S.A. 1947-50

1000 US \$

1000 US \$

- Trimming and finishing dept.

U.S.A. 1947-50

1000 US \$

1000 US \$

- Veneer chipping and assembling dept.

U.S.A. 1947-50

1000 US \$

1000 US \$

- Drying machines

U.S.A. 1947-50

1000 US \$

1000 US \$

- Press department

U.S.A. 1947-50

1000 US \$

1000 US \$

- Trimming and finishing dept.

U.S.A. 1947-50

1000 US \$

1000 US \$

- Veneer chipping and assembling dept.

U.S.A. 1947-50

1000 US \$

1000 US \$

- Drying machines

U.S.A. 1947-50

Major Products: Pine plywood. Capable of manufacturing annually 2,400,000 m²/6 mm of pine plywood on three-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1956; privately owned; no participation of foreign capital. Business year: 1 June 1966 - 31 July 1967.

I. FIXED CAPITAL ASSETS

(End of July 1967)

1. Primary process equipment

TOTAL

- Process equipment
- Hand tools & apparatuses
- Cost of installation

2. Primary industrial building

TOTAL

(total floor space: 13,774 m²)

3. Auxiliary facilities

TOTAL

- Water, steam, electricity, cooling & storing (incl. incl.)
- Transportation facilities
- Administrative facilities
- Laboratory facilities

TOTAL PHYSICAL FIXED CAPITAL ASSETS

(excluding land)

4. Other fixed capital assets

TOTAL

- Land (total acreage: 76,653 m²)
- * Facilities other than transport are included in I.P.

DETAIL OF PROCESS EQUIPMENT (no.):

Supplier country

Year of installation

Orig. purchase value (1000 US \$)

Replacement value (1000 US \$)

Wood peeling lathe

Clippers (Chapa verde)

Driers (2)

Patching machine (1)

Glue mixing and spreading equip.

Jointer (1)

Assembling machine (1)

Press (1)

Surface finishing machine (1)

Trimming machines

General equipment

HISTORY OF INVESTMENT:

The factory was constructed in 1956.

The trial production started in 1956, the commercial production in 1957. The first profits were made in 1957, when utilization rate of capacity reached 50%. In 1965/66 approximately US \$ 320,000 were invested for expansion of production (both machinery and buildings).

CAPACITY POWER:

Process equipment:

Electric motors:

kW

Generating equipment:

Installed capacity

- kVA

EXTERNAL CONDITIONS:

Transport: Long distance and local area, fair.

Utilities: Electricity, fair; water, excellent.

Community: Residential, health and recreational, excellent. Educational, fair.

II. INVENTORIES AND WORKING CAPITAL

(in 1000 US \$)

(End of July 1967)

1. Inventories

TOTAL

- Production materials
- Other input materials
- Work-in-process
- Finished products

3. Desired working capital

TOTAL

- Production materials
- Other input materials
- Finished products
- Wages & salaries
- Other special items

III. MANNING TABLE

Number of persons

A = Mainly operative
B = Other personnel

(150% / 7 average)

Total

A

B

1st shift

A + B

2nd shift

A + B

3rd shift

A + B

ALL SHOPS & UNITS:

1. Primary operative shops

- Veneer Department
- Plywood Department

2. Auxiliary operative units

- Repair and maintenance
- Mechanical shop
- Utilities control
- Product & material storage
- Off-site transport
- Guards, cleaners, etc.

3. Auxiliary non-operative units

- Production management
- Research & development
- Sales unit
- General administration
- Others (office and lab.)

WORKING TIME PER OPERATIVE WORKER:

Normal hour/day	7.4	hours	Normal days/year	340	days
Actual hours/year	2516	hours	(incl. 52 Sundays)		

CAPACITY OF OPERATIVE SHOPS:

In the veneer department, the nominal capacity output is 2,400,000 m²/6 mm per annum. Capacity is utilized up to 90%. Moderate automation and mechanization.

IV. ANNUAL PRODUCTION

(1966/67)

Products for group of products

	W. of prod.	Quantity produced	Standard unit output	Unit price in factory US \$	Total production value US \$ US \$
- Men's shoes	1965	pair	1,166	17,000	3,60
- Ladies' shoes	1965	"	38,698	57,000	1,20
- Children's shoes	1965	"	14,147	32,000	2,40
- Heels					1,0
TOTAL VALUE OF PRODUCTION					47,2

TOTAL VALUE OF PRODUCTION

47,2

VI. VALUE ADDED

(1966/67)

	Value US \$ US \$
1. Wages & salaries	
- Employees in direct production (- 20 persons)	12,0
- Other employees (- 2 persons)	1,4
2. Other payments for employees	0,6
3. Annual depreciation	0,6
4. Rent paid	0,4
5. Interest & royalties	1,4
6. Sales tax	0,0
7. Other ind. bus. taxes	0,0
8. (-) Subsidies	0,0
9. Corporate income before tax	0,0
TOTAL	25,6

25,6

COMPETING IMPORTS:

The following protective tariff rates are imposed on imported shoes:

men's shoes	US \$ 6.00/gross kg
ladies' shoes	" " 4.00 "
children's shoes	" " 1.40 "

In addition a 10% ad valorem rate is charged.

CAPACITY UTILIZATION:

In order to achieve full utilization of capacity 25,900 additional man-hours would be required annually.

V. ANNUAL CONSUMPTION

(1966/67)

1. Energy and water

TOTAL

	Quantity consumed	Total consumption value US \$ US \$
	MM	MM
- Electricity	000 KWh	9.6
- Motoroil	m3	0.225
- Water	000 m3	0.180
		0.6

2. Production materials

TOTAL

	per ad gross vs- kg loren	Total US \$
- Leather	m2	7,561
- Soles	kg	3,200
- Woolits	sheet	3,490
- Synthetic leather	a	2,743
- Microcellular soles	sheet	1,500
- Fibreboard	sheet	1,000
- Adhesive	gallons	800
- Curb bars	a	45,720
- Heels	pair	25,000
- Others		..
		58,8
		0.6

VI. MONTHLY EARNING RATES

(End of 1966 b)

No. of pers. emp.	Average earning per month US \$
1. Local non-operatives	
TOTAL	116
- Managers	1
- Engineers	-
- Technicians	-
- Accountants	1
- Sales officers	6
- Other professional staff	-
- Clerks & typists	-
2. Local operatives	48
TOTAL	48
- Supervisors	-
- Foremen	-
- Machine operators	24
- Craftsmen	-
- Truck drivers	-
- Other full-time operatives	1
- Unskilled & part-time operatives	41
3. Foreign employees	-
TOTAL	-

VII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(196)

Industry group:

1. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	(INC:)
up to	MM	MM	MM	MM

No data available.

VIII. SUPPLEMENTS

Future plan:

By 1970, approx. US \$ 20,000 will have been invested
for the expansion of the heels and soles shop.6 persons are to be employed additionally on the
first shift.

TOTAL

2. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

TOTAL

3. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

4. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

5. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

6. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

7. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

8. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

9. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

10. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

11. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

12. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

13. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

14. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

15. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

16. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

17. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

18. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

19. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM
up to	MM	MM	MM	MM

20. One group by number of employees	Av. W. &. L.	Av. gross val. per prod.	Av. exp. per prod.	MM

IV. ANNUAL PRODUCTION

(1966/67)	Yr. of first prod.	Quantity produced	Nominal capacity output	Unit price ex factory US \$	Total production value US \$
		Unit	Output	(average)	
- Pine plywood (6 mm) (of various specifications)	1966/67	m ²	2,160,000	2,400,000 1.05	2,225

* Unit prices vary by types of plywood US \$ 1.05/m² is the average price, not including sales tax.

Exports:

Pine plywood is partly exported. Ex-factory price for exports is US \$ 0.64 per unit. Production of this special item absorbs a great quantity of veneer cores; production costs are therefore lower than for other types of plywood.

Capacity utilization:

Satisfactory

VI. VALUE ADDED

(1966/67)	Value (US \$)
1. Wages & salaries	
- Employees in direct production	106,3
- 159 persons	
- Other employees	167,4
- 56 persons	
2. Other payments for employees	90,6
3. Annual depreciation	94,2
4. Rentals paid	7
5. Interest & royalties	11,2
6. Sales tax (not incl. in TOTAL)	166,3
7. Other ind. bus. taxes	2,0
8. (-) Subsidies	(-) 0,9
9. Corporate incomes before tax	310,2
	1,091,5

VII. MONTHLY EARNING RATES

(End of July 1967)	No. of emp.	Average earning per month US \$
1. Local non-operatives		
TOTAL:	29	301
- Managers	1	1,040
- Engineers	1	480
- Technicians	1	224
- Accountants	5	272
- Sales officers	2	400
- Other professional staff	2	160
- Clerks & typists	9	124
2. Local operatives		
TOTAL:	187	100
- Supervisors	1	640
- Foremen	3	125
- Machine operators	70	148
- Craftsmen	14	114
- Truck drivers	1	104
- Other full-time operatives	12	64
- Unskilled & part-time operatives	26	37
3. Foreign employees		
TOTAL:		

	No. of emp.	Total consumption value US \$
3. Other materials & supplies		
TOTAL:		83,9
- Packaging	1	7
- Repair & maintenance	20	75,4
- Non-factor service inputs		4,6
4. Business services purchased		
TOTAL:		124,1
- Transport, storage & insurance		17,8
- Communications, advertisements, etc.		106,3
5. Work performed by sub-contractors		
TOTAL:		

1,111,9

Major Products:

Sawn timber, chopped lumber, saw dust, etc.
In 1967 the company produced approximately 62,000 t of sawn timber and about 10,000 t of chopped lumber
and saw dust on 1-shift operation.

Reporting Unit:

A one-establishment enterprise; founded in 1903; privately owned; 151 employees; 95% exports; 2/3 of production
material internally supplied.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value 1960 US \$	Replace- ment value 1960 US \$	Av- erage (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	356	413	
- Process equipment *	354	370	
- Hand tools & apparatuses	2	2	
2. Buildings	350	674	
TOTAL	231	380	
- Primary industrial buildings (total floor space: 1,366 m ²)	231	380	
- Auxiliary buildings	47	83	19
- Warehouses	7	7	
- Office administration buildings	16	35	15
- Housing	96	100	23
3. Auxiliary facilities (excl. buildings)	77	130	
TOTAL	56	130	
- Internal power equipment	56	130	16
- Laboratory facilities	7	7	
- Means of transportation	10	32	6
- Office equipment	12	23	6
TOTAL PHYSICAL FIXED ASSETS (excluding land)	78	767	
4. Other fixed capital assets	291	674	
TOTAL	85	341	
- Land (total acreage: 0.111 m ²)	85	341	
- Land improvements (t.lands: 0.100 m ²)	9	0	
- Others	177	332	

H. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1967 monthly average)

	Up to 100 US \$	100- 140 US \$	140- 160 US \$	160- 240 US \$	240- 560 US \$	560 US \$
1. Location operatives						
- Managers	-	-	-	-	1	1
- Engineers	-	-	-	-	-	-
- Technicians	1	-	2	-	-	-
- Accountants	-	-	-	-	-	-
- Sales officers	-	-	-	-	-	-
- Clerks and typists	3	-	2	-	-	-
- Others	-	-	-	5	-	-
2 Local operatives						
- Supervisors	-	-	-	-	1	-
- Foremen	-	-	-	-	-	-
- Skilled operatives	-	-	27	15	-	-
- Machine operators	-	20	30	-	-	-
- Craftsmen	-	-	-	4	-	-
- Truck drivers	-	-	-	-	-	-
- Unskilled operatives	-	5	-	-	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	20	-	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	Fair
	internal long distance	"
	local and city	"
Utilities:	electricity	Fair
	water	Fair
	gas	Insignificant
Community:	residence	Excellent
	health and recreation	"
	education	"
Own Welfare Facilities:		Cafeteria, sports club

III. INVENTORIES

(End of 1967)

	Actual value 1960 US \$	Number of months
Inventories	171	
TOTAL:		
- Production materials	123	3
- Other input materials	6	1
- Work-in-process	27	7
- Finished products	23	1

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	
- Shift hours/day (*)	10	-	-	hours
- Actual hours/day:	2,295	-	-	hours
- Actual days/year:	230	-	-	days

(*) Actual shift hours due to overtime. Normal working time: 8 hrs/day.

IV. MANNING TABLE

Number of persons

(1967 average)

	Total	A	B	C	D	E	F	G
ALL SHOPS & UNITS:	141	2	133					
1. Primary operative shops	117	2	11	24	-	-	-	-
- Round timber storage yard	18	1	1	4	4	-	-	-
- Saw mill	46	1	40	16	-	-	-	-
- Planing mill	1	-	1	-	-	-	-	-
- Drying rooms	3	-	3	-	-	-	-	-
2. Auxiliary operative units	61	3	48	-	-	-	-	-
- Repair & maintenance	4	-	9	-	-	-	-	-
- Mechanical shop	-	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-	-
- Utilities control	-	-	-	-	-	-	-	-
- Product & material storage	41	3	44	-	-	-	-	-
- Off-site transport	-	-	-	-	-	-	-	-
- Guards, cleaners, etc.	1	-	1	-	-	-	-	-
- Stores (+ material)	4	-	4	-	-	-	-	-
3. Auxiliary non-operative units	11	11	-	-	-	-	-	-
- Production management	2	2	-	-	-	-	-	-
- Research & development	-	1	-	-	-	-	-	-
- Sales unit	1	-	-	-	-	-	-	-
- Accounting	3	3	-	-	-	-	-	-
- General administration	2	2	-	-	-	-	-	-

V. ANNUAL PRODUCTION

(1968)

Product by group of products

	Wd mt	Quantity produced mt	Value mt	Value mt	Value mt
	1000	1000	1000	1000	1000
Sawn timber	..	1,131	62,411	39,101	2,438
Chopped timber, saw dust, etc.	..	1,131	2,212	1,591	262

TOTAL VALUE OF PRODUCTION: 2,693

VI. VALUE ADDED

(1968)

1. Annual wages & salaries

- Operative workers

1.1.1.1. ground

- Non-operative workers

1.1.1.2. ground

2. Other payments for employees

3. Annual depreciation

- Machinery & equipment

- Buildings & other facilities

- Non-physical capital assets

4. Rentals paid

5. Interest & royalties

6. Taxes

7. Other indirect business taxes

8. (-) Subsidies

9. Corporate income before tax

Total
value
1000

2,693

TOTAL VALUE ADDED: 6,032

DESCRIPTION OF MAJOR PRODUCTS:

a) Sawn timber: Serial production, delivered in wagons of 50 mt each, 6 weeks delivery time.

b) Chopped timber, saw dust, etc.: by-product, delivered by truck, not exportable, immediate delivery.

MARKET ASPECTS:

Consumers of products:

Construction firms, carpenters.

Sales organisations:

Own representatives abroad. No domestic sales staff required, since only local market serviced. Export-oriented.

Share in domestic market:

Insignificant.

Exports:

2% of national export of sawn timber.

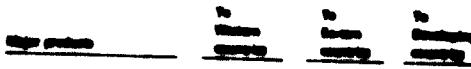
Exports to: Near East, Africa, Argentina, Southern and Western Europe.

Export price policy:

No influence on the market prices prevailing in importing countries.

EXPORT:

Total annual export: US \$ 2,245,000.



Governmental policies:

The government subsidises exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1968)

	Quantity consumed mt	Value mt	Value mt
	1000	1000	1000
1. Energy and water			
TOTAL:	1,946	14	
- Electricity	1,946	14	

2. Other materials & supplies

TOTAL:

- Packaging material

- Parts, supplies & services

- Other materials & supplies

4. Business services purchased

TOTAL:

- Transportation, storage &

- Insurance

- Communication, advertising &

other business services

5. Work performed by subcontractors

TOTAL:

-

TOTAL VALUE OF CONSUMPTION: 2,088

1000

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT 8.1.2.

	No.	Original Power kW	Present Power kW	No. of units	No. of units	No. of units	Supplier country	Year of installa- tion	Daily running time	Capacity output
Haley saw	1	10.8	34.8	5						
Multiple-blade saw frames	4	112.9	131.5	3						
Frames	1	4.5	6.1	15						
Double saw for parallel sawing	1	1.2	3.1	2						
Cold-belt saw cutting-off machines	2	5.5	15.5	17						
Chopper	1	10.8	10.8	3						
Planing machine	1	4.5	5.8	6						
Hydraulic oscillating saws	2	1.6	1.9	5						
Lattice circular saws	2	7.2	8.5	5						
Automatic double oscillating saw	1	3.4	4.6	3						
Round timber sorting machine	1	27.1	32.0	1			Austria	1967	7 "	..
Oscillating saw mechanization	1	32.0	32.0	1			PW-Germ.	1967	7 "	..
Full automatic saw-setting app.	1	2.5	2.5	2			PW-Germ.	1964	7 "	260 m³/day
Crane	1	82.8	82.8	3			PW-Germ.	1964	7 "	6 m³/day
Conveyor belts	4	2.8	3.1	2						
Three phase motors	17	2.8	3.1	6						
Furnace	1	7.2	8.5	12						
Lathe	1	4.4	8.0	10						
Automatic saw sharpener	1	1.0	2.3	4						
Upsetting and conditioning machine	1	1.0	2.7	5						
Others	10	5.3	8.1	6						

CAPACITY POWER:
Process equipment:
 - electric motors (17) = 1,623 kW

Generating equipment:
 - installed capacity = 800 kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Type primary operative shop	No. of power needed	Description		C. number needed	D. capacity share of order's needed	E. capacity share of order's planned	F. number planned	Description	
		Order	Planned					Order	Planned
Round timber storage yard				0	III				
Saw mill				0	III				
Planing mill				1	III				
Drying rooms				8	III				
Sawn timber storage department				8	III				

CAPACITY UTILIZATION:

Full-capacity output: US \$ 2,700,000,-. In 1967 US \$ 3,111,100,- worth of sawn timber was produced amounting to a capacity utilization of almost 90%.

Current utilization:

Type products to process	Approximate %									
	0	25	50	75	100	125	150	175	200	225
Sawn timber	X									

III. HISTORY & PLAN

1. Performance in the past:

	No. of	No. of
	1963	1964
Year	2,636	2,888
	175	165
	2,572	2,408
	1965	2,724
	164	164
	2,646	2,646
	1966	2,302
	142	142
	2,662	2,662
	1967	2,691
	149	149
	2,567	2,567
	1968	2,373
	135	135
	2,709	2,709

2. Investments in the past:

	No. of	Type of
Prod. 1963 to 1967	561	Machinery and conveying equipment

3. Future Plan:

	No. of	Type of
Prod. 1968 to 1972	310	Further mechanization of machinery, equipment, workshops, and production processes. Consequently, 10 persons could be employed less.

IV. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1967)

Industry Saw mill and planing mill

WEC-Code: 251-1

1. No. groups by number of persons employed	No. of	No. of	No. of		No. of		No. of		No. of	
			0-19	20-99	100-499	500-999	1,000+	2,000+	3,000+	4,000+
up to 19	1,029	3,265	1,161	3,996	38					
20 - 99	235	1,460	1,483	9,269	38					
100 - 499	18	3,364	1,112	8,190	37					
over 500	-	-	-	-	-					
TOTAL:	3,282	20,398	1,471	3,447	36					
TOTAL:	3,332	20,398	1,471	3,447	36					

III. CHIEF AREAS FOR COOPERATION WITH DEVELOPING COUNTRIES

- | Type of contract | | |
|-------------------------|---------------------------------------|------------------------------------|
| 1. Engineering study | 5. Technical and management personnel | 8. Import and export management |
| 2. Process contracts | 6. Technical training | 9. Administration of foreign trade |
| 3. Related services | 7. Technical consultancy | |
| 4. Equipment supply | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES

三 三 三

100

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No co-operation possibilities with developing countries reported.

• 1998 •

Bottlenecks:

Peculiar emphasis should be given to the improvement of the former sales organization. The national labour market can no longer provide a sufficient amount of workers.

Inventory No. 108:

Since it takes very much time to receive supplies of unknown timber, large quantities have to be stored in order to ensure continuous utilization of process equipment. As orders fluctuate during different periods of construction activities, the enterprise has to keep considerable inventories of finished products, ton. Altogether finished products amount to 9.3% of the total output value.

Major Products: Chip board.

Capable of producing annually 50,000 m² of chip board based on 3-shift operation. Full-capacity output approximates US \$ 3.1 million.

Reporting Unit:

A one-establishment enterprise; privately owned; founded in 1960; 36 employees; no exports; no research and development.

I. FIXED CAPITAL ASSETS

	Original purchase value (1966 US \$)	Replace- ment value (1966 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	1,513	1,800	
- Process equipment *	1,483	1,763	4
- Hand tools & apparatuses	30	37	-
2. Buildings			
TOTAL	613	675	
- Primary industrial buildings (total floor space: 13,400 m ²)			
- Auxiliary buildings			
- Warehouses	613	675	5
- Office administration buildings			
- Housing			
3. Auxiliary facilities (excl. buildings)			
TOTAL	62	74	
- Internal power equipment			
- Laboratory facilities	13	16	4
- Means of transportation	27	32	5
- Office equipment	22	26	4
TOTAL PHYSICAL FIXED ASSETS (excluding land)	2,188	2,549	
4. Other fixed capital assets			
TOTAL	15	112	
- Land (total acreage: 1.00 m ²)	-	-	-
- Land improvements (t.a.acr. 60,000 m ²)	30	37	-
- Others	65	75	4

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

	(1967 monthly average)					
	up to 125 US\$	125 -160 US\$	160 -200 US\$	200 -300 US\$	300 -1,000 US\$	over 1,000 US\$
1. Local non-operatives						
- Managers	-	-	-	-	2	-
- Engineers	-	-	-	1	2	-
- Technicians	-	-	1	2	2	-
- Accountants	-	-	-	1	-	-
- Sales officers	-	-	-	-	-	-
- Clerks and typists	-	-	2	1	1	-
2. Local operatives						
- Supervisors (*)	-	-	18	4	-	-
- Foremen	-	-	10	16	-	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators	-	-	-	-	-	-
- Craftsmen	-	-	-	-	-	-
- Truck drivers	-	-	-	-	-	-
- Unskilled operatives	-	2	7	5	-	-
- Other full-time operatives	-	-	11	8	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

(*) Company considers supervisors and foremen as local non-operatives.

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section III).

EXTERNAL CONDITIONS:

Transport	external long distance	
	internal long distance	
	local and city	
		Fair
Utilities	electricity	
	water	
	gas	
		Fair
Community	residence	
	health and recreation	
	education	
		Fair
Own Welfare Facilities		-

IV. MANNING TABLE

(Number of persons)

	(1967 average)					
	Total	A	B	C	D	E
		1st Shift	2nd Shift	3rd Shift	1st Shift	2nd Shift
ALL SHOPS & UNITS:	96	15	32	32	23	23
1. Primary operative shops	73	4	6	13	4	23
- Chip board production department	73	4	6	13	4	23
2. Auxiliary operative units	14	2	12	-	-	-
- Repair & maintenance	7	1	6	-	-	-
- Mechanical shop	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-
- Utilities control	1	-	1	-	-	-
- Product & material storage	3	1	2	-	-	-
- Off-site transport	2	-	2	-	-	-
- Guards, cleaners, etc.	1	-	1	-	-	-
3. Auxiliary non-operative units	9	9	-	-	-	-
- Production management	2	2	-	-	-	-
- Research & development	1	1	-	-	-	-
- Sales unit	3	3	-	-	-	-
- Accounting	1	1	-	-	-	-
- General administration	2	2	-	-	-	-

III. INVENTORIES

	Actual value (1966 US \$)	Number of months
Inventories	75	
TOTAL:		
- Production materials	135	0.5
- Other input materials	14	0.5
- Work-in-process	3	-
- Finished products	123	0.5

WORKING TIME PER OPERATIVE WORKER

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	8	8	hours
Actual hours/day	2,360	2,360	2,360	hours
Actual days/year	257.5	257.5	257.5	days

V. ANNUAL PRODUCTION

(1967)		Wt. of fin. prod.	Quantity produced Unit	Avg. unit price at factory RHS 60	Total output value RHS 60
Chip board	1961	63	48,132	64.5	3,106

TOTAL VALUE OF PRODUCTION: 3,106

VI. VALUE ADDED

(1967)		Total value RHS 60
1. Annual wages & salaries		298
- Operative workers	223	
1. 81 personnel		
- Non-operative workers	75	
1. 15 personnel		
2. Other payments for employees		57
3. Annual depreciation	242	
- Machinery & equipment	214	
- Buildings & other facilities	24	
- Non-physical capital assets	4	
4. Rents paid		-
5. Interest & royalties	19	
6. Sales tax	107	
7. Other indirect business taxes	-	
8. (-) Subsidies	-	
9. Corporate income before tax	397	

TOTAL VALUE ADDED: 1,120

DESCRIPTION OF MAJOR PRODUCTS:

Unfinished chip board of different thickness. Serial production.

MARKET ASPECTS:

Consumers of products:

Furniture industry, building trade, timber-merchants.

Sales organisation:

Direct selling to large customers; agents for small customers.

Share in the domestic market:

4 - 5%.

Competition in the market:

Based on special terms of payment granted by other producers of chip board to large customers.

EXPORT: No exports.
Total annual export:

Major products	To Western Europe	To Eastern Europe	To developing countries

VII. ANNUAL CONSUMPTION

(1967)		Quantity consumed Unit	Quantity consumed Unit	Total consumption Value RHS 60
1. Energy and water				
TOTAL:				200
- Electricity	000 kWh	7,527	-	130
- Solid and liquid fuels	..	..	..
- Gas	..	..	..
- Steam	..	..	..
- Water	..	..	..	70
2. Production materials				1,332
TOTAL:				
- Pine wood, unshaved	kg	19,192	-	
- Pine wood, shaved	kg	35,107	-	
- Dendrous wood, unshaved	kg	26,194	-	
- Sawmill waste	kg	870	-	
- Chips	kg	25,974	-	
- Millings	kg	680	-	
- Kermit glue	kg	4,861	-	
- Other chemicals	kg	180	-	

Total consumption Value RHS 60
3. Other materials & supplies
TOTAL:
- Packaging material
- Parts, supplies & services
- Other materials & supplies
4. Business services purchased
TOTAL:
- Transportation, storage & insurance
- Communication, advertising & other business services
5. Work performed by subcontractors
TOTAL:
TOTAL VALUE OF CONSUMPTION: 1,906

THE JOURNAL OF CLIMATE

DETAIL OF PROCESS EQUIPMENT (S.I.)	Number	Original Purchase Value RSR 1000	Original Purchase Value RSR 1000	Av. Age Year	No. of Registers Supplied	Supplier Country	Year of Instal- lation	Daily running time
		RSR 1000	RSR 1000					
Chipping plants	2	13	16	2	..	Germany, FRG	1966	2 shifts
Scattering devices	2	19	24	6	..	Germany, FRG	1961, 1963	2 shifts
Platen-presses	2	59	74	6	..	Germany, FRG	1961, 1963	1.5 shifts
Sanding machines	3	32	37	2	..	Germany, FRG	1967	3 shifts
Gluing apparatuses	3	21	26	5	..			
Other specialised machines	..	200	240	4	90			
Other specialised devices	..	300	357	4	..			
Lift truck	1	10	13	3	..			
Cranes	2	19	27	5	..			
Common type machines		{ 235	{ 270	{ 4	90			
		{ 575	{ 680	{ 4	..			

CAPACITY PROFILE

Power component

Generating equipment

57A . .

DISPARATE AND DISMISSED APPEALS INDEX

Understandable:	<input checked="" type="checkbox"/> <i>readable</i>
Useless information:	<input type="checkbox"/> <i>unnecessary</i>
Unnecessary:	<input type="checkbox"/> <i>unnecessary</i>

Autumnal:

<u>Major primary operating stages</u>	<u>Kind of process involved</u>	<u>Stages</u>	<u>Stages</u>	<u>Further details</u>
Chip board production department		B	C	The production process applied requires a continuous flow of material: the raw material is processed without any interruption until chip board is finished. No differentiation between departments and no in-process stock-taking required.

CAPACITY UTILIZATION

US \$ 3,125,00 based on 2-shift operation.

Chapman - 2019

based on 3-shift operations

ANSWER **ANSWER** **ANSWER**

Chia, Huang

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1. Introduction to the study

Year 1963
1964
1965
1966
1967
1968

Total exports	No. of countries	Total exports
1,150	34	-
1,130	36	-
2,650	106	-
2,410	102	-
3,110	36	-

2. Instruments in the past

From 19.. to 19..

Type of injury
No details available.

1. *Statistical Methods*

Figure 18-4: Is 1871 = 3,400

Expansion of product-line, machinery and equipment in order to avoid any future bottlenecks with regard to production capacity; rationalization of production process. Labour requirements: additional 15 employees on all shifts.

A CHARTER MEMBER OF THE INDUSTRY IN THE COMMUNITY

Scanning electron micrographs of the surface of the A350-800 aircraft

18

III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service	
1	Research and development
2	Product assistance
3	Industrial services
4	Equipment supply
5	Technology transfer
6	Technical assistance
7	Technical consultancy
8	Management
9	Marketing
10	Construction
11	Construction of foreign facilities & equipment

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:**Type of service****Service****No. of services****Description of services**

The establishment is prepared to furnish technical advice (know-how) and to grant licenses for the production of chip board.

Neither import nor export transactions can be foreseen.

IV. SUPPLEMENT & NOTES**Bottlenecks:**

Due to increasing demand company has already reached full-capacity output. In order to abolish this bottleneck most of the 1969 - 71 investments will be utilized to expand the overall capacity.

Inventories policy:

On the average the value of the stock of finished products amounts to about 4% of the total value of production.

Major Products: Steel and wooden furniture. Capable of producing annually approximately 150,000 units of steel furniture and 5,000 units of wooden furniture on 1-shift operation.

Reporting Unit: A one-establishment enterprise, privately owned, founded in 1932, medium-sized. Company belongs to one of the fastest growing enterprises in this industry. Several domestic and foreign branch offices. In designing, exports, 120 employees.

I. FIXED CAPITAL ASSETS

(End of 1967)	Original purchase value 1000 US \$	Replace ment value 1000 US \$	Av. age (Yrs.)
1. Primary process equipment including installation cost			
TOTAL	187	213	11
- Production equipment	187	213	11
- Handling & Apparatus	-	-	-
2. Buildings	360	1,068	
TOTAL			
- Primary industrial buildings	230	740	10
- Total office space	-	-	-
- Auxiliary buildings	70	46	25
- Warehouses	24	292	20
- Office administration buildings	19	-	-
- Housing	-	-	-
3. Auxiliary facilities (excl. buildings)	114	214	
TOTAL			
- Internal power equipment	79	89	20
- Laboratory facilities	-	-	-
- Means of transportation	4	79	5
- Office equipment	41	46	5
TOTAL PHYSICAL FIXED ASSETS (excluding land)	671	1,500	
4. Other fixed capital assets	71	113	
TOTAL			
- Land (total acreage 17.500 m²)	7	7	-
- Land improvements (1.100 m²)	11	104	-
- Others (5 sales offices)	63	99	30

*NR: Details of new equipment and operating premises (primary) and other shops are given on Page three (Section VII).

EXTERNAL CONDITIONS

Transport	external long distance	fair
	internal long distance	excellent
	local and city	"
Utilities	electricity	excellent
	water	"
	gas	"
Community	residence	fair
	health and recreation	insignificant
	education	fair
Other available Facilities	-	-

II. INVENTORIES

(End of 1967)	Actual value 1000 US \$	Number of months
Inventories	476	
TOTAL	476	..
- Production materials	10x	..
- Other input materials	11	..
- Work-in-process	102	..
- Finished products	343	1 - 1 1/2

WORKED TIME PER OPERATIVE WORKER

	1st shift	2nd shift	3rd shift	
Shift hours/day	9	-	-	hours
Actual hours/day	2,065	-	-	hours
Actual days/year	231	-	-	days

Company operates 5 days/week

H. MONTHLY GROSS WAGES AND SALARIES

	Number of persons					
	(1967 monthly average)					
	Up to 100 100 US\$	100 - 140 140 US\$	140 - 160 160 US\$	160 - 240 240 US\$	240 - 560 560 US\$	over 560 US\$

1. Local non-operatives

- Managers	-	-	-	-	-	-
- Engineers	-	-	-	-	-	-
- Technicians	1	-	1	3	-	-
- Accountants	-	2	-	-	2	-
- Sales officers	1	4	-	7	4	1
- Clerks and typists	1	-	2	-	-	-
- Dispatch and warehouse	-	1	-	3	1	-

2. Local operatives

- Supervisors	-	-	-	-	4	-
- Foremen	-	-	-	5	-	-
- Skilled operatives	-	3	9	5	-	-
- Machine operators	1	32	1	-	-	-
- Craftsmen	-	1	-	2	-	-
- Truck drivers	2	-	3	5	-	-
- Unskilled operatives	45	-	-	1	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-
- Warehouse workers	4	6	1	1	-	-
- Apprentices	-	-	-	-	-	-

3. Foreign employees

- Managerial staff	-
- Technical staff	-
- Other skilled operatives	-
- Unskilled operatives	-

IV. MANNING TABLE

	Number of persons					
	(1967 average)					
	Total	A	B	C	D	E
ALL SHOPS & UNITS:	169	40	129	-	-	-

1. Primary operative shops

	106	22	35	44	-	-
- Metal cutting and bending shop	3	1	1	1	-	-
- Drilling and riveting shop	9	2	-	7	-	-
- Electrical and autogenous welding shop	11	1	10	-	-	-
- Mechanical shop	17	6	1	10	-	-
- Paint shop	13	3	-	6	4	-
- Plastic stretching shop	11	-	1	10	-	-
- Fabric stretching shop	6	-	4	2	-	-
- Sewing shop	5	4	-	1	-	-
- Pressing and spring coiling shop	7	-	5	2	-	-
- Joiner's shop	24	2	6	7	7	-

2. Auxiliary operative units

	35	12	23	-	-	-
- Repair & maintenance	-	-	-	-	-	-
- Mechanical shop	-	-	-	-	-	-
- Tooling shop	5	1	4	-	-	-
- Utilities control (*)	6	6	-	-	-	-
- Product & material storage	12	5	7	-	-	-
- Off-site transport	10	-	10	-	-	-
- Guards, cleaners, etc.	2	-	2	-	-	-

3. Auxiliary non-operative units

	28	23	5	-	-	-
- Production management	1	1	-	-	-	-
- Research & development	-	-	-	-	-	-
- Sales unit	9	9	-	-	-	-
- Accounting	3	3	-	-	-	-
- General administration and sales agencies	15	10	5	-	-	-

(*) including payroll department

Major Products: Shoes (leather, rubber, PVC and canvas).
Capable of producing annually 9.5 million pairs of shoes on 1-shift operation.

Reporting Unit: A one-establishment, privately owned enterprise; founded in 1957. No foreign capital participation. Construction of the factory started in 1957, trial production in 1958 and commercial production in 1959; the first profits were made in 1961 when the output amounted to 1,670,000 pairs of shoes. Exports 300,000 to 500,000 pairs per annum. Possibility of further specialisation.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1968 US \$)	Replace- ment value (1968 US \$)	Ave- age (Yrs.)
1 Primary process equipment (including installation cost)			
TOTAL	4,224	approx. 106	
- Process equipment	3,960	higher than original	
- Hand tools & apparatus	264		
- Cost of installation	264	original purchase value	
2 Buildings			
TOTAL	1,663	3,300	
- Primary industrial buildings (total floor space: ... m ²)	1,663	3,300	
- Auxiliary buildings			
- Warehouses			
- Office administration buildings			
- Housing			
3 Auxiliary facilities (excl. buildings)			
TOTAL	1,254	..	
- Internal power equipment	792	..	
- Laboratory facilities	..	..
- Means of transportation	132	..	
- Office equipment	330	..	
TOTAL PHYSICAL FIXED ASSETS (including land):	7,141	..	
4 Other fixed capital assets			
TOTAL	792	..	
- Land (total acreage: 50,000 m ²)	317	..	
- Land improvements	..	..
- Others	475	..	

H. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1968 monthly average)

	US\$	US\$	US\$	US\$	US\$	US\$
1. Local non operatives						
- Managers	198	-	924			
- Engineers	-	-	-			
- Technicians	-	-	-			
- Accountants	92	-	396			
- Sales officers	132	-	264			
- Clerks and typists	132	-	264			
2. Local operatives						
- Supervisors						119
- Foremen						-
- Skilled operatives						-
- Machine operators						3 *)
- Craftsmen		198	-	330		
- Truck drivers				132		
- Unskilled operatives				3 *)		
- Other full-time operatives				-		
- Part-time operatives				-		
3. Foreign employees						
- Managerial staff	462	-	..			
- Technical staff	462	-	..			
- Other skilled operatives	-	-	-			
- Unskilled operatives	-	-	-			

*) per day

*) Details of process equipment and capacity of primary operative shops are given on Page three (Section V.B.1).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	fair
	local and city	excellent
UTILITIES:	electricity	excellent
	water	excellent
	gas	-
COMMUNITY:	residence	excellent
	health and recreation	excellent
	education	excellent
Own Welfare Facilities:	-	-

IV. MANNING TABLE

Number of persons

(1968 average)

	Total	A	B	C	D	E	F	G
ALL SHOPS & UNITS:	2,941	17	1,511	200	1,349	-	-	-
1. Primary operative shops	2,029	80	1,949	-	-	-	-	-
- All shops	2,029	80	1,949	80	1,949	80	80	80

*) 1,949 is the figure for the annual cumulative total of which 200 worked only part of the year.

III. INVENTORIES

(End of 1968)

	Actual value (1968 US \$)	Number of months
Inventories	5,927	
TOTAL:	5,927	
- Production materials	1,795	
- Other input materials	132	
- Work-in-process	172	
- Finished products	3,822	

(See Section XIII - Liquid assets and Desired working capital).

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	-	-
Actual hours/year	2,352	-	-
Overtime days/year:	294	-	-
70% of operatives work one or two hours overtime, when needed			

3. Auxiliary non-operative units

	780	780	-	-	-	-
- Production management	55	55	-	-	-	-
- Research & development	-	-	-	-	-	-
- Sales unit	484	484	-	-	-	-
- Accounting and data processing	217	217	-	-	-	-
- General administration	21	21	-	-	-	-
- Others	3	3	-	-	-	-

V. ANNUAL PRODUCTION

(1967)		Yr. of first prod.	Quantity produced Unit	Avg. unit price on factory gate	Total ex-plant value (US \$) 1000 US \$
Products for group of products					
Metal furniture:					
Deck-chairs	1945	pieces	29,578	5.41	160
Easy chairs	"	"	37,109	7.27	271
Chairs	"	"	3,998	7.51	30
Stools	"	"	6,333	2.61	17
Bonheur	"	"	1,390	19.35	27
Tables	"	"	19,729	11.09	219
Beds	1938	"	9,780	21.93	214
Swinging garden seats	1945	"	1,259	27.54	35
Ski-bobs	1947	"	500	21.05	11
Wooden furniture:					
Foldaway-beds, couches, bedside tables	{ 1947	"	4,509	33.99	153
TOTAL VALUE OF PRODUCTION:					1,137

VI. VALUE ADDED

(1967)		Total value 1000 US \$
1. Annual wages & salaries		
- Operative workers (129 persons)	208	100
- Non-operative workers (40 persons)	92	
2. Other payments for employees		68
3. Annual depreciation		24
- Machinery & equipment	7	
- Buildings & other facilities	17	
- Non-physical capital assets	-	
4. Rents paid (for storage)		5
5. Interest & royalties		19
6. Sales tax		48
7. Other indirect business taxes (*)		3
8. (-) Subsidies		-
9. Corporate income before tax		80
(*) Property tax, motor tax, transport tax, fees and stamps.		
TOTAL VALUE ADDED:		547

DESCRIPTION OF MAJOR PRODUCTS:

Patented folding bed: Very light, easily storable, very suitable for mobile mass accommodations, can also be delivered as tropical bed, steel-tube, enamel baked, mosquito-net holder, sinking wire mattress.
 Steel-tube and "room-saving" beds: single or bunks; with or without board, wire mattress and rollers.
 Furniture and equipment for restaurants, gardens, terraces, and camping. Steel-tube, enamel baked, easily storable.
 Patented deck-chairs: Folding chair of chromatic steel-tube, PVC cord, smallest folding space.
 Couches: Can immediately be changed into beds. Plywood, PVC-mattress.

All products are produced in series or single.

Unit packing in cartboards or boxes.

Terms of delivery: Small orders can be delivered at once; large orders within 4 - 6 weeks.

MARKET ASPECTS:

Re-sales:	Steel furniture, upholstering and mattresses. Turnover amounts to 10% of total sales.
Consumers of products: Wholesalers, hotels, youth hostels, hospitals, army, households.	
Sales organization:	Products are sold to wholesalers and final consumers by own sales department of the central office. Retail sales are handled by 3 stores. The establishment works to order because of the wide range of the product-mix.
Extent of the market:	90% of the total turnover results from own products and 10% from re-sales. 72% of the company's products is sold to wholesalers and hotels. 28% is sold to final consumers.
Share in the domestic market:	About 6% of the market for steel furniture.
Export price policy:	Export prices are fixed at manufacturing costs, since domestic prices ensure a reasonable profit. Manufacturing cost prices cover fixed and variable costs as well as a small profit.
Competition:	All products are of superior quality and medium-priced which accounts for the competitiveness of the company.

EXPORT:

Total annual export: US \$ 95,000.

Major products	To Western Europe	To Eastern Europe	To (*) Developing countries
Folding and "room saving" beds	66.6%	-	33.4%

(*) Middle and Far East.

GOVERNMENTAL POLICIES:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under V.I.V. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)		Quantity consumed Unit	Amount import value	Total consumption value (US \$) 1000 US \$
1. Energy and water				
TO T/A:				29
- Electricity	000 kWh	317,800		10
- Fuel oil	t	190		6
- Petrol-diesel oil	t	50		6
- Dissolved acetylene and oxygen		..		4
- Gas	000 m³	80		2
- Water	000 m³	10		1
2. Production materials				
TO T/A:				450
- Tubes	t	847		115
- Flat, angle and round iron	t	507		95
- Textiles	000 m	68		35
- Components, accessory material for metal furniture		..		90
- Plastic material	000 m	1,981		42
- Matchwood	t	147		19
- Plywood	t	9		28
- Sawn timber	t	24		10
- Components - accessory material for wooden furniture		..		16

3. Other materials & supplies

TOTAL:	
- Packaging material (cartboards and other material)	20
- Parts, supplies & services	14
- Other materials & supplies	15
	10

4. Business services purchased

TOTAL:	
- Transportation, storage & insurance	20
- Communication, advertising & other business services	20

5. Work performed by subcontractors

TOTAL:	
	12

TOTAL VALUE OF CONSUMPTION:

590

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services	
1. Engineering study	3. Technical and managerial personnel
2. Financial assistance	4. Industrial training
3. Industrial services	5. Technical consultancy
4. Equipment supply,	6. Technical assistance
machineries & maintenance	7. Technical consultancy

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project
8				There is special interest to export various kinds of steel-tube beds to tropical and subtropical areas.

9

The company is willing to employ foreign workers in the future.

XII. SUPPLEMENTS & NOTES

Depreciation policy:

Normally the straight-line method is applied to the original purchase value. Some items, however, are depreciated at an accelerated rate.

Contract and commission work:

Subcontractors performed commission work on mattresses, cushions and upholstered parts of seats. Total commissions paid amounted to US \$ 17,000 annually. The work is based on short-term agreements.

Recruitment in the past:

Lack of skilled workers could not yet be solved completely.

Inventory policies:

On an average the value of finished products in stock amounts to 17% of the total value of production. This high ratio is due to the fact that the supplying steel mill delivers the annual demand of tubes only once a year.

Major Products: Cardboard boxes and paper bags. Capable of producing annually 700 t on 3-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1962, no participation of foreign capital.

I. FIXED CAPITAL ASSETS

(End of 1965)	Year of installation	Orig. purchase value 1000 US \$	Replacement value 1000 US \$	(*)
1. Primary process equipment				
TOTAL		140	..	
- Process equipment	1962/64	137	123	
- Hand tools & apparatuses		5.5	..	
- Cost of installation		incl.	..	
2. Primary industrial building		38	..	
TOTAL		38	..	
(total floor space: 120 m ²)		35	..	
3. Auxiliary facilities		16	..	
TOTAL		16	..	
- Water, steam, electricity, cooling & storing		7	..	
- Transportation facilities		..	..
- Administrative facilities		1	..	
- Laboratory facilities		..	..
TOTAL PHYSICAL FIXED CAPITAL ASSETS		194	..	
Including land:		194	..	
4. Other fixed capital assets		12	..	
TOTAL:		12	..	
- Land (total acreage: 8/10 m ²)		12	..	
DETAIL OF PROCESS EQUIPMENT (in \$)	Supplier country	Year of installation	Orig. purchase value 1000 US \$	Replacement value 1000 US \$
- Shear	USA	1962	2	2
- Printing machines	FR/Germ.	1962/63	34	30
- Extruder	USA	1962	11	10
- Paraffining machine	USA	1962	17	16
- Bending machines	FR/Germ.	1962/64	53	47
- Compressor	USA	1962	3	3
- Winches	USA	1962	2	2
- Auxiliary equipment	FR/Germ.	1962/63	19	13

HISTORY OF INVESTMENT:

Construction of the factory started in 1962. The first trial as well as commercial production started in 1964. The following investments for expansion purposes were made: (in US \$ 000)

1963 approx.	90	production of foiling boxes
1964 "	80	production of bags
1966 "	178	new building and additional equipment

(*) "Replacement value" in this case stands for "re-sale value" rather than the purchase value of new functional equivalents.

CAPACITY POWER: Process equipment: Electric motor	Generating equipment: Installed capacity	-	EVA
80 kW			

INTERNAL CONDITIONS:

Transport: Long distance and local area, excellent.

Utilities: Electricity, excellent; water, fair.

Community: Residential, health and recreational, educational, all fctr.

II. INVENTORIES AND WORKING CAPITAL

(End of 1965)		In 000 US \$	
1. Inventories	Avg. value	2 Liquid assets	Avg. value
TOTAL	37	TOTAL	22
- Production materials	17	- Cash (hand/bank)	1
- Other input materials	-	- Market, sec. & bonds	-
- Work-in-process	12	- Short-term investment	-
- Finished products	8	- Prepaid expenses	-
		- Accounts receivable	21
3. Desired working capital	Number of months	Value	
TOTAL	63		
- Production materials	2	31	
- Other input materials	2	2	
- Finished products	2	20	
- Wages & salaries	2	10	
- Other special items	-	-	

III. MANNING TABLE

(1965 average)	Number of persons		A: Number of persons B: Number of hours	
	Total	Per shift	1st shift A+B	2nd shift A+B
ALL SHOPS & UNITS:	94		36	29
1. Primary operative shops	71		20	4
- Cutting and extrusion	9	2	1	3
- Printing	27	9	1	9
- Paraffining	14	4	1	5
- Bending and rubberizing	21	6	1	7
2. Auxiliary operative units	9		4	2
- Repair and maintenance	3	1	1	1
- Mechanical shop	-	-	-	-
- Utilities control	-	-	-	-
- Product & material storage	3	1	1	1
- Off-site transport	1	1	-	-
- Guards, cleaners, etc.	2	1	-	1
3. Auxiliary non-operative units	14		8	3
- Production management	2	1	1	-
- Research & development	-	-	-	-
- Sales unit	1	1	-	-
- General administration	2	2	-	-
- Others	9	4	2	3

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day	7	hours	Normal days/year	262	days
Actual hours/year	1,834	hours			

CAPACITY OF OPERATIVE SHOPS:

IV. ANNUAL PRODUCTION

(1965)
Products by group of products

	No. of employees	Quantity produced	Value produced	Total production value	Value produced US \$
	No. of employees	Units	Units	US \$	US \$
Cardboard boxes and paper bags	1963	1	667	700	600
TOTAL VALUE OF PRODUCTION				400	400

REPORT:

Bags and boxes are exported at US \$ 600,-/t. Exports to member countries of the Central American Common Market are facilitated.

CAPACITY UTILIZATION:

The existing capacity could be utilized up to 95% in 1965 due to sufficient demand. In 1966 additional production space and equipment could be acquired to increase the capacity. 11 more persons were employed.

V. ANNUAL CONSUMPTION

(1965)

1. Energy and water

	No. of employees	Quantity consumed	Total consumed	Total value	Value consumed US \$
POWER				7	7
- Electricity	000 kwh	324		5	
- Water	000 m³	720		2	

2. Production materials

	No. of employees	Quantity consumed	per gross value kg + litres	Total	Total value
- Cardboard and Bristol board	1	670	100 0.15 15	184	
- Ink	kg	1,091	100 0.03 5	12	
- Paraffin	kg	2,180	100 0.03 10	2	
- Oil	gallons	600	100 0.10 10	4	

VI. VALUE ADDED

(1965)

	Value added US \$
1. Wages & salaries	
- Employed in direct production (60 persons)	40
- Other employees (22 persons)	22
2. Other payments for employees	2
3. Annual depreciation	18
4. Rentals paid	-
5. Interest & royalties	8
6. Salaries	-
7. Other Ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	64

154 thousands

VII. MONTHLY EARNING RATES

(End of 1965)

	No. of employees	Average earning US \$
1. Local non-operatives		
TOTAL	4	285
- Managers	1	600
- Engineers	-	-
- Technicians	-	-
- Accountants	1	180
- Sales officers	1	280
- Other professional staff	-	-
- Clerks & typists	1	80
2. Local operatives		
TOTAL	17	60
- Supervisors	1	400
- Peons	-	-
- Machine operators	60	56
- Craftsmen	1	100
- Truck drivers	1	80
- Other full-time operatives	11	48
- Utilised & part-time operatives	1	48
- Other specific category	2	52
3. Foreign employees		
TOTAL	1	600
- Engineers, trainers and other technical control staff	1	600

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group

	No. of employees	No. of units	No. of machines	No. of cars	No. of trucks	No. of motor vehicles	HSGC:
1. All groups by industry group							

No data available.

	No. of employees	No. of units	No. of machines	No. of cars	No. of trucks	No. of motor vehicles
2. All groups by industry group						

IX. SUPPLEMENTARY

Governmental policies:

Any duties on imported production materials should be lowered if not even abolished to decrease costs of production.

Major Product: Cellulose (from cane bagasse). Capable of producing annually 3,200 t of cellulose on 3-shift operation.

Reporting Unit: A small enterprise, founded in 1958; privately owned; no participation of foreign capital.

I. FIXED CAPITAL ASSETS

(End of 1966)

1. Primary process equipment

	Year of purchase	Org. value	Depreciation value
		US \$ 10,000	US \$ 10,000
TOTAL		326.0	513.6
- Process equipment		278.0	448.0
- Hand tools & apparatuses		8.0	9.6
- Cost of installation		40.0	56.0

2. Primary industrial building

	Year of purchase	Org. value	Depreciation value
		US \$ 10,000	US \$ 10,000
TOTAL		16.0	20.0
(total floor space: 4,000 m ²)		16.0	20.0

3. Auxiliary facilities

	Year of purchase	Org. value	Depreciation value
		US \$ 10,000	US \$ 10,000
TOTAL		45.6	58.0
- Water, steam, electricity, cooling & storing		40.0	48.0
- Transportation facilities		4.0	9.0
- Administrative facilities		1.6	2.0
- Laboratory facilities		-	-

TOTAL PHYSICAL FIXED CAPITAL ASSETS

Including land: 387.6 591.6

4. Other fixed capital assets

	Year of purchase	Org. value	Depreciation value
		US \$ 10,000	US \$ 10,000
TOTAL		96.0	96.0
- Land (total acreage: 12,000 m ²)		96.0	96.0

DETAIL OF PROCESS EQUIPMENT (in %)

	Supplier country	Year of purchase	Org. value	Depreciation value
			US \$ 10,000	US \$ 10,000
- Transporters	Mexico	1960	16.0	24.0
- Digestors	"	1957/66	40.0	64.0
- Washing equipment	U.S.A.	1961/66	24.0	36.0
- Bleaching equipment	"	1966	48.0	80.0
- Tanks	Mexico	1958	32.0	40.0
- Dyeing equipment	"	1961	54.0	80.0
- Purification equipment	U.S.A.	1961	74.0	92.0
- Others	Mexico	1960/66	40.0	48.0

HISTORY OF INVESTMENT:

The factory was constructed in 1956. Trial production started in 1957, commercial production in 1958. The first profits were made in 1961.

In 1961, approximately US \$ 128,000 were invested for the renovation of digestors, washing and bleaching equipment. In 1967, another approximately US \$ 80,000 were invested for the bleaching and washing equipment.

CAPACITY POWER:

Process equipment: 800 m³ Generating equipment: installed capacity: - BVA

EXTERNAL CONDITIONS:

Transport: Long distance, excellent; local area, fair.

Utilities: Electricity, excellent; water, poor.

Community: Residential, fair; health and recreational, poor; educational, fair.

II. INVENTORIES AND WORKING CAPITAL

In 1966 US \$

(End of 1966)

1. Inventories

	Amount value	2. Liquid assets
		US \$ 10,000
TOTAL	36.8	40.0
- Production materials	24.0	- Cash (hand/bank) 8.0
- Other input materials	8.0	- Market. sec. & bonds -
- Work-in-process	2.4	- Short-term investment 40.0
- Finished products	2.4	- Prepaid expenses -
		- Accounts receivable -

3. Desired working capital

	Amount value
	US \$ 10,000
TOTAL	154.0
- Production materials	3.5 40.0
- Other input materials	4.0 24.0
- Finished products	1.0 48.0
- Wages & salaries	1.0 16.0
- Other special items	.. 56.0

III. EMPLOYEES

Number of persons

(1966 average)

	Total	1st shift	2nd shift	3rd shift
	A	B	A+B	A+B
ALL SHOPS & UNITS:	40	18	11	11
1. Primary operating shops	27	9	9	9
- Digestion department	9	3	-	3
- Bleaching department	3	1	-	1
- Washing department	9	3	-	3
- Drying department	6	2	-	2

2. Auxiliary operating units

	9	5	2	2
	A	B	A+B	A+B
- Repair and maintenance	2	2	-	-
- Mechanical shop	-	-	-	-
- Utility control	3	1	1	1
- Product & material storage	1	1	-	-
- Off-site transport	-	-	-	-
- Guards, cleaners, etc.	3	1	1	1

3. Auxiliary non-operating units

	4	4	-	-
	A	B	A+B	A+B
- Production management	2	2	-	-
- Research & development	-	-	-	-
- Sales unit	-	-	-	-
- General administration	2	2	-	-

EMPLOYEE TIME PER OPERATIVE WORKER:

Normal overtime: 8 hours Normal double: 310 days

Actual overtime: 2400 hours

CAPACITY OF OPERATIVE SHIFTS:

The capacity of the bleaching department is 1,200 t/year; bleaching in chlorine-hydrochlorite. No automation.

IV. ANNUAL PRODUCTION

(1966)

Products by group of products

- Cellulose of cane bagasse (bleached)

Wt. of raw prod.	Quantity produced	Quality control	Unit price in factory	Total production value	Value US \$ 0
..	tonne	2,840	\$,700	196	11,400

TOTAL VALUE OF PRODUCTION: 11,400

* Not including sales tax

Competitive imports:

The c.i.f. price of imported cellulose of cane bagasse without tariff is US \$ 130/t. 40% duty is charged on imports.

Imports: NoneCapacity utilization:

The rate of utilization of the bleaching department is 88%.

VI. VALUE ADDED

(1966)

	Value US \$ 0
1. Wages & salaries	
- Employees in direct production	11,400
(- 27 persons)	11,400
- Other employees	11,400
(- 11 persons)	11,400
2. Other payments for employees	11,400
3. Annual depreciation	48,000
4. Rentals paid	1,400
5. Interest	10,000
6. Sales tax (not levied on items)	1,400
7. Other ind. bus. taxes	1,400
8. (-) Subsidies	1,400
9. Corporate income before tax	11,400

Value US \$ 0

11,400

VII. INCOME EARNING RATES

(End of 1966)

No. of pers.	Average earning US \$ 0
1. Local non-operatives	
TOTAL	170
- Managers	100
- Clerks	1
- Technicians	1
- Accountants	1
- Sales officers	1
- Other professional staff	1
- Clerks & typists	1
2. Local operatives	
TOTAL	11
- Supervisors	10
- Peons	1
- Machine operators	4
- Craftsmen	1
- Truck drivers	1
- Other full-time operatives	1
- Unskilled & part-time operatives	6
3. Foreign employees	
TOTAL	-

No. of pers.	Average earning US \$ 0
1. Other materials & supplies	
TOTAL	29,600
- Packaging (cardboard)	6,400
- Repair & maintenance (filters and fabrics)	22,400
- Non-factor service inputs	0,800
4. Business services purchased	
TOTAL	24,000
- Transport, storage & insurance	44,000
- Communication, advertisements, etc.	0,800
5. Work performed by sub-contractors	
TOTAL	-

315,200

Value US \$ 0

V. ANNUAL CONSUMPTIONS

(1966)

1. Energy and water

	Quantity consumed	Unit	Quantity consumed	Unit	Total
1. Energy and water					88,000
TOTAL					88,000
- Electricity	000 Kwh	1,500		36,000	

- Liquid fuels and lubricants

	Quantity consumed	Unit	Quantity consumed	Unit	Total
TOTAL	000 l	3,410		49,600	

- Water

	Quantity consumed	Unit	Quantity consumed	Unit	Total
TOTAL	..			2,400	

	Quantity consumed	Unit	Quantity consumed	Unit	Total
2. Production materials					112,800
TOTAL					112,800
- Cane bagasse	t	18,000		40,800	

	Quantity consumed	Unit	Quantity consumed	Unit	Total
- Cosmetic soda	"	820		107,200	
- Chlorine (gms)	"	350		40,800	
- Other chemical products	"	..		24,000	

	Quantity consumed	Unit	Quantity consumed	Unit	Total
3. Other materials & supplies					29,600

TOTAL

29,600

Value US \$ 0

Major Products:

Newsprint - Printing paper for books. Capable of producing annually 51,000 t on a three-shift operation.

Reporting Unit:

A one-establishment enterprise, founded in 1957; public corporation; no participation of foreign capital.

I. FIXED CAPITAL ASSETS

(End of 1967)

1. Primary process equipment

	Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$
TOTAL	1958	17,840	21,040
- Process equipment		17,000	15,200
- Hand tools & apparatuses		840	840

2 Primary industrial building

	Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$
TOTAL	1958	3,600	4,800
(total floor space: 60,000 m ²)		3,600	4,800

3 Auxiliary facilities

	Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$
TOTAL	1958	..	..
- Water, steam, electricity, cooling & storing			
- Transportation facilities			
- Administrative facilities			
- Laboratory facilities			

TOTAL PHYSICAL FIXED CAPITAL ASSETS

Including land: 21,440 25,840

4. Other fixed capital assets

	Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$
TOTAL

TOTAL

- Land (total acreage: .. m²) (Included in primary industrial building)

DETAIL OF PROCESS EQUIPMENT

	Supplier country	Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$
- Jardim	(1)			
- Chemical refiners	(3)			
- Disc refiners	(2)			
- Miami classifiers	(4)			
- Centriflume system	All			
- Pneumofiner	(1) from	1958	11,000	16,200
- Ground wood pulp mill				
- Continuous desfibrator				
- Screens	(4)			
- Cleaners	(4)			
- Hydropulper				

HISTORY OF INVESTMENT:

The factory was constructed in 1957. Trial production started in July 1959; the first commercial production in January 1960. The enterprise has to operate at a 100% level of capacity utilization in order to be profitable.

In 1964, approximately US \$ 4.3 million were invested for general expansion purposes.

CAPACITY POWER:

Process equipment:

Electric motor 20,000 kW

Generating equipment
Installed capacity

kVA

INTERNAL CONDITIONS:

Transport: Long distance and railroads, fair.

Utilities: Electricity, water, gas, fair.

Community: Residential, health and recreational, educational, fair.

H. INVENTORIES AND WORKING CAPITAL

In 1000 US \$

(End of 1967)

1. Inventories

TOTAL 1,040

- Production materials	560
- Other input materials	240
- Work-in-process	-
- Finished products	240

2. Liquid assets

TOTAL 1,072

- Cash (hand/bank)	80
- Market, sec. & bonds	20
- Short-term investment	160
- Prepaid expenses	12
- Accounts receivable	800

3. Desired working capital

Number of months 12

	12
TOTAL	2,880
- Production materials	720
- Other input materials	240
- Finished products	320
- Wages & salaries	120
- Other special items	1,280

III. MANNING TABLE

Number of persons

A = Machine operators
B = Other operators

	(1967 average)		1st shift		2nd shift		3rd shift	
	Total	A	B	A + B	1	2	3	A + B
ALL SHOPS & UNITS:	421	264	92	356	13	55	38	65
1. Primary operative shops	190	55	13	68	5	13	34	5
- Yard and handling of wood	35	15	-	10	-	10	-	-
- Preparation of pulp	18	16	-	11	-	11	-	-
- Paper-making machine	31	13	-	9	-	9	-	-
- Instruments and control	23	-	13	-	5	-	5	-
- Finishing and shipment	23	11	-	8	-	7	-	-

2. Auxiliary operative units

	214	145	45	24
- Repair and maintenance	91	74	10	7
- Mechanical shop	-	-	-	-
- Utilities control	14	8	3	3
- Product & material storage	12	6	3	3
- Off-site transport	20	20	-	-
- Guards, cleaners, etc.	18	4	7	7
- Others	99	33	22	4

3. Auxiliary non-operative units

	57	51	4	2
- Production management	4	4	-	-
- Research & development	3	3	-	-
- Sales unit	-	-	-	-
- General administration	50	44	4	2

WORKING TIME PER OPERATIVE WORKER:Normal hours/day 6 1/4 hours Normal days/year 305 days
Actual hours/year 1,967 hours**CAPACITY OF OPERATIVE SHOPS:**

The installed capacities of different departments are considered to be in equilibrium. Utilization rate of process capacity is 75%. Moderately automated.

IV. ANNUAL PRODUCTION

(1967)		Quantity produced		Nominal capacity output	Unit price on factory (US \$)	Total production value (M\$ US \$)
Products or group of products	Yr. of first prod.	Unit	Output			
- Newsprint	1960	ton	37,150	145.4	5,403	
- Printing paper for books	1960	"	11,700	109.0	1,245	
				TOTAL VALUE OF PRODUCTION:		7,648

COMPETING IMPORTS:

C.i.f. price of imported newsprint without tariff is US \$ 145.4; that of printing paper for books is US \$ 104 per t. On printing paper for books, import duty of US \$ 66 per t is charged. No import duty on newsprint import.

EXPORTS: None**CAPACITY OUTPUT:**

The "Nominal capacity output" is based on the assumption of three-shift operation for 305 days per annum.

V. ANNUAL CONSUMPTION

(1967)		Quantity consumed		Total consumption value (M\$ US \$)	
	Unit	Purchase	% Imported	Tariffless	
1. Energy and water					
TOTAL					813
- Electricity	000 Kwh	28,100	-	680	
- Petroleum	000 l	11,500	-	120	
- Water	000 m³	1,017	-	13	

2. Production materials

TOTAL				3,598	
		Unit	Purchase	% free (LAPTA)	Total
- Semi-white sulfate pulp (20%)	t	9,750	100	free	1,326
- Mechanic wood pulp (80%)	t	40,000	-	(LAPTA)	-
- Wood	m³	86,100	-		1,680
- Chemicals		--			592

* 50% of parts and supplies for equipment maintenance is imported, subject to 17% import tariff.

VI. VALUE ADDED

(1967)		Value (M\$ US \$)
1. Wages & salaries		
- Employees in direct production (295 persons)		504
- Other employees (126 persons)		540
2. Other payments for employees		75.7
3. Annual depreciation		1,100
4. Rentals paid		2
5. Interest		1,000
6. Sales tax (not incl. in TOTAL)		(144)
7. Other Ind. bus. taxes		328
8. (-) Subsidies		-
9. Corporate income before tax		1,400
		3,152

VII. MONTHLY EARNING RATES

No. of employees	Average earning rates (US \$)
(End of 1967)	
1. Local non-operatives	
TOTAL	41
- Managers	1,280
- Engineers	560
- Technicians	400
- Accountants	400
- Sales managers	400
- Other professional staff	-
- Clerks & typists	160
2. Local operatives	
TOTAL	13
- Supervisors	360
- Foremen	360
- Machine operators	240
- Craftsmen	340
- Truck drivers	40
- Other full-time operatives	174
- Unskilled & part-time operatives	-
3. Foreign employees	
TOTAL	2
- Managers	1,600
- Engineers, trainers and other tech. control staff	1,440
3. Other materials & supplies	
TOTAL	285
- Packaging	168
- Repair & maintenance *	109
- Non-factor service inputs	8
4. Business services purchased	
TOTAL	-
- Transport, storage & insurance	
- Communication, advertisements, etc.	
5. Work performed by sub-contractors	
TOTAL	-
	4,696

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1967)		Industry group: Manufacture of pulp, paper and paperboard (ISIC 271)			
1. No. groups by number of firms	Number of firms	Av. no. of emp.	Av. gross prod. (M\$ US \$)	Av. exp. gross prod. (M\$ US \$)	Av. exp. net prod. (M\$ US \$)
Up to 50	95	1,503	813	4,114	66
51 - 100	18	1,204	1,047	5,656	114
101 - 250	17	2,831	1,662	12,106	32
over 250	19	11,463	1,998	13,673	122
TOTAL	149	17,001	1,770	11,999	122
2. No. groups by sales of annual production (M\$ US \$)					
Up to 40	62	554	519	1,752	95
40 - 240	39	1,355	775	2,920	124
240 - 1,600	22	2,313	1,065	5,973	32
over 1,600	28	12,783	2,056	14,893	122
TOTAL	151	17,005	1,769	11,997	122

* Capital is defined as physical capital assets.

XI. SUPPLEMENTS**CORPORATE PROFIT:**

The enterprise declares that even the 100% capacity operation does not prove profitable. The high financial costs are one of the reasons.

GOVERNMENT POLICIES:

Federal price policy measures affect profitability of enterprise. Products are sold at international prices level. No taxes to be paid for newsprint coming from LAPTA countries.

FUTURE PLANS:

In 1968 approximately US \$ 560,000 will be invested for general expansion purposes.

Major Products: Paperbag and paper bags, cartons and prints. Partly 2-shift operation. Total capacity output amounts to about US \$ 4.6 million annually.

Reporting Unit: A 2-establishment enterprise, privately owned, founded in 1968. One establishment processes paper, the other cartons. Altogether 400 employees. Largest enterprise of its industry in the country, among the 5 largest in Europe. Supplies establishments of various industries with its products; exports; partly licenced production. Although the company is rather old, its process equipment has an average age of 4.5 years only.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value 1960 US \$	Replace- ment value 1960 US \$	Avg age (Yrs.)
1 Primary process equipment (including installation cost)			
TOTAL	2,746	4,442	
- Process equipment	2,249	3,997	4.7
- Hand tools & apparatus	697	445	**
2 Buildings	1,741	3,136	
TOTAL			
- Primary industrial buildings (**)	1,521	2,186	**
(total floor space: 10,267 m ²)			
- Auxiliary buildings	16	17	15
- Warehouses	142	150	15
- Office administration buildings	33	34	7
- Housing	60	42	5
3 Auxiliary facilities (excl buildings)	146	223	
TOTAL			
- Internal power equipment			
- Laboratory facilities			
- Means of transportation	29	25	2.5
- Office equipment	124	248	10
TOTAL PHYSICAL FIXED ASSETS (excluding land)	4,833	7,420	
4 Other fixed capital assets			
TOTAL	333	478	
- Land (total acreage: 17.34 m ²)	343	363	
- Land improvements (t.scr. 13,464 m ²)	40	50	
- Others	14	15	

(**) 50% of the primary industrial buildings is 4 years old, 49% is 15 years old and 1% is 100 years old.

NOTE: Details of process equipment and capacity of primary operative shops are given in Page three, Section III(B).

EXTERNAL CONDITIONS:

Transport	external long distance	Fair
	internal long distance	Excellent
	local and city	"

Utilities	electricity	Fair
	water	poor (**)
	gas	insufficient

Community	residence	Insignificant
	health and recreation	"
	education	"

Own Welfare Facilities: Construction of a canteen is envisaged for 1970.

(*) Since the enterprise is expanding continuously, new plant will have to be installed.

III. INVENTORIES

(End of 1967)

	Actual value 1960 US \$	Number of months
Inventories	19	
TOTAL		
- Production materials	5	1.5
- Other input materials	1	1
- Work-in-process	11	1
- Finished products	12	1.5

WORKING TIME PER OPERATIVE WORKER

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	7.5	7	hours
Actual hours/year	2,300	2,150	2,000	hours
Actual days/year	295	290	285	days

H. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1967 monthly average)

	40-50 hrs	100- 120 hrs	140- 160 hrs	160- 240 hrs	240- 360 hrs	360- 480 hrs
	US \$	US \$	US \$	US \$	US \$	US \$

1. Local non-operatives

- Managers	+	+	+	+	+	1
- Engineers	+	+	+	+	+	1
- Technicians	+	+	+	+	+	21
- Accountants	+	+	+	3	1	-
- Sales officers	+	+	+	5	2	-
- Clerks and typists	+	+	2	6	7	1
- Others (non-operatives of auxiliary shops)	+	+	+	7	5	-

2. Local operatives

- Supervisors	+	+	+	+	+	-
- Foremen	+	+	+	+	7	-
- Skilled operatives	+	+	+	+	-	-
- Machine operators (*)	+	110	117	-	-	-
- Craftsmen	+	-	-	59	-	-
- Truck drivers	+	-	-	-	-	-
- Unskilled operatives	+	16	-	-	-	-
- Other full-time operatives	+	-	-	40	67	-
- Part-time operatives	+	-	-	-	-	-

3. Foreign employees

- Managerial staff	+	+	+	+	1	-
- Technical staff	+	+	+	+	-	-
- Other skilled operatives(**)	+	1	6	-	-	-
- Unskilled operatives	+	0	-	-	-	-

(*) Including skilled operatives

(**) Including foreign foremen

IV. MANUFACTURING TABLE

Number of persons

	Total	1st shift	2nd shift	3rd shift
	437	130	138	89

All Shops & Units: 437

	40-50 hrs	100- 120 hrs	140- 160 hrs	160- 240 hrs	240- 360 hrs	360- 480 hrs
1. Primary operative shop	408	17	122	85	79	98
- Offset photo	8	3	5	-	-	-
- Litho	19	1	18	-	-	-
- Proofing	5	-	3	-	2	-
- Mounting	7	1	6	-	1	-
- Copy	11	1	8	-	2	-
- Offset-presses (1, 2, 4-colour)	109	3	27	-	79	-
- Scanner	1	-	1	-	-	-
- Gravure photo	5	1	4	-	-	-
- Retouching	16	2	14	-	-	-
- Rotating department	10	1	6	-	3	-
- Galvanising dept.	2	-	2	-	-	-
- Sheet-fed gravure	4	-	2	-	2	-
- Rotation and letter press	23	1	12	-	10	-
- Finishing department (*)	101	1	-	50	-	50
2. Auxiliary operative units	35	1	-	12	-	-
- Repair & maintenance	15	3	12	-	-	-
- Mechanical shop	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-
- Utilities control	-	-	-	-	-	-
- Product & material storage	14	1	11	-	-	-
- Off-site transport	-	-	-	-	-	-
- Guards, cleaners, etc.	3	-	3	-	-	-
- Others	1	1	-	-	-	-
3. Auxiliary non-operative units	47	47	-	-	-	-
- Production management	1	1	-	-	-	-
- Research & development	-	-	-	-	-	-
- Sales unit	3	3	-	-	-	-
- Accounting	3	3	-	-	-	-
- General administration	29	29	-	-	-	-
(*) - Box making department	87	2	15	35	-	35

V. ANIMAL PRESERVATION

TOTAL VALUE OF PRODUCTION: 10,450

VI. VALUE ADDED

	Total
	Value
	1968 US \$
1. Annual wages & salaries	2,220
- Operative workers	1,942
(1,794 <i>grossed</i>)	
- Non-operative workers	1,148
(992 <i>grossed</i>)	
2. Other payments for employees	-
3. Annual depreciation	-
- Machinery & equipment	477
- Buildings & other facilities	153
- Non-physical capital assets	-
4. Rentals paid	-
5. Interest & royalties	628
6. Sales tax	-
7. Other indirect business taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	(-) 152

TOTAL VALUE ADDED: \$510

DESCRIPTION OF IMAGE PROCESSOR

Leather, rubber, PVC and canvas shoes. Sole - heel hot water treated.

ANSWER

Components of products:

Private persons, police, banks and other firms

False accusations

Our total share (100)

Patent of Attorney

Potenciação e despotenciação

8. *Conclusions*

100

• 100 •

The enterprise hopes to increase exports up to 20% of total production within the next

[View Details](#)

Competition with imports

REFERENCES

Normalisation of production materials:
Rubber is imported from South East Asia, PVC, synthetic rubber, and Nylons from France, Japan, P.R.Germany, and USA. Lubricants and solvents are imported from France.

Export:

Total annual export approx. US \$924,000.

<u>High products</u>	<u>To Wholes ers</u>	<u>To Gros ers</u>	<u>To Retail ers</u>
Leather shoes	10%	90%	-
Other shoes	10%	90%	-

The shoes were exported at a unit price of US \$ 3.3 per pair.

WILSON LIBRARY CATALOGUE

(1966)	Quantity consumed	%	Average price per unit	Total consumption value RSR 10.00
	Unit	Quantity	Import	
1. Energy and water				
TOTAL:				161
- Electricity	000 kWh.	2,600		95
- Liquid fuels and lubricants	000 l	5,000		66
2. Production materials				
TOTAL:				5,724
- Rubber	t	4,000	100	1,502
- Leather	t	16,000	80	4,282
- PVC				
- B.O.P.				
- Textile				
- Nylon				
- Cement and others				
- Chemicals				

	Total
3. Other materials & supplies	
TOTAL:	594
- Packaging material (Cardboard, etc.)	196
- Parts, supplies & services	198
- Other materials & supplies	-
4. Business services purchased	
TOTAL:	361
- Transportation, storage & insurance	182
- Computer services	182

REGULATORY COMMISSION

V. ANIMAL PRODUCTION

(1967)	Wt in kg. per unit	Quantity produced Unit	Av. unit price in country US \$	Total output value 1,000 US \$
Products for group of production				
Bags:	..	1000 pcs	712,000	9.3
Imitation parchment paper, coated and uncoated				194
Cartons for:	..	1000 pcs	939,700	1.5
Candies, detergents, food, sweets, cigarettes				1,433
Prints:	1968	..	..	1,666
Catalogues, picture-books, folders, labels, newspaper covers				
Revenue from commission work			915	
Other revenue			7	
TOTAL VALUE OF PRODUCTION:			4,215	1,000 US \$

VI. VALUE ADDED

(1967)	Total value 1,000 US \$
1. Annual wages & salaries	
- Operative workers	800
1. 423 annual	
- Non-operative workers	200
1. 68 annual	
2. Other payments for employees	
3. Annual depreciation (*)	307
- Machinery & equipment	100
- Buildings & other facilities	100
- Non-physical capital assets	107
4. Rentals paid	20
5. Interest & royalties	100
6. Sales tax	100
7. Other indirect business taxes	10
8. (-) Subsidies	7
9. Corporate income before tax	(+) 145
(*). See page 4 XIII.	
TOTAL VALUE ADDED:	1,180

DESCRIPTION OF MAJOR PRODUCTS:

All products are exclusively manufactured to order.

Bags: Made out of paper, imitation parchment, uncoated material, foil, material coated with PVC and polyethylene, printed or unprinted, heat-sealed and waterproof. Sizes: ranging from 65 x 100 mm to 115 x 167 mm. Bags for food packing must be manufactured in accordance with legal requirements. Transportability for export. Bags are packed in units as specified by the customer. Time of delivery: 4-6 weeks.

Folding boxes: Including folding boxes of various types (coated, uncoated, calendered, different kinds of cloths, etc.); candy boxes of various types; cartons for detergents, for pharmaceuticals, food, sweets, cigarettes and bottles. Sizes: ranging from 30 x 60 mm to 130 x 40 mm. Folding boxes are delivered in corrugated cardboard boxes or on pallets. For overseas exports they are packed in containers. Time of delivery: 1-2 weeks, depending on raw material supply.

Prints: Including labels, packing rings, signs, revenue stamps, catalogues, picture books, newspaper covers, advertising prints, etc. Kind of processes: offset, intaglio or typography print. Sizes: ranging from about 30 x 30 mm to 100 x 140 mm. Packagings as desired by the customer. Delivered on pallets fixed with band iron. For overseas exports pallets are wrapped in bituminized paper. Time of delivery: 2-6 weeks.

MARKET ASPECTS:

Consumers of products:

Processing industries (e.g. manufacturers of detergents, sweets, pharmaceuticals, cigarettes, food, and drinks) as well as advertising agencies, tourist offices and publishers.

Sales organization:

One central and two out of town sales offices.

Effect of the market:

Presently the enterprise serves 350 customers with 30 customers accounting for 7% of the sales. Products are sold throughout the whole country. Part of production is exported.

Share in domestic market:

Packaging: about 10 - 15%. Prints: no data available.

Competition in the market:

The reporting enterprise is able to face any foreign competition due to most modern equipment installed in the past.

VII. ANIMAL CONSUMPTION

(1967)	Quantity produced Unit	Unit	Av. unit price US \$	Total consumption value 1,000 US \$
1. Energy and water				
TOTAL:				41
- Electricity	600 mwh	1,139		34
- Fuel oil medium	l	172.5		5
- Water	600 m3	40,000		4
2. Production materials				1,660
TOTAL:				
- Paper	t	2,127	10	18
- Cardboard and board	"	3,223	10	25
- Ink	"	67	3	2
- Dyes	"	11	-	33
- Varnishes	"	70	-	90
- Dilution	"	94	-	28
- Photo material	"	-	-	39
- Adhesives and other raw material	t	16	-	27

EXPORT:

Total annual export: US \$ 11,000.

Ship routes	To Western Europe	To Eastern Europe	To Middle East
Educational prints	-	-	100%
Picture books	100%	-	-
Folding boxes, labels, candy boxes, prints	100%	-	-

Governmental policies:

The government subsidizes exports by way of applying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under 11.6. has been deducted accordingly.

3. Other materials & supplies

ITEM	270
- Packaging material (wrapping paper, wooden paper, pallets, band iron, covering and bottom boards)	10
- Parts, supplies & services	17
- Other materials & supplies	201

4. Business services purchased

ITEM	262
- Transportation, storage & insurance	141
- Communication, advertising & other business services	121

5. Work performed by administration

ITEM	-
TOTAL VALUE OF CONSUMPTION:	2,215

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (N.1.)

	Number	Original purchase value 1960 US \$	Present value 1960 US \$	Ave. age level	Remarks	Supplier country	Daily running time	Output
Single colour offset printing machines	3	81.3	120.0	5		D.R.Germany	fully utilised	3,000-5,000 sheets/hr
Two colours offset printing machines	7	213.3	433.4	10		" " "	" "	"
Four colours offset printing machines	3	302.0	372.0	4		FR.Germany	" "	"
Six colours offset printing machines	2	463.0	463.0	1		" "	12 hrs	1,000-1,200 sheets/hr
High frequency varnishing machine	1	8.4	17.4	11		Italy	6 "	up to 32 pages/folding process
High frequency folding machine	1	9.8	11.6	2				3,000-4,000 sheets/hr
Automatic stapling machine	1	22.5	29.0	3		FR.Germany	6 "	3,000-4,000 sheets/hr
Banderolling machine	1	3.5	3.5	1		" "	8 "	8,000 bags/hr
Bag sealing machine	1	6.2	9.3	4				
Sheet counting machine	1	9.0	10.8	4				
Linotype setting machine	1	13.0	17.4	5				6,000 letters/hr
High-speed cutting machines	6	60.6	74.4	7				4,000 sheets/hr
Platen press	1	11.0	43.5	3				
Poldemaster carton unfolding machine	1	3.2	5.4	4				
Automatic and semiautomatic punching and stamping press	4	263.7	344.5	6		Switzerland	16 "	punching of cartons: 2,500-4,000 sheets/hr stamping of paper: 1,500-2,500 sheets/hr

for continuation see page A/XII.

CAPACITY POWER:

Process equipment:

- electric motors 850 kW

Generating equipment:

- installed capacity - 11VA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization		C modern standard	Automation
		A more advanced	B considerably high standard		
Offset printing	Photographing - retouching - lithographing assembly - proof copy - single and multi colour printing	A	I		Printing capacity: appr. 350,000 m ² /hr
Intaglio printing	Photographing, retouching, etching, galvanizing, rotatting, rewinding	B	I		Capacity: 7,000-8,000 m/hr, 2-shift operation
Typegraphy	Applied for small editions only	A/C	I		Capacity: 9,000 sheets/hr
Finishing department	Coating, stamping, cutting, folding, stapling, etc.	A/C	II		2-shift operation
Box making department	Stamping, punching, gluing, etc.	A	III		

CAPACITY UTILIZATION:

Full-capacity output: US \$ 4,740,000 based on 1-shift operation except for the intaglio printing and finishing departments which operate 2-shifts.

Current utilization:

Major products (or processes)	Approximate %					
	Up to 30	30-50	50-70	70-80	80-90	90-100
Offset printing	x					
Intaglio printing		x				
Typegraphy			x			
Finishing department			x			
Box making department		x				

All shops are more or less fully utilized. Sometimes demand cannot be met in time. Full-capacity output can be reached without any additional investments or operations to be employed. Future plans, however, envisage expansion of plant capacity.

IX. HISTORY & PLAN

1. Performance in the past:	Total output 1960 US \$		No. of persons employed	Total output 1960 US \$
	Year:	Value		
1963		2,530	332	30
1964		2,760	351	30
1965		3,120	397	60
1966		3,770	427	90
1967		4,210	491	90
1968		4,900	511	520

2. Investments in the past:	Approximate amount 1960 US \$		Type of investment
	From 1955 to 1962	" 1963 - 1965	
	340	1,385	Land and buildings
"	74	122	Machinery and equipment
	522		Land and buildings
	301	1,471	Machinery and equipment
			Land and primary industrial buildings
			Primary industrial building and machinery

3. Future Plan:	Approximate amount 1960 US \$		Type of investment
	From 1969 to 1973	1967	
	2,515		Expansion, rationalisation and specialisation of product-mix, machinery and auxiliary facilities
			10 additional operatives and 5 non-operatives will have to be employed on the 1st shift. On the 2nd shift 20 additional auxiliary operatives will be required.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C - Confidential; these size groups are included in the underlined figures.

(1964)

Industry Paper and paperboard manufacturing mills NIMC Code: 271-1

1. Size groups by number of production units	No. of units		No. of employees					
	No. of units	No. of units	No. of employees					
up to 19	162	19	1,197	7,005	51			
20 - 29	76	3,618	1,495	6,695	49			
30 - 49	19	3,937	1,721	11,112	40			
500 - 999	1	6			6			
over 1,000	-	-	-	-	-			
TOTAL	260	8,553	1,609	9,458	44			

2. Size groups by annual value of production	No. of units		No. of employees					
	No. of units	No. of units	No. of employees					
up to 20	20	75	116	866	5,040	61		
20 - 40	40	28	159	1,188	4,663	56		
40 - 200	200	99	1,625	1,247	5,184	52		
200 - 400	400	23	934	1,392	6,781	49		
400 - 2,000	2,000	38	3,544	1,703	8,136	49		
over 2,000	7	2,175	1,890	14,181	35			
TOTAL	260	8,553	1,609	9,458	44			

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services:
- 1 Engineering study
 - 2 Financial assistance
 - 3 Industrial services
 - 4 Equipment supply, installation & maintenance
 - 5 Technical and managerial personnel
 - 6 Industrial training
 - 7 Technical consultancy
 - 8 Import and export promotion
 - 9 Administration of foreign labour

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project
1				Company reports willingness to prepare a pre-feasibility study on the creation of a graphic industry.
2				Joint venture could be possible in connection with a know-how contract.
3				Company could supply patents for folding boxes.
4				Second-hand machinery could be supplied.
6				Within the framework of a know-how contract company is willing to train photographers, retouchers, printers and mechanics for the repair and maintenance shop.
7				Trouble-shooting advisory services could be rendered.
9				Seasonal as well as permanent foreign labourers can be admitted.

XII. SUPPLEMENTS & NOTES

Inventory policies: On an average, the value of finished products amounts to 4% of the total production value.

Depreciation policy: Application of the straight-line method. The "Export Promotion Law" grants accelerated depreciation rates which in this particular case accounted for the loss accrued in 1967. Total depreciation amounted to US \$ 632,000 including US \$ 449,000 of special depreciation. Facing a loss of US \$ 345,000, the company could have easily been profitable. Company produces with very modern machinery.

Commission work: Catalogues, packagings for cigarettes, folding boxes and labels were manufactured on commission basis for 12 contractors. Offset and intaglio printing as well as the most advanced labelling methods were applied. The commissions received amounted to US \$ 915,000. The work is based on a short-term contract.

Major bottlenecks during the year: Due to severe shortage of floor space the company had to construct a new plant. Some US \$ 1,5 million were invested in 1966/67 to expand the floor space by 8,000 m². Furthermore, the company reports a lack of skilled workers. Although in-plant training programmes have been promoted to enlarge the number of company-trained skilled workers, present demand could not yet be met. Management complains about the difficulty to convince labour that personal efforts and sense for responsibility account for increases in productivity. The importance of further training is clearly recognised by management.

VIII. TECHNOLOGICAL CHARACTERISTICS (cont'd): Detail of Process Equipment (I.1)		Original Purchase Value (000 US \$)	Replace- ment value (000 US \$)	Avg. age (yrs)	Supplier country	Daily running time	Output
High frequency gluing machine	1	18.8	29.0	9	Switzerl.	16 hrs	5,000-60,000 sheets/hr
Rectangular fluting machine	1	55.4	69.7	3	USA	16 "	2,000-10,000 pieces/hr
Speed folder	1	6.6	10.8	5			
Scamotron (adjustment of raster)	1	59.0	73.5	5	UK	5 "	1 set offset: 2,5 hr Scam-time 1 set intaglio: 1 " " "
Celetron	1	30.2	30.2	1	Switzerl.	5 "	
Intaglio printing machine	1	70.9	92.9	3	F.R.Germ.	9 "	carton: 3,500 sheets/hr., paper: 2,800 " "
4-colour intaglio rotary printing press	1	162.7	309.6	8	" "	20 "	7,000-10,000 s/hr
Copper and chrome plating equipment	1	17.4	23.2	5	" "	9 "	
Stacking equipment	1	5.2	5.2	1	Switzerl.	3 "	
Lifts	2	19.0	24.0	6			
Knife grinding machine	1	5.3	9.7	10			
Multi-purpose lathe	1	11.2	13.5	2			
Transformer station	1	51.7	51.7	..			
Air conditioning plant	1	49.2	49.2	..			
Central heating	1	56.4	56.4	..			
Others	..	..	..	..

Major Products: Illustration paper, book paper, writing paper and wallpaper.
Capable of producing annually 94,000 t of paper based on 3-shift operation. Full-capacity output amounts to US \$ 19 million.

Reporting Unit: A one-establishment enterprise; founded in 1949; privately owned; 7.0 employees; some exports.

I. FIXED CAPITAL ASSETS				II. MONTHLY GROSS WAGES AND SALARIES						
(End of 1967)				(Number of persons)						
	Original purchase value 1960 US \$	Firer insurance value 1960 US \$	Av. sq. (Vis.)	1967 12m. US\$	1967 12m. US\$	1967 12m. US\$	1967 12m. US\$	1967 12m. US\$	1967 12m. US\$	1967 12m. US\$
1. Primary process equipment (including installation cost)				10,975						
TOTAL	..			10,975						
- Process equipment	..			10,975						
- Hand tools & apparatuses										
2. Buildings				3,771						
TOTAL	..			3,771						
- Primary industrial buildings	..			3,771						
(total floor space: m ²)	..			3,771						
- Auxiliary buildings	..			1						
- Warehouses	..			1						
- Office administration buildings	..			2,770						
- Housing	..			1,000						
3. Auxiliary facilities (excl. buildings)				2,179						
TOTAL	..			2,179						
- Internal power equipment	..			2,179						
- Laboratory facilities	..			17						
- Means of transportation	..			30						
- Office equipment	..			13						
TOTAL PHYSICAL FIXED ASSETS (excluding land)				16,329						
4. Other fixed capital assets				1,614						
TOTAL	..			1,614						
- Land (total acreage: m ²)	..			1,411						
- Land improvements										
- Others	..			134						

Information concerning the amount and composition of various radioactive sludge samples are given on Page three (Section VIII).

EXTERNAL CONDITIONS		IV. MANNING TABLE		Number of personnel		Skill categories			
Transport:	external long distance internal long distance local and city	Fair excellent fair	(End of 1967)		Total	A	B	C	D
Utilities:	electricity water gas	fair excellent excellent			1,666	762	361	141	142
Community:	residence health and recreation education	fair fair fair							
Own Welfare Facilities:	Apartments; pension funds; and funds.								
V. INVENTORIES									
(End of 1967)		Actual value \$000 US \$	Number of units						
Inventories		1,400							
PROD:									
- Production materials		1,117	2						
- Other input materials		123	1						
- Work-in-process		+	-						
- Finished products		165	0.1						
WORKING TIME FOR OPERATIVE WORKERS:									
		1st shift	2nd shift	3rd shift					
Shift hours/day:		9.5 (*)	9.5 (*)	12.7 (*)	hours				
Actual hours/day:		2,047	2,047	1,517	hours				
Actual days/yr:		210	210	210	days				
(*) Actual; normal: 8.5 hrs.									
2. Auxiliary operative units				212			204		
- Repair & maintenance		96		5			91		
- Mechanical shop		-		-			-		
- Tooling shop		-		-			-		
- Utility control		-		-			-		
- Product & material storage		62		3			59		
- Off-site transport		25		-			25		
- Guards, cleaners, etc.		29		-			29		
3. Auxiliary non-operative units				14			14		
- Production management		3		3			-		
- Research & development		21		7			14		
- Sales unit		6		6			-		
- Accounting		3		3			-		
- General administration		11		11			-		

V. ANNUAL PRODUCTION

(1967)

Products for group of products

	Wt. of prod.	Quantity produced Unit	Quantity	Ave. unit price on factory EUR/1	Total output value EUR 1000 US \$
Illustration paper	t	79,506	130,1	15,131	1,197
Book paper	t	4,112	171,4	—	72
Writing paper	t	5,423	230,1	—	1,197
Wallpaper (unprinted)	t	3,172	221,3	792	—

TOTAL VALUE OF PRODUCTION: 17,731

VI. VALUE ADDED

(1967)

	Total value EUR 1000 US \$
1. Annual wages & salaries	7,102
- Operative workers	1,201
1,644 personnel	—
- Non-operative workers	2,117
1,42 personnel	—
2. Other payments for employees	113
3. Annual depreciation	—
- Machinery & equipment	—
- Buildings & other facilities	—
- Non-physical capital assets	—
4. Rents paid	—
5. Interest & royalties	31
6. Sales tax	130
7. Other indirect business taxes	136
8. (-) Subsidies	—
9. Corporate income before tax	1,519

TOTAL VALUE ADDED: 6,162

DESCRIPTION OF MAJOR PRODUCTS:

Company mainly manufactures illustration paper with a weight of 60 - 70 g/m².

All other types of paper are of inferior quality.

Serial production. Prompt delivery.

MARKET ASPECTS:

Consumers of products:

Publishers, printers, mail order houses and wholesalers.

Sales organisation:

Domestic market: 6 sales offices.

Foreign market: 5 sales agencies.

Share in the domestic market:

3 - 5%.

Major foreign sales areas:

Western European countries.

Competition in the market:

A few large manufacturers of paper dominate the domestic market (oligopoly).

Export price policy:

Adjustment to world market prices.

EXPORT:

Total annual export: 10% 11,919

Major products	To Western Europe	To Other countries	To Overseas countries
Illustration paper	100	—	—

Major products	To Western Europe	To Other countries	To Overseas countries
Illustration paper	100	—	—

VII. ANNUAL CONSUMPTION

(1967)

	Quantity consumed Unit	Quantity Consumed	% Import	Imports Value	Total consumption Value EUR 1000 US \$
1. Energy and water					
TOTAL:					1,325
- Electricity	MWh	4,226 (*)	—	—	120
- Coal	t	1,810	—	—	140
- Heavy fuel oil	t	46,105	—	—	1,057

(*) Not including internal supply of 130,000 Mwh.

2. Production materials

				Total consumption Value EUR 1000 US \$
				7,112
- Pine wood	m3	167,216	—	2,012
- Pulp	t	18,680	—	3,286
- Kaolin and other materials	t	3,462	—	1,874

3. Other materials & supplies

	Total Value EUR 1000 US \$
TOTAL:	1,265
- Packaging material (cardboard boxes)	211
- Parts, supplies & services	621
- Other materials & supplies (sieves and felts)	1,143

4. Business services purchased

	Total Value EUR 1000 US \$
TOTAL:	93
- Transportation, storage & insurance	182
- Communication, advertising & other business services	—

5. Work performed by subcontractors

	Total Value EUR 1000 US \$
TOTAL:	115

	Total Value EUR 1000 US \$
TOTAL VALUE OF CONSUMPTION:	11,919

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PRODUCTION EQUIPMENT B.I.J.

	Detail	Number	Number	Number	No.	Remarks	Country	Year of installation	Daily running time (hrs)	Speed of machines	Width of machines
Paper machine I	1						Germany, P.R.	1923 (reconstructed in 1959)	22	420 m/min.	3,200 mm
Paper machine II	1						Germany, P.R.	1955 (reconstructed in 1967)	20	600 m/min	4,500 mm
Hydraulic paper glazing calenders	3				13		Germany, P.R.	1958	20	700 m/min.	4,600
Continuous grinders	7				8		Germany, P.R.	1958	20	Output: 50-120 m ² /day	"
Paper reel cutters	2				16	No details available.	Germany, P.R.	1955	16-20	2,200 m/min	4,500 mm
Paper rewinding machines	2				23		Germany, P.R.	1955	20	"	2,100 mm
Kolin resolver	1				17						
Peeling drums	2				8						
Steam turbines	4				15						
Water turbines	2				11						
Steam boilers	5				7						
Packing equipment	2				4						

CAPACITY POWER:

Process equipment: electric motors 18 20,000

Generating equipment:

Installed capacity 18A 67,000

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shop	No. of people involved	Information		No. of people involved	Information
		A now reduced	B apparently above or below standard		
Barking department		C	III		
Wood grinding department		B	III		
Bleaching department		B	II		
Paper manufacturing department		B	II		
Power generating department		B	I		

CAPACITY UTILISATION:

Full-capacity output: 100% 1,750,000 m²

Current utilisation: Based on 3-shift operation

Other factors to prevent	Approximate %									
	100	90	80	70	60	50	40	30	20	10

Illustration paper

Book paper

Writing paper

Wallpaper (unprinted)

VI. HISTORY & PLAN

1. Performance in the past:

Year	1963	1964	1965	1966	1967	1968
	10,470	8,720	800			
	15,880	623	180			
	16,120	641	70			
	16,300	664	260			
	17,630	706	480			
	18,980	740	500			

2. Investments in the past:

From 1955 to 1956	3,500	Type of investment
" 1966 " 1967	3,075	Machinery and equipment Power plant and machinery

3. Future Plan:

From 1969 to 1973	1,300	Rationalisation and expansion of processes and auxiliary equipment. Additional 45 semi-skilled and 10 unskilled operatives as well as 6 non-operatives will be required on the 3rd shift.
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VII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in total.

(1962) Paper, pulp and paperboard manufacturing

Industry I N S C Code 271-1

1. Size groups by number of enterprises	No. of enterprises	No. of employees	Av. B.O.B. sales	Av. size enterprises	Av. size enterprises ratio	2. Size groups by number of enterprises		No. of enterprises	No. of employees	Av. B.O.B. sales	Av. size enterprises	Av. size enterprises ratio
						No.	No. of enterprises					
up to 19	62	537	1,413	5,739	57							
20 - 99	93	4,176	1,311	9,415	53							
100 - 199	44	6,100	1,970	11,204	47							
200 - 499	59	21,154	2,131	11,508	48							
500 - 999	14	9,664	1,771	11,100	48							
over 1,000	16	41,324	2,312	13,477	46							
TOTAL	200	52,755	2,174	12,173	47							

III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services:
- | | | |
|--------------------------------|--------------------------------------|-----------------------------------|
| 1 Engineering study | 5 Technical and managerial personnel | 8 Import and export services |
| 2 Financial assistance | 6 Industrial training | 9 Administration of foreign debts |
| 3 Industrial services | 7 Technical consultancy | |
| 4 Equipment supply | | |
| and installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Date of inquiry	Description of projects
3				
5				The enterprise is willing to sign know-how contracts and license agreements as well as to provide exports and other skilled personnel and to act as technical consultant as far as paper manufacturing is concerned.
8				The company is interested to import pulp from developing countries provided quality and prices meet requirements.

III. SUPPLEMENTARY NOTES

Contract and commission work:

To some extent paper was cut by a few sub-contractors. Commission paid amounted to US \$ 155,000.

Bottlenecks in the plant:

Lack of skilled operatives.

Current problems:

Bottlenecks in the flow of production materials as well as in the interdepartmental transportation system due to old production premises.

Inventory policy:

The company applied the declining balance method.

Inventories policy:

On the average the value of finished products in stock amounts to about 1% of the total value of production since the enterprise produces to order only.

Major Products:

Printing of books, booklets, stationery, etc. Capable of producing annually US \$ 140,000 worth of goods on one-shift operation.

Reporting Unit:

A one-establishment enterprise, founded in 1966, privately owned, no participation of foreign capital.

I. FIXED CAPITAL ASSETS

	Year of installa- tion	Op- erating value US \$ 00	Replacemen- tional value US \$ 00
(End of 1966/67)			
1. Primary process equipment			
TOTAL		55.7	61.2
- Process equipment		54.3	59.6
- Hand tools & apparatuses		1.4	1.6
- Cost of installation (incl. in process equ.)		-	-
2. Primary industrial building (rented)		-	-
TOTAL		-	-
(total floor space: .. m ²)		-	-
3. Auxiliary facilities		3.5	4.0
TOTAL		-	-
- Water, steam, electricity, cooling & storing		-	-
- Transportation facilities	1965	2.2	2.4
- Administrative facilities	1966	1.3	1.6
- Laboratory facilities		-	-
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):		59.2	65.2
4. Other fixed capital assets		-	-
TOTAL		-	-
- Land (total acreage: .. m ²)		-	-

	Supplier country	Year of installa- tion	Op- erating value US \$ 00	Replacemen- tional value US \$ 00
- Printing machines	9 USA Sweden	1966	39.3	43.2
- Shears	5 Sweden	"	10.6	11.6
- Photographic equipment	USA	"	3.0	3.3
- Printing types	USA FR.Germ.	"	1.4	1.5

HISTORY OF INVESTMENT:

Construction of the factory as well as trial and commercial production started in 1966. In 1967 US \$ 10,000 were invested to expand the lithographic equipment.

II. INVENTORIES AND WORKING CAPITAL

	Amount value	2. Liquid assets	Amount value
(End of 1966/67)			
1. Inventories			
TOTAL	19.0	TOTAL	14.2
- Production materials	15.1	- Cash (hand/bank)	0.4
- Other input materials	1.0	- Market, sec. & bonds	-
- Work-in-process	1.0	- Short-term investment	-
- Finished products	1.9	- Prepaid expenses	-
		- Accounts receivable	13.8
3. Desired working capital			
TOTAL	40.0		
- Production materials	4	16.0	
- Other input materials	4	4.0	
- Finished products	4	6.0	
- Wages & salaries	4	13.2	
- Other special items	4	0.8	

III. EMPLOYEES TABLE

	Number of persons			
	Total	1st shift A	2nd shift B + C	3rd shift D + E
(1966/67)				
ALL SHOPS & UNITS:				
1. Primary operative shops	12	9	3	-
- All shops	12	9	3	-
2. Auxiliary operative units	1	1	-	-
- Repair and maintenance	-	-	-	-
- Bookbind shop	-	-	-	-
- Utility control	-	-	-	-
- Product & material storage	-	-	-	-
- Off-site transport	-	-	-	-
- Guards, cleaners, etc.	1	1	-	-
3. Auxiliary non-operative units	-	-	-	-
- Production management	-	-	-	-
- Research & development	-	-	-	-
- Sales unit	-	-	-	-
- General administration	-	-	-	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day:	8 hours	Normal days/year:	260 days
Actual hours/year:	2,080 hours		

CAPACITY OF OPERATIVE SHOPS:

CAPACITY POWER: Process equipment: Books printed	Generating equipment: Installed capacity	- kVA
--	---	-------

EXTERNAL CONDITIONS:

Transport: Long distance and local area, fair.

Utilities: Electricity and water, fair.

Community: Residential, excellent; health and recreational and educational poor. Training facilities for workers should be improved through industrial development laws.

IV. ANNUAL PRODUCTION

(1966/67)
Product by group of products

	Wt. of gross prod.	Quantity produced	Unit	Value per unit	Total value in US \$	Value per unit	Total value in US \$
				US \$	US \$	US \$	US \$
- Labels	1966 000 pcs	15,822	32,000	1.80	24.5		
- Cardboard boxes	" 000 "	247	550	26.00	6.4		
- Stationery (coupons—books)	" "	3,560	7,000	0.60	2.1		
- Posters	" 000 "	267	500	40.00	10.7		
- Calendars	" "	1,017	2,000	1.40	1.4		
- Miscellaneous (books, booklets, etc.)	" "	53,340	100,000	0.40	21.3		

*) The production capacity depends upon the size and complexity of the products as well as on the kinds and colours of inks to be used.

TOTAL VALUE OF PRODUCTION

V. VALUE ADDED

(1966/67)	Value added US \$
1. Wages & salaries	
- Employees in direct production (1) persons	16.1
- Other employees (1) persons	4.8
2. Other payments for employees	1.7
3. Annual depreciation	0.4
4. Rents paid	1.1
5. Interest & royalties	0.1
6. Sales tax	0.1
7. Other ind. bus. taxes	0.1
8. (-) Subsidies	—
9. Corporate income before tax	—

42.4

COMPETING IMPORTS:

The following tariff rates are imposed on imported goods like:

Products	Tariff rate per gross kg	ad valorem
Labels	US \$ 1.50	15%
Cardboard boxes	" 0.15	15%
Stationery	" 0.60	10%
Posters	" 0.03	free
Calendars	" 1.50	25%
Books and booklets	free	free

REPORTS:

Labels are exported at US \$ 1.80/000 pieces, posters at US \$ 26.00/000 pieces.

CAPACITY UTILIZATION:

Due to lack of sufficient working capital the existing capacity could only be utilized up to 50%. Furthermore it has to be considered that production only started recently.

VI. ANNUAL CONSUMPTION

(1966/67)	Quantity consumed	Unit	Value per unit	Total value in US \$
			US \$	US \$
1. Energy and water				0.6
TOTAL				

- Electricity	000 Kwh	9.14		0.3
- Detergents and lubricants	m3	2.21		0.3

2. Production materials

TOTAL	per gross kg	ad valorem	23.7
	US \$	%	
- Paper	t	30	100
- Cardboard	t	75	100
- Inks	kg	1,190	100
			0.03
			15
			14.5

VII. MONTHLY EARNING RATES

No. of employees	Average earning per month	No. of employees	Average earning per month
(End of 1966/67)	US \$	US \$	US \$
1. Legal non-operatives			
TOTAL			130
- Managers			
- Engineers			
- Technicians			
- Accountants			200
- Sales officers			
- Other professional staff			
- Clerks & typists			60

2. Legal operatives

No. of employees	Average earning per month
(End of 1966/67)	US \$
TOTAL	134
- Supervisors	
- Persons	
- Machine operators	
- Craftsmen	
- Truck drivers	
- Other full-time operatives	
- Unskilled & part-time operatives	

3. Foreign employees

No. of employees	Average earning per month
(End of 1966/67)	US \$
TOTAL	—

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

3. Other materials & supplies	Emp.	Total
	US \$	US \$
TOTAL		2.3
- Packaging	1.81	1.1
- Repair & maintenance		0.3
- Non-factor service inputs		0.2

4. Business services purchased

TOTAL	US \$
	1.2
- Transport, storage & insurance	0.1
- Communication, advertisements, etc.	0.3

5. Work performed by sub-contractors

TOTAL	US \$
	28.0

IX. SUPPLEMENTS

Governmental policies:

An adequate industrial development law should be passed in order to facilitate programmes of technical and financial assistance.

Future plan:

Presently the company evaluates investment possibilities to increase the output of labels, cardboard boxes, stationery, etc. by 1969/70.

No data available.

TOTAL

2. The groups by number of persons employed	Av. US \$	Av. per prod. unit	Av. exp. per prod. unit	Av. exp. per unit
up to	US \$	US \$	US \$	US \$

3. The groups by value of output produced	US \$	US \$	US \$	US \$
up to	US \$	US \$	US \$	US \$

4. Capital invested or physical capital assets	US \$	US \$	US \$	US \$
up to	US \$	US \$	US \$	US \$

Major Products:

Dressed skins for ladies' handbags. Capable of producing annually 100,000 m² dressed skin for ladies' handbags plus some leather for shoes; 1-shift operation.

Reporting Unit:

A one-establishment enterprise; founded in 1920 but expanded considerably in 1949-50; privately owned; 12% participation of foreign capital.

I. FIXED CAPITAL ASSETS

(End of 1966)

1. Primary process equipment

TOTAL

- Process equipment
- Hand tools & apparatuses
- Cost of installation

2. Primary industrial building

TOTAL

(total floor space: 6,627 m²)

3. Auxiliary facilities

TOTAL

- Water, steam, electricity, cooling & storing
- Transportation facilities
- Administrative facilities
- Laboratory facilities
- Others

TOTAL PHYSICAL FIXED CAPITAL ASSETS

(including land)

4. Other fixed capital assets

TOTAL

- Land (total acreage: 6,627 m²)

DETAIL OF PROCESS EQUIPMENT

No. of units Supply country Year of installation Orig. purchase value in 1966 US \$ Replacement value in 1966 US \$

Fleaching machines	6	FR, Germ., UK	1936-66	11,1	
Polishing machines	4	FR, Germ., UK	1945-58	14,1	
Brushing machines	5	UK, Mexico	1960	4,1	
Shaving machines	4	SA, FR, Germ.	1960	4,1	
Squeezing machines	4	UK, Italy	1960	17,1	280,1
Pressing machine	2	USA	1965	22,2	
Colouring machine	1	UK	1965	11,1	
Trimming machine	1	UK	1965	4,1	
Thermic dry cells	14	Mexico	1925	14,	
Machines for semi-finished hides	2	USA	1924-66	3,2	
Others				14,1	

HISTORY OF INVESTMENT:

The construction of the factory, the first trial as well as commercial production started in 1920. Expansion of production of following products was made by following investments:

1929 approx. US \$ 10,000	Cattle-, goat and lamb skin
1949 " " " 144,000	Cattle- and calf skin
1950 " " " 40,000	" " "
1956 " " " 32,000	" " "

CAPACITY POWER:

Process equipment:

Electric motor: 700 kW

Generating equipment:

Installed capacity

kVA

EXTERNAL CONDITIONS:

Transport: Long distance and local area, fair.

Utilities: Electricity, fair; water, excellent.

Community: Residential, health and recreational, educational, fair.

N. INVENTORIES AND WORKING CAPITAL

In 1966 US \$

(End of 1966)

1. Inventories

TOTAL

2. Liquid assets

TOTAL

- Production materials 68,4
- Other input materials 29,4
- Work-in-process 127,0
- Finished products 167,8
- Cash (hand/bank) 33,2
- Market, sec. & bonds -
- Short-term investment 108,6
- Prepaid expenses 3,3
- Accounts receivable 188,4

3. Desired working capital

TOTAL

Number of months

Value

4. OTHER OPERATIVE UNITS

TOTAL

Number of persons

Value

5. OTHER UNITS

TOTAL

Number of persons

Value

6. WORKING TABLE

Number of persons

7. 1966 average

Total

A

B

C = Number operative

D = Other operative

8. ALL SHOPS & UNITS:

1. Primary operative shops

TOTAL

A

B

C

D

9. WORKING TIME PER OPERATIVE WORKER:

Normal hours/day

Actual hours/year

Normal days/year

Actual days/year

A = hours

B = days

C = hours

D = days

10. CAPACITY OF OPERATIVE SHOPS:

The processing capacity of skin finishing department is 300,000 m²/year

on one-shift operation; moderate automation.

ADVANTAGE CONNECTED WITH THE PARTICIPATION OF FOREIGN CAPITAL:

The general manager is a foreigner and his technical ability as well as his liaison with foreign trading organizations has been essential for the successful business.

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1.1)

Number	Original Purchase Value US \$ 0.0	App. Val. US \$ 0.0	Age Year Prod.	Remarks	Further details
--------	--	---------------------------	----------------------	---------	-----------------

Special machines and equipment
(hydraulic press, sewing and
cutting machines, mixers and
conveyors) 2,772 approx. 10%
higher than
original
purchase
value

Common type of machines and
equipment 120

1,188

Remarks:
SI Purchased or used hand
SO Order
R Received
X Not constructed

CAPACITY POWER
Process equipment:

electric motors 1.8

Generating equipment
installed capacity 1200

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process method	Industries	Industries standard	Automation
Plastic and rubber shoe production		B	D: approximately short of today's standard	I: fully automated
Textile and leather shoe production		B	E: almost standard	II: semi-automated

Industries:
A: most advanced
B: considerably high standard
C: moderate standard
D: approximately short of today's standard
E: almost standard

Industries standard:
F: fully automated
G: semi-automated

CAPACITY UTILIZATION:

Full-capacity output Approx. US \$ 12.5 million.

Current utilization

The over-all capacity utilization rate is considered to be about 75%.

For full-capacity utilization additional 262 operatives would be needed.

Also approximately US \$ 2.6 million should be invested to correct the

existing bottleneck to reach the nominal full-capacity production.

VIII. HISTORY & PLANS

1. Performance in the past:

Year:	Total output US \$ 0.0	No. of employees employed	Total output US \$ 0.0
1961	5,280	1,000	-
1964	5,680	1,500	-
1965	6,200	1,600	-
1966	6,860	1,700	920
1967	7,660	2,000	1,800
1968	10,250	2,940	920

2. Investments in the past:

From 1965 to 1968 :	Type of investments US \$ 0.0
3,960	60% machinery and 40% building

3. Future Plan:

From 1969 to 1973 : 2.6 mill. Expansion of production and administrative and welfare facilities; technological improvement of all facilities. Additional 200 primary operatives, 50 auxiliary operatives and 12 persons for management and administration will be employed then.

IX. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

*) Data of 4 selected modern establishments manufacturing shoes, thus representing only part of ISIC-code 241/300.

(1967)

Industry Shoe manufacturing (ISIC Code 241/300)

1. Size groups by number of permanent employees	No. of enterpr.	No. of emp.	Ave. W. S. S. per emp. US \$ 0.0	Ave. gross output US \$ 0.0	Ave. net output US \$ 0.0	Fixed physical capital assets per person (US \$)
Up to 99	1	96	844	4,626	29	4,206
100 - 120	2	227	1,186	20,209	21	3,291
This enterprise	1	1,711	1,145	5,079	28	3,524

1. Total	4	2,118	1,331	6,692	26	3,527
----------	---	-------	-------	-------	----	-------

IV. ANIMAL PRODUCTION

(1966)	Wt. of finished prod. Units	Quantity produced Units	Estimated capacity output Units	Unit price in factory US \$	Total production value US \$ M
- Dressed skin for ladies' footwear	1920	000 m2	48	60	480
- Dressed skin for handbags	1966	000 m2	253	300	5,100
					TOTAL VALUE OF PRODUCTION
					1,311.7

PRODUCTS AND PRICES:

The major products have lately shifted from inexpensive footwear leather to more expensive leather for handbags. The prices as above, exclude the sales tax.

EXPORTS:

No direct exports. But part of the output is believed to be exported.

CAPACITY UTILIZATION:

In the case of 2-shift operation, capacity output will rise to 480,000 m2 per year. The current rate of utilization (85%) is considered as being satisfactory.

V. ANIMAL CONSUMPTION

(1966)	Quantity consumed	Value			
	Units	Per capita	% imported	Tariff rate	US \$ M
1. Energy and water					22.1
TOTAL					
- Electricity	000 kWh	427			9.7
- Crude petroleum	000 l	632			8.4
- Water	000 m3	63			4.0
2. Production materials					804.5
TOTAL					
- Cattle skin	pieces	34,000	21	(*) %	511.6
- Lamb skin	"	31,851	7		72.1
- Chemical products	"	..	11		220.8

(*) In addition to these ad valorem, there are charges per physical unit.

VI. VALUE ADDED

(1966)	Value US \$ M
1. Wages & salaries	
- Employees in direct production (107 persons)	102.4
- Other employees (41 persons)	122.4
2. Other payments for employees	8.2
3. Annual depreciation	14.4
4. Rentals paid	—
5. Interest & royalties	11.4
6. Sales tax (not incl. in PROFIT)	(39.0)
7. Other ind. bus. taxes	13.4
8. (-) Subsidies	—
9. Corporate income before tax	50.0

Source: Own calculations

VII. INDIVIDUAL EARNING RATES

(End of 1966)	No. of workers	Average earnings
	Units	US \$
1. Local non-operatives		
TOTAL	30	224
- Managers	1	400
- Salesmen	—	—
- Technicians	—	—
- Accountants	2	416
- Sales officers	1	616
- Other professional staff	—	—
- Clerks & typists	16	184
2. Local operatives		
TOTAL	116	95
- Supervisors	1	128
- Peons	—	—
- Machine operators	26	96
- Craftsmen	3	112
- Truck drivers	1	36
- Other full-time operatives	80	88
- Unskilled & part-time operatives	—	—
3. Foreign employees		
TOTAL	2	1,292
- Managers	1	1,504
- Engineers, trainers and other tech. control staff	1	1,080
4. Business services purchased		
TOTAL		81.2
- Transport, storage & insurance		15.2
- Communication, advertisements, etc.		15.0
5. Work performed by sub-contractors		
TOTAL		51.7
		942.0

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965) Industry group: Tanneries and leather finishing plants (ISIC: 291)					
1. Size groups by number of workers	Number of workers	Number of units	Av. no. of workers per unit	Av. exp. per worker US \$	(ISIC: 291)
Up to 25	690	3,797	530	3,227	49
26 - 50	38	1,332	1,004	5,984	65
51 - 75	20	1,211	1,008	5,883	58
over 75	21	3,219	1,286	7,616	73
TOTAL	769	9,559	911	22,710	61
2. Size groups by value of annual production					
Up to 2	585	942	49	566	42
2 - 5	399	1,228	249	1,339	42
5 - 40	213	1,548	515	2,566	51
40 - 120	76	1,239	768	4,367	53
120 - 240	34	1,029	1,035	6,116	59
over 240	46	4,475	1,240	7,834	68
TOTAL	1,353	10,461	833	5,058	63

* Capital is defined as physical capital assets.

XI. SUPPLEMENTIVE**Commission work:**

Commission contract with sales agents. This involves a chain-store type arrangement for marketing.

Future plan:

Within a period of 3 years approx. US \$ 480,000 will be invested for a general expansion of production capacity by about 50%.

Government policies:

No comments.

ITEM 1 100 - (1)

Major Products: Tyres, tubes, flaps, and other rubber products.
Producing annually approximately 11,000 tons or about 750,000 tyres and tubes of various kinds based on three-shift operation. Full-capacity output amounts to US \$ 19 million.

Reporting Unit: A branch-establishment of a fairly decentralised enterprise with 42 establishments including the central office, which is located in USA. This branch was founded in 1964. It is privately owned. Share of foreign capital amounts to 32%. Trial and commercial production were first started in 1965.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value 1968 US \$	Reposi- ture value 1968 US \$	Avg val. (Vrs.)
1. Primary process equipment (including installation cost)			
TOTAL	4,776	..	..
- Process equipment	4,776	..	..
- Hand tools & apparatus	..	..	..
- Cost of installation	..	..	..
2. Buildings	1,548	..	..
TOTAL	1,417	..	..
- Primary industrial buildings (total floor space: .. m ²)	131	..	..
- Auxiliary buildings	..	..	..
- Warehouses	..	..	..
- Office administration buildings (Housing)	..	..	..
3. Auxiliary facilities (incl. buildings)	162	..	..
TOTAL	..	..	..
- Internal power equipment	..	..	..
- Laboratory facilities	..	..	..
- Means of transportation	..	..	..
- Office equipment	162	..	..
TOTAL PHYSICAL FIXED ASSETS (excluding land)	..	..	..
4. Other fixed capital assets	331	..	..
TOTAL	172	..	..
- Land (total acreage: 171,000 m ²)	172	..	..
- Land improvements	4	..	..
- Others	156	..	..

*NB: Details of process equipment and capital of primary operating shops are given on Page Three (Section III).

EXTERNAL CONDITIONS:

Transport	external long distance internal long distance local and city	insignificant excellent excellent
Utilities	electricity water gas	fair fair insignificant
Community	residence health and recreation education	excellent excellent excellent

Own Welfare Facilities:**III. INVENTORIES**

(End of 1968)

	Actual value 1968 US \$	Number of months
Inventories		
TOTAL	3,544	..
- Production materials	1,661	3
- Other input materials	127	3
- Work-in-process	169	..
- Finished products	1,687	..

(See XII. for liquid assets and desired working capital).

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours shift	hours shift	days
			8	..	
Shift hours/day			..	..
Actual hours/year	2,030	..	..	..
Normal days/year	290	..	..	..

H. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1968 monthly average)

1968 1968 1968 1968 1968 1968 1968

1. Local non-operatives

- Managers	APPROX.	660
- Engineers	420	..
- Technicians	370	..
- Accountants	230	..
- Sales officers	120	..
- Clerks and typists	180	..
- Others	230	..

2. Local operatives

- Supervisors	230	..	305
- Foremen	180	..	230
- Skilled operatives	..	..	..
- Machine operators	120	..	180
- Craftsmen	4	..	5 per day
- Truck drivers	160	..	..
- Unskilled operatives	..	..	2 per day
- Other full-time operatives	..	..	..
- Part-time operatives	..	..	..

3. Foreign employees

- Managerial staff	over 660
- Technical staff	555
- Other skilled operatives	..
- Unskilled operatives	..

IV. SHIFTING TABLE

Number of persons

(1968 average)

1968 1968 1968 1968 1968 1968 1968
Total staff and foremen /for all shifts
+ Machine operators
(+ Other operatives)

Total 1st shift 2nd shift 3rd shift 1st shift 2nd shift 3rd shift

940 241 203 248 248 248 248

ALL SHOPS & UNITS:

940 241 203 248 248 248 248

1. Primary operative shops

243 8 49 24 81 81 81

- Total primary operative staff

243 8 49 24 81 81 81

3. Auxiliary non-operative units *

196 196 - - - -

- Repair & maintenance

501 37 130 167 167 167 167

- Mechanical shop

198 6 60 60 60 60 60

- Tooling shop

..

- Utilities control

18 1 5 6 6 6 6

- Product & material storage

96 9 23 32 32 32 32

- Off-site transport

..

- Guards, cleaners, etc.

78 13 13 26 26 26 26

- Other units

111 8 29 37 37 37 37

- Other units**(* See XII. Supplements)**

V. ANNUAL PRODUCTION

(1968) W. of
Product or group of products
Net
prod.
kg.

		Quantity produced	Av. unit prod. value	Total output value	
		kg.	MM US \$	MM US \$	
- Tyres for passenger cars		pieces	111,458	12 = 22	..
- Light truck tyres		"	65,437	28 = 48	..
- Truck tyres		"	109,461	61 = 147	..
- Others		"	37	34 = 218	..
- Tubes for passenger cars		"	56,324	2 = 4	..
- Tubes for trucks		"	75,124	5 = 12	..
- Flaps		"	112,532	..	..
- Accessories	1,965	kg	201,697	..	..
- Repair material		"	1,318	x = 1)	..
- Customer compounds		"	1,161	x = 1)	..
- Patches		"	1,180	..	..
- Ash-tray tyres		pieces	1,703	..	..

1) Net for sale, but for advertising purposes

TOTAL VALUE OF PRODUCTION: 11,483
(not including sales tax) ~~mm m m m~~

VI. VALUE ADDED

		Total value MM US \$
1 Annual wages & salaries		1,945
- Operative workers		..
- 744 personnel		..
- Non-operative workers		462
- 196 personnel		..
2 Other payments for employees		..
3 Annual depreciation		114
- Machinery & equipment		948
- Buildings & other facilities		110
- Non-physical capital assets		..
4 Rental paid		..
5 Interest & royalties		380
6 Sales tax		..
7 Other indirect business taxes		..
8 (+) Subsidies		..
9 Corporate income before tax		213

TOTAL VALUE ADDED: 11,483 ~~mm m m m~~

DESCRIPTION OF MAJOR PRODUCTS:

Automobile, truck, bus, agricultural tractor tyres and tubes of different ring sizes and appropriate quantities of flaps.

Tyre repair material and retread rubber.

Numerous patents involved in production; only one quality manufactured.

MARKET ASPECTS:

Resale: Insignificant.

Consumers of products: Car manufacturers and government.

Sales organization: Selling through dealers at discounts between 20% to 30% depending on size of order and amount of cash payments; special discounts are provided for civil defence and car manufacturers.

Extent of the market: Domestic market only.

Share in the domestic market: 40%.

Competition with imported products: Very keen competition.

Imports of production materials: All exempted from import duties. Natural rubber from Malaysia and Singapore. Nylon tyre cord, synthetic rubber, Polybutadiene are from France, P.R. Germany and Japan. Carbon black and rubber chemicals are from Western Europe as well as USA.

EXPORT:

Total annual export: None.

Major product	To Middle eastern countries	To Eastern countries	To Western European countries

Good prospects for exports in
the future.

VII. ANNUAL CONSUMPTION

(1968) Quantity consumed
Unit Quantity

Amount
import
duty
Total consumption
value
MM US \$

1. Energy and water				
TOTAL:				244
- Electricity	000 kWh	7,200 *	-	95
- Liquid fuels and lubricants	"	..	-	124
- Water	000 m³	..	-	3
- Others	"	..	-	22

2. Production materials				4,948
TOTAL:				
- Natural rubber	t	2,500	100	
- Synthetic rubber	"	1,775	100	
- Carbon black	"	1,969	100	
- Nylon fabrics	"	668	100	
- Chemicals	"	900	40	
- Lead wire	"	240	100	
- Solvents	"	300	100	
- Liners	"	85	100	
- Tube valves	pieces	15,000	100	
- Others	"	..	..

* Not including internal supply of 960,000 kWh at a unit price of US \$ 0.02.

** Raw materials are all exempted from import duties.

3. Other materials & supplies

TOTAL:	337
- Packaging material	143

- Parts, supplies & services	178
- Other materials & supplies	16

4. Business services purchased

TOTAL:	364
- Transportation, storage & insurance	74
- Communication, advertising & other business services	290

5. Work performed by subcontractors

TOTAL:	-
TOTAL VALUE OF CONSUMPTION:	5,893 mm m m m

THEIR FINEST CLOTHING. CHOOSE THEM FROM THE

MAIL OF SHOPS:

- Processing department: Rubber cutting; compounding; mixing and milling; dip units; calender and liner re-rolling; tuber; cement house.
 - Assembly department: Stock preparation; bead building; band building; tyre construction of single and twin beads.
 - Vulcanisation and finishing department: Curing of tyres; final inspection of tyres; building, curing, inspection and boxing of tubes, flaps and airbags.
 - Service departments: Repair new products; raw material receiving and storing; supplies receiving and storing; material handling; finished goods warehouse and shipping; compounding and laboratory; production engineering; quality control; tire study and Standard; plant safety; production scheduling; purchasing; industrial and personnel relations; etc.

Tyre manufacturing requires a great amount of manual labour especially for assembly departments and product control.

ASSOCIATION OF INDUSTRIAL OPERATIVE SHOPS

SCHEDULING, PLANNING, ETC.		Mechanization	C machine standard	Automation
CAPACITY OF PRIMARY OPERATIVE SHOPS:		4 most advanced 3 moderately high standard 2 moderately low standard 1 least advanced	D opportunity short of today's standard E almost unlimited	F fully automated G semi-automated H unautomated
Shop primary operation done	Kind of process involved		Action	Further details
Dip department	Nylons are dipped in chemical mixtures	B	II	
Tube manufacturing department	-	C	II	
Tyre construction (single head)	Tyre building drums for primary shape of tyres	C	II	

For the size of the factory the degree of automation and mechanization is equivalent or even superior to any factory in the world. With an increase in production scale, conveyors will replace manual transport of materials and tyres. The present level of production, however, does not economically justify such replacements.

SEARCHERS AND ACTORS

CAPACITY UTILIZATION
Full capacity output ADJUSTED RATE 1988-1989
18.6%¹

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The over-all capacity utilisation rate is considered to be about 70%. This is partly due to competition of imported tyres. The company expects to improve the present utilization rate after a car manufacturing factory

For full utilisation of the actual capacity an increase in labour would be required: for operative shops 40 man-years on the 1st shift; 30 on the 2nd and 3rd shift respectively; for non-operative shops 150 man-years on the 1st shift. Also an investment of about US \$ 410,000 will be required for extension of production facilities especially of the vulcanisation department.

CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

10

1

Industry	(SIC Code)		
	Ave. W. S.	Ave. gross prod. val/ per pers.	Ave. value added/prod. unit (\$)
1. Gas groups by number of persons employed:	No. of establishments	No. of emp.	No. of pers.

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	Total capacity t	No. of units	Total capacity t
1. Performance in the past:			
Year: 1963	-	-	-
1964	-	-	-
1965 *)	260	360	-
1966	4,772	509	-
1967	5,222	524	-
1968	-	249	-

*) Four months' operation for production of tyres and one month for tubes.

<u>2. Investments in the past:</u>	<u>Type of investment</u>
In 1968 :	70 1 press
" 1969 :	1,000 Tyre building machines and

1. *Laurel*

Within the next five years a capital investment of US \$ 2,200,000 is planned for replacement of process machinery and equipment and other primary production facilities; new additions to product-line and process machinery and equipment; at the same time technological improvement of products and process equipment will be involved in these investments from which a decrease of 50 man-years per shift (40 primary and 10 auxiliary operatives) will become possible.

Industry	(HSIC Code)			Ave. value added per unit of production			
	No. of units	No. of emp.	Ave. W. & L.	No. of units	No. of emp.	Ave. W. & L.	No. of units
1. One group by number of persons employed:							
	No. of units	No. of emp.	Ave. W. & L.	No. of units	No. of emp.	Ave. W. & L.	No. of units

2301

TOTAL:

III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of service:
- 1. Engineering study
 - 2. Financial assistance
 - 3. Industrial services
 - 4. Equipment supply
 - 5. Technical and managerial personnel
 - 6. Industrial training
 - 7. Technical consultation
 - 8. Import and export services
 - 9. Marketing
 - 10. Administration of foreign affairs

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of service	Country or region	No. of projects	Date of industry	Description of project

IV. SUPPLEMENTS & NOTES

Liquid assets (current):	(000 Rls)
Cash on hand and in bank	81
Marketable securities and bonds	-
Accounts receivable from delivery of goods and services	4,024
Other accounts receivable	595
Prepaid expenses	112
Total	4,812

Capital machine capital: (under current business conditions)	(000 Rls)	Equivalent number of units
Production materials	1,660	1
Other materials and supplies	140	3
Finished products	170	3
Wages for primary operative workers	60	1
Other wages and salaries incl. training costs	60	1
Administrative costs	449	
Sales costs	265	
Contingencies	481	1
Other special items plus advertising	550	-
Total	3,820	1

Depreciation policy:

In accordance with the Iranian laws of income tax; depreciation rate of buildings amounts to 10%.

Governmental policy:

Imports of productive materials are all duty-exempt. But competitive imports are not banned.

Relation of the reporting establishment to the other sister establishments:

The parent company (located in USA): no special advantage regarding the supply of raw material and outlet of products. But patents and know-how, temporary assistance of skilled operatives are received. In the future, marketing co-operation is envisaged when the products of this branch become exportable.

A Pakistan branch: occasional help in regard to the supply of raw material and outlet of products but not crucial.

Ad. IV. Manning table:

In 1968 the following additional administrative salaried staff was employed:

General management	2
Treasury, finance and purchasing	71
Sales	30
Factory office maintenance	15
Total	138

Major Products:

Natural and synthetic rubber tyres, tubes and floor coverings. Capable of producing annually 272,000 tyres for automobiles on a three-shift operation.

Reporting Unit:

A one-establishment enterprise, founded in 1958 by reconstituting a semi-private enterprise which had existed for several years; with 49% foreign capital participation.

I. FIXED CAPITAL ASSETS

(End of 1966)

1 Primary process equipment

TOTAL

- Process equipment
- Hand tools & apparatuses
- Cost of installation

2 Primary industrial building

TOTAL

(total floor space: 1,107 m²)

3 Auxiliary facilities

TOTAL

- Water, steam, electricity, cooling & storing
- Transportation facilities
- Administrative facilities
- Laboratory facilities

TOTAL PHYSICAL FIXED CAPITAL ASSETS

including land:

4 Other fixed capital assets

TOTAL

- Land (total acreage: 1,441 m²)
- Others (in the process of installation)

DETAIL OF PROCESS EQUIPMENT (no.)

Supplier country

Year of installation

Orig. purchase value
1966 US \$Replacement value
1966 US \$

	Supplier country	Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$
- Tubing machine	(1) ..	1951	1,120	1
- 84" mill	(1) Sweden	1958-67	18,600	1
- 40" mill	(1) U.S.A.	1950-54	15,400	1
- Automatic "bom"	"	1962	1,760	1
- Semi-automatic presses	"	1962	30,120	on the whole 60-65 % higher
- Bambury mixer	"	1953	6,200	1
- Calender	"	1953	6,200	1
- Dies	"	1953	6,650	1
- Tyre building machines	"	1953	71,100	1
- Impregnating machine	"	1953	67,000	1

H. INVENTORIES AND WORKING CAPITAL

in 1966 US \$

(End of 1966)

1 Inventories

TOTAL

\$ 1,361

- Production materials
- Other input materials
- Work-in-process
- Finished products

2 Liquid assets

TOTAL

\$ 2,148

- Cash (hand/bank)
- Market. sec. & bonds
- Short-term investment
- Prepaid expenses
- Accounts receivable

III. MANUFACTURING TABLE

Number of persons

(1966 average)

Total

A

B

C

D

E

F

G

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IV. ANNUAL PRODUCTION

(1966)

Products by group of products

	W. of Prod	Quantity produced	Installed capacity output	Unit price in factory US \$	Total production value US \$
		Units	Output		
- Tyres for cars	1958	pieces			
- " " trucks	"	"	172,000	217,000	35,36
- " " tractors	"	"			
- Tubes	"	"	124,000	124,000	1,00
- Rubber floor coverings	"	t	100,000	100,000	0,30
Allowance for reworks and special discounts					10
					TOTAL VALUE OF PRODUCTION: 1,104

(*)

UNIT PRICES: Do not include sales tax

EXPORTS: None.

CAPACITY UTILIZATION:

The capacity estimates are geared to the installed capacity of the factory and mills. The capacity is currently fully utilized, thus pressing for further expansion investment (another plant of a similar size).

V. VALUE ADDED

(1966)

	Value US \$
1. Wages & salaries	
- Employees in direct production	
(1,000 persons)	
- Other employees	
(1,000 persons)	
2. Other payments for employees	
3. Annual depreciation	
4. Rental paid	
5. Interest & royalties	
6. Sales tax (not incl. in value)	
7. Other ind. bus. taxes	
8. () Subsidies	
9. Corporate income before tax	

VI. ANNUAL CONSUMPTION

(1966)

1. Energy and water

	Quantity consumed	Total			
	Unit	Production	Imports	Trade	Value US \$
- Electricity	000 Kwh	..		100	
- Gas	000 m ³	..		..
- Water	000 m ³	..		..

2. Production materials

							Total
	t	1,052	100	15	602		1,101
- Natural rubber	t	1,052	100	15	602		
- Synthetic rubber	"	1,928	20	7	1,056		
- Fabrics, Rayon, Nylon	"	603	-	-	1,306		
- Pigments	"	2,864	-	-	2,864		
- Valves and parts	000 pieces	146	5	40	44		
- Wires	t	160	-	-	160		
- Other materials	..	..	..	..	145		

VII. INDUSTRIAL EARNING RATES

(End of 1966)

	No. of	Average earning
	Persons	US \$
1. Local non-operatives		
TOTAL		14
- Managers & staff	1	100
- Supervisors	1	100
- Clerks	1	100
- Technicians	1	100
- Accountants	1	100
- Sales officers	1	100
- Other professional staff	1	100
- Craftsmen & typists	1	100

2. Local operatives

	No. of	Average earning
	Persons	US \$
TOTAL		102
- Supervisors	1	100
- Foremen	1	100
- Machine operators	111	100
- Craftsmen	10	100
- Truck drivers	1	100
- Other full time operatives	98	100
- Unskilled & part-time operatives	1	100

3. Foreign employees

	No. of	Average earning
	Persons	US \$
TOTAL	8	1,000
- Management staff	1	1,000
- Engineering, technicians and other technicians	1	1,000
- Other non-operatives	6	1,000

3. Other materials & supplies

	No. of	Average earning
	Persons	US \$
TOTAL	171	100
- Packaging	1	100
- Repair & maintenance	1	100
- Non-factor service inputs	170	100

4. Business services purchased

	No. of	Average earning
	Persons	US \$
TOTAL	1,191	100
- Transport, storage & insurance	1	100
- Communication, advertisements, etc.	1,190	100

5. Work performed by sub-contractors (million US \$)

	No. of	Average earning
	Persons	US \$
TOTAL	1,271	100
	2,291	100

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group: Manufacture of rubber products

(ISIC: 300)

	Number of employees	Number of units	Avg. w. &. s.	Avg. gross prod. val.	Avg. exp. gross prod. val./unit
Up to 5	760	1,832	359	2,112	39
over 5	276	13,814	1,971	11,412	64

	Number of employees	Number of units	Avg. w. &. s.	Avg. gross prod. val.	Avg. exp. gross prod. val./unit
2	1,540	2,326	67	722	33
2 - 8	496	1,229	291	1,483	41
over 8	339	14,001	1,955	11,410	64

	Number of employees	Number of units	Avg. w. &. s.	Avg. gross prod. val.	Avg. exp. gross prod. val./unit
TOTAL	2,375	17,556	1,588	9,286	63

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

COMMISSION WORK

Total commissions paid for milling amount to U.S. \$10,900 for the year considered.

GOVERNMENT POLICIES

The sales price for tyres, which is controlled by the Government, has been the same since 1957. The enterprise wishes to see that the Government should allow the price to be raised, since all costs are rising. There are also severe importation restrictions for some raw materials. Local average price for raw materials is believed to be 25% higher than the international price.

FUTURE PLANS

During 1967 - 1970, US \$ 15,200 will be invested for an additional plant to be built in the enterprise. The additional labour to be employed will be:-

1st shift	125 persons
2nd shift	100 "
3rd shift	100 persons



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III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Engineering study	1. Technical and managerial personnel	4. Import and export function
2. Financial assistance	2. Industrial training	5. Admission of foreign labour
3. Technical services	3. Technical consultancy	
4. Equipment supply		
5. Management & representation		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of services	Country or region	No. of projects	Place of industry	Description of project

III. SUPPLEMENTS & NOTES

Depreciation policy:

The following depreciation rates were applied: Building 10%,
 Machinery 10%,
 Furniture 20%.

Governmental policies:

Government provides financial assistance, import facilities, restriction on competitive imports and customs duty exemption for imported production materials.

Training:

US \$ 3,430 are spent annually for training by exports in a special training department, which was established in 1967.

Liquid assets (excluding current average):	000 US \$
- Cash on hand and in bank	34
- Marketable securities and bonds	145
- Accounts receivable from delivery of goods and services	990
- Other accounts receivable	4,330
- Prepaid expenses	98
Total average liquid assets	5,591

Required working capital:	Value in 000 US \$	Equivalent number of months
- Production materials	6,860	12
- Other materials and supplies	360	12
- Finish d products	-	-
- Wages for primary operative workers	870	12
- Other wages and salaries	1,190	12
- Training costs	-	-
- Administrative costs, sales costs, and contingencies	870	12
- Other special items	1,760	12
Total desired working capital	11,930	12

Major Product: Ladies' shoes.

Capable of producing 61,000 pairs of ladies' shoes per year. Full capacity output amounts to US \$ 460,000 based on 1-shift operation.

Reporting Unit:

A one-establishment enterprise; privately owned; founded in 1912; 70 employees; favourably situated; 25% exports. Although originally founded in 1912; machinery and equipment meet modern standards of mechanization.

I. FIXED CAPITAL ASSETS

(End of 1965)		Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Avr. age (Vrs.)
1. Primary process equipment (including installation cost)		52	87	
TOTAL		52	87	5
- Process equipment *		52	87	
- Hand tools & apparatuses		-	-	-
2. Buildings		-	-	-
TOTAL		-	-	-
- Primary industrial buildings (total floor space: 790 m ²)	Rented	-	-	-
- Auxiliary buildings		-	-	-
- Warehouses		-	-	-
- Office administration buildings		-	-	-
- Housing		-	-	-
3. Auxiliary facilities (excl. buildings)		-	-	-
TOTAL		-	-	-
- Internal power equipment		-	-	-
- Laboratory facilities		-	-	-
- Means of transportation		-	-	-
- Office equipment		-	-	-
TOTAL PHYSICAL FIXED ASSETS (excluding land)		52	87	
4. Other fixed capital assets		-	-	-
TOTAL		-	-	-
- Land (total acreage: ... m ²)		-	-	-
- Land improvements		-	-	-
- Others		-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Part three (Section V/H).

EXTERNAL CONDITIONS:

Transport:	external long distance	-
	internal long distance	-
	local and city	fair
Utilities:	electricity	fair
	water	"
	gas	"
Community:	residence	-
	health and recreation	-
	education	-
Own Welfare Facilities:	-	-

III. INVENTORIES

(End of 1965)		Actual value (1000 US \$)	Number of months
Inventories			
PROD:		36	
- Production materials		12	1
- Other input materials		11	1
- Work-in-process		6	0.5
- Finished products		7	0.25

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	Total
Shift hours/day	8	-	-	hours
Actual hours/year	2,130	-	-	hours
Actual days/year	237	-	-	days

H. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1965 monthly average)

	1st shift	1st shift	1st shift	1st shift	2nd shift	2nd shift	2nd shift	2nd shift	3rd shift	3rd shift	3rd shift	3rd shift
	US\$	US$	US$	US$	US$	US$	US$	US$	US$	US$	US$	US$

1. Local non operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists

2. Local operatives

- Supervisors
- Foremen
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

IV. SHIFTING TABLE

Number of persons

(1965 average)

Shift categories:

- A. Supervisory staff and foremen (for all shifts)
- B. Skilled operatives
- C. Semi-skilled operatives (machine operators)
- D. Unskilled operatives

Total	A	B	C	D	1st shift	2nd shift	3rd shift
	12	-	-	-	59	-	-

ALL SHOPS & UNITS:

Total	A	B	C	D	1st shift	2nd shift	3rd shift
	12	-	-	-	59	-	-

1. Primary operative shops

	A	B	C	D	1st shift	2nd shift	3rd shift
- Cutting shop	1	1	1	1	1	-	-
- Stitching shop	19	1	-	13	5	-	-
- Bottom shop	27	1	1	3	6	-	-
- Finishing shop	6	1	-	2	2	-	-

2. Auxiliary operative units

	A	B	C	D	1st shift	2nd shift	3rd shift
- Repair & maintenance	-	-	-	-	-	-	-
- Mechanical shop	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-
- Utilities control	-	-	-	-	-	-	-
- Product & material storage	-	-	-	-	-	-	-
- Off-site transport	-	-	-	-	-	-	-
- Guards, cleaners, etc.	1	-	-	1	-	-	-
- Other auxiliary operations	1	-	-	1	-	-	-

3. Auxiliary non-operative units

	A	B	C	D	1st shift	2nd shift	3rd shift
- Production management	2	-	-	-	-	-	-
- Research & development	1	-	-	-	-	-	-
- Sales unit	2	-	-	-	-	-	-
- Accounting	1	1	-	-	-	-	-
- General administration	2	1	-	-	-	-	-

V. ANNUAL PRODUCTION

(1965)

Products for group of products

	Wt. of the prod.	Quantity produced Unit	Av. unit price at factory	Total output value 1965 US \$
Ladies' shoes	1,147	pair	US \$ 100	113,134

TOTAL VALUE OF PRODUCTION: 342,000,000

VI. VALUE ADDED

(1965)

1. Annual wages & salaries
 - Operative workers
1,147 persons
 - Non-operative workers
1,147 persons
2. Other payments for employees
3. Annual depreciation
 - Machinery & equipment
 - Buildings & other facilities
 - Non-physical capital assets
4. Rents paid
5. Interest & royalties
6. Sales tax
7. Other indirect business taxes
8. (-) Subsidies
9. Corporate income before tax

Total
value
1965 US \$

TOTAL VALUE ADDED: 112,000,000

DESCRIPTION OF MAJOR PRODUCTS:

Ladies' shoes, serial production, high quality products, short-term delivery.

MARKET ASPECTS:

Consumers of products:

Domestic and foreign wholesalers and retailers.

Sales organization:

Two sales agents; production to order only.

Share in the domestic market: About 0.5%.Foreign sales areas: Sweden, Norway, Denmark.Competition in the market:

Imports from Southern Europe have a very strong impact on domestic pricing particularly of cheaper products.

EXPORT:

Total annual exports: 100,000,000

Major products	To Western Europe	To Eastern Europe	To Other countries
Ladies' shoes	100	0	0

Export price policy:

International competitiveness is increased due to export subsidies (exemption from sales tax).

The government subsidizes exports by way of reducing the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under 100% has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1965)

	Quantity consumed Unit	Wt. of prod.	Total consumption value 1965 US \$
1. Energy and water TOTAL:			1
- Electricity	000 kWh	51	1
- Gas	000 m ³	2.0	0.1

2. Production materials

	Wt. of prod.	Total consumption value 1965 US \$
- Upper leather	m ²	7,054
- Lining leather	"	6,600
- Bottom material	"	24
- Heels	"	12

3. Other materials & supplies

	Total consumption value 1965 US \$
TOTAL:	3
- Packaging material (e.g. boxes, wrapping paper)	4
- Parts, supplies & services	3
- Other materials & supplies	1

4. Business services purchased

	Total consumption value 1965 US \$
TOTAL:	5
- Transportation, storage & insurance	1
- Communication, advertising & other business services	4

5. Work performed by subcontractors

	Total consumption value 1965 US \$
TOTAL:	1

TOTAL VALUE OF CONSUMPTION: 156,000,000

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT 8.1.2:

	No.	Original Purchase Value MM US \$	Acq. Value MM US \$	Av. Age Yrs.	Av. Age Prod. Yrs.	Av. Rate of utilization (%)	Country	Quality	Daily working time	Capacity output	Capacity utilization
Folding machines	1	1	1	6	6	100					
Stretching machines	10	1	1	6	6	100					
Lacing machines	3	14	1	6	6	100					
Premises and roughing machines	6	4	1	6	6	100					
Stamping machines	4	6	3	6	6	100					
Sole-making machines and other devices	6	0.2	0.2	6	6	100					
Piling machines	2	2	1	6	6	100					
Heel attaching machines and other devices	4	9	1	6	6	100					
Milling cutters	3	3	1	6	6	100					
Compressors	7	3	1	6	6	100					
Reboring machine	1	0.1	0.1	6	6	100					
Folding machines	3	1	1	6	6	100					
Pressing machine	1	1	1	6	6	100					
Patenting machine	1	1	1	6	6	100					

CAPACITY POWER:

Process equipment:
electric motors 117 kWGenerating equipment:
installed capacity = 1000 kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Type primary operative shop	Kind of process involved	Status	Actions	Production		Comments
				A: most advanced	B: apparently less or not yet standard	
Cutting shop	Upper and lower leather cutting, by hand	A		III		
Stretching shop	Upper and lower leather stretching, by hand	A		III		
Shoe sole manufacture	Production of shoe soles, by hand	A		III		
Finishing shop	Production of leather articles	B	III			

CAPACITY UTILIZATIONS:

Full capacity output:

Current utilization:	Approximate %		Type of investment	Total output MM US \$	No. of processes involved	Total output MM US \$
	High products for process	Low products for process				
Leather's shop						
20% - 30%	100	100				
30% - 40%	100	100				
40% - 50%	100	100				
50% - 60%	100	100				
60% - 70%	100	100				
70% - 80%	100	100				
80% - 90%	100	100				
90% - 100%	100	100				

In order to achieve full capacity output additional non-operative as well as 15 - 20 operative will be required in the future.

H. HISTORY & PLAN

1. Performance in the past:

Year: 1963	Total output MM US \$	No. of processes involved	Total output MM US \$
1964	15	79	70
1965	15	72	60
1966	-	-	-
1967	2	2	2
1968	2	2	2

2. Investments in the past:

Prod. 19 - to 1970	Type of investment
10	machinery and equipment

3. Future Plan:

Prod. 19 - to 1970

4. Investments anticipated for the near future:

II. CHARACTERISTICS OF TYPICAL INDUSTRY IN THE COUNTRY

(1964)

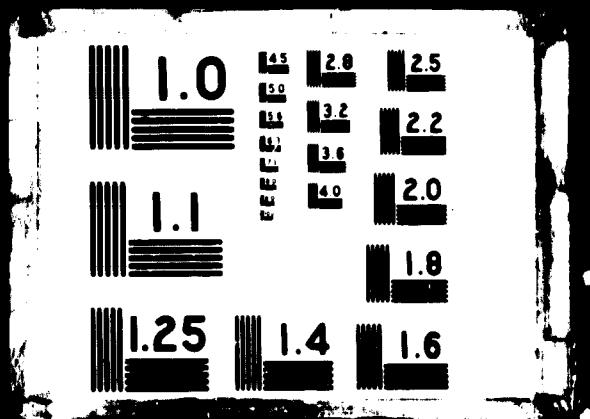
Industry Manufacture of footwear

1. Size groups by number of persons employed	HSIC-Code: 244		
	No. of plants	No. of plants per prov. MM US \$	No. of plants per prov. MM US \$
up to 19	4,731	2,160	1,219
20 - 39	23	1,151	374
100 - 499	26	12,091	1,624
500 - 999	4	1,121	1,121
over 1,000	2	0	0
TOTAL	4,851	17,211	1,735
			15

2. Size groups by annual value of production	HSIC-Code: 244		
	No. of plants	No. of plants per prov. MM US \$	No. of plants per prov. MM US \$
up to 2	1,139	1,139	321
3 - 5	1,324	1,324	342
10 - 20	1,111	1,111	311
20 - 50	1,111	1,111	311
50 - 100	1,767	1,767	6,069
100 - 200	6,139	6,139	6,122
over 200	5,137	5,137	5,392
TOTAL	4,851	17,211	1,735
			15

* Confidentiality: the figures of three size groups are included in those underlined.

6 OF 11
02919



Major Products: Tyres, V-belts and conveyor belts.

Capable of producing annually approximately 43,000 t of tyres, 380 t of V-belts and 950 t of conveyor belts based on 2 and 3-shift operation. Full-capacity output amounts to US \$ 58 million.

Reporting Unit:

A branch of a 4-establishment joint stock company; privately owned; founded in 1890. The process equipment utilised meets most modern standards. 3,200 employees. Closely located to domestic markets. The establishment is the only tyre manufacturing plant in the country. Centralized research and development laboratories. Partly licensed production. 34% exports; share in the world market for tyres: 1%.

MIDDLE EUROPE : 300 - (1 b).

I. FIXED CAPITAL ASSETS

(End of 1967)	Original purchase value (000 US \$)	Fire insurance value (000 US \$)	Av. age (Yrs.)
1. Primary process equipment (including installation cost)	..	24,179	
TOTAL	..	24,179	..
- Process equipment *	..		
- Hand tools & apparatuses			
2. Buildings	..	11,139	
TOTAL:			
- Primary industrial buildings (total floor space: 64,826 m ²)			
- Auxiliary buildings			
- Warehouses			
- Office administration buildings			
- Housing			
3. Auxiliary facilities (excl. buildings)			
TOTAL:			
- Internal power equipment			
- Laboratory facilities			
- Means of transportation (**)			
- Office equipment			
TOTAL PHYSICAL FIXED ASSETS (excluding land):	..	35,318	
4. Other fixed capital assets	
TOTAL:			
- Land (total acreage: 636,621 m ²)			
- Land improvements (t.sur. 134,542 ")	
- Others			

(**) Figures are included in both primary process equipment and buildings.

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	up to 100 US\$	100- 140 US\$	140- 180 US\$	160- 240 US\$	240- 360 US\$	over 360 US\$
1. Local non-operatives	-	-	-	-	-	12
- Managers	-	-	-	-	47	23
- Engineers	-	-	-	81	108	-
- Technicians	-	4	17	-	8	2
- Accountants	-	-	-	-	-	-
- Sales officers	-	-	-	25	48	-
- Clerks and typists	-	-	5	29	-	-
- Supervisors	-	-	-	-	43	-
2. Local operatives	-	-	-	-	-	-
- Supervisors (*)	-	-	-	-	-	-
- Foremen	-	-	-	-	381	-
- Skilled operatives	-	-	-	393	-	-
- Machine operators	-	-	-	340	22	-
- Craftsmen	-	-	-	14	-	-
- Truck drivers	-	80	106	-	-	-
- Unskilled operatives	-	-	55	1,301	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees	-	-	-	-	-	-
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

Figures are included in local non-operatives and operatives.

(*) Company considers supervisors and foremen as local non-operatives.

EXTERNAL CONDITIONS:

Transport:	external long distance	excellent
	internal long distance	insignificant
	local and city	insignificant
Utilities:	electricity	excellent
	water	fair
	gas	excellent
Community:	residence	excellent
	health and recreation	excellent
	education	excellent
Own Welfare Facilities:	-	-

III. INVENTORIES

(End of 1967)

	Actual value (000 US \$)	Number of months
Inventories	9,698	
TOTAL:		
- Production materials	1,267	0.7
- Other input materials	768	3.5
- Work-in-process	798	0.2
- Finished products	6,865	1.5

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
				days
Shift hours/day:				8
Actual hours/year:	1,767			
Actual days/year	221			

IV. MANNING TABLE

(number of persons)

	Total	A	B	C	D	1st Shift (*)	2nd Shift	3rd Shift
ALL SHOPS & UNITS:								
1. Primary operative shops	1,901	80				1,821 (**)		
- Raw material processing dept.	173	8				165		
- Calendering department	202	10				192		
- Tyre trimming department	518	12				506		
- Tyre vulcanising department	347	15				332		
- Tubes department	149	5				144		
- Bicycles, tyres and tubes dept.	184	8				176		
- V-belts, conveyor belts dept.	84	6				78		
- Radial tyres	234	14				220		
- Others	10	2				8		
2. Auxiliary operative units	957	98				859		
- Repair & maintenance	405	40				365		
- Mechanical shop	-	-				-		
- Tooling shop	-	-				-		
- Utilities control	166	16				150		
- Product & material storage	278	35				243		
- Off-site transport	48	2				46		
- Guards, cleaners, sto.	32	-				32		
- Others	28	5				23		
3. Auxiliary non-operative units	360	273				87		
- Production management	33	3				30		
- Research & development	127	127				-		
- Sales unit	4	4				-		
- Accounting	9	9				-		
- General administration	187	130				57		

(*) 2 and 3-shift operation.

(**) This figure includes 544 skilled, 723 semi-skilled, and 544 unskilled operatives.

IV. ANNUAL PRODUCTION

(1966) Products (or group of products)	Yr. of first prod.	Quantity produced	(*) Number capacity output	Unit(++) price at factory (US \$)	Total production value (1966 US \$)
	Unit	Output			
- Ammonium sulphate	1951	t	123,763	150,000	53.36
- Single super phosphate	1951	t	86,119	118,000	31.92
Intermediate products:					
(Ammonia)	1951	t	(22,385) (22,000)	-	-
(Sulphuric acid)	1951	t	(108,042) (135,000)	-	-
TOTAL VALUE OF PRODUCTION					9,349

(*) Assuming a 3-shift operation and 335 working days.
(There are 69 substitutes or relief workers to make possible 6 days/week continuous operation).

(**) Unit price does not include sales tax.

COMPETING IMPORTS:

C.I.F. price of competing imports without tariff for ammonium sulphate is \$ 53.84/t to which tariff rate of \$ 0.05/t + 3% ad valorem is applied. Single super phosphate is not imported.

EXPORTS: None.

CAPACITY UTILIZATION:

Productive capacity is underutilized due to insufficient supply of the raw materials which are dependent on imports.

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed				Total consumption value (1966 US \$)
	Unit	Purchase	% imported	Tariff rate	
TOTAL:					830
- Electricity	000 kWh	19,240			296
- Liquid fuels and lubricants		..			37
- Gas (included in production mat.)	000 m ³	17,522			155
- Steam	000 t	223			304
- Water	000 m ³	1,662			38

2. Production materials

TOTAL					3,154
- Natural gas	000 m ³	-			157
- Sulphur	t	-			1,074
- Ammonia	t	71			648
- Sulphuric acid (purchased from outside)	t	89			211
- Phosphoric rock (*)	t	-	100		1,064

(*) Import license is required for phosphoric rock.

VII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group: Basic industrial chemicals, including fertilizers (ISIC: 311)

1. Size groups by number of persons employed	Number of establish. units	Number of empl.	Ave. W. & E. per pers. US \$	Ave. gross prod. val. per pers. US \$	Ave. exp. gen. prod. ratio (%)
up to 25					
over 25	249	21,242	1,894	15,117	113
TOTAL	249	21,242	1,894	15,117	113

2. Size groups by
value of annual production
1966 US \$

up to 2	2	305	21,457	1,875	14,970	113
TOTAL	305	21,457	1,875	14,970	113	

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1965)	Value (1966 US \$)
1. Wages & salaries	
- Employees in direct production (475 persons)	681
- Other employees (171 persons)	277
2. Other payments for employees	168
3. Annual depreciation	680
4. Rentals paid	-
5. Interest & royalties	114
6. Sales tax (not incl. in TOTAL)	(102)
7. Other ind. bus. taxes	24
8. (-) Subsidies	-
9. Corporate income before tax	2,018
	4,162

VII. MONTHLY EARNING RATES

No. of pers. empl.	Average earning rate US \$
(End of 1966)	
1. Local non-operatives	
TOTAL:	85
- Supervisors	3
- Engineers	30
- Technicians	20
- Accountants	1
- Sales officers	-
- Other professional staff(*)	1
- Clerks & typists	30
	144
2. Local operatives	
TOTAL:	492
- Supervisors	-
- Foremen	-
- Machine operators	40
- Craftsmen	40
- Truck drivers	3
- Other full-time operatives	409
- Unskilled & part-time operatives	-
	-
3. Foreign employees	
TOTAL:	-

(*) Physician, part-time employed.

IX. SUPPLEMENTS**Branch profit accounting:**

This branch as such has practically no overhead expenditures for sales and purchase activities. The profit, as recorded in VI. and above, is believed not to be adjusted for the possible share in the imputable operating costs of the corporate headquarters.

Government policies:

No specific opinions.

Future plan:

In 1968 approx. US \$ 68,000 will be invested for modification of the sulphuric acid plant.

Major Products: Fertilisers, organic and inorganic chemicals, plant protection products, pharmaceuticals, adhesives. In 1967 the total value of production surpassed US \$ 80 million based on 3-shift operation. Company operated at almost full capacity.

Reporting Unit: A wholly government-owned, one-establishment enterprise; founded in 1939; nationalised in 1946; 6,400 employees; largest chemical enterprise in the country; production programme comparable with other European companies. Favouredly located; 43% exports. The company has 490 employees working on research and development and spends about 3.5% of the annual sales in this field. Enterprise is continuously expanding.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1966 US \$)	Replace- ment value (1966 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)	65,123	..	
TOTAL	61,749	- 97,384	..
- Process equipment *	3,374	..	..
- Hand tools & apparatuses			
2. Buildings	19,694	21,679	
TOTAL			
- Primary industrial buildings (total floor space: 88,800 m ²)	8,021	..	..
- Auxiliary buildings	5,884	..	..
- Warehouses	3,350	..	..
- Office administration buildings	1,541	..	..
- Housing	898	..	..
3. Auxiliary facilities (excl. buildings)	6,330	..	
TOTAL	5,179	..	..
- Internal power equipment			
- Laboratory facilities (**)	321	..	..
- Means of transportation	321	..	..
- Office equipment	830	..	..
TOTAL PHYSICAL FIXED ASSETS (excluding land):	91,147	..	..
4. Other fixed capital assets	12,408	..	
TOTAL			
- Land (total acreage: 1,479,457 m ²)	50		{ 1,314 }
- Land improvements (1,231,182 ")	1,264		
- Others	11,094	..	

(**) Included in I.1. "Hand tools and apparatuses".

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 360 US\$	over 360 US\$
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	up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 360 US\$	over 360 US\$
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	up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 360 US\$
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V. ANNUAL PRODUCTION

(1967)	Vt. of prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (000 US \$)	Total output value (000 US \$)
Products (or group of products)					
- Fertilisers	1943	t	1,257,666	39.0	48,993
- Organic chemicals	1950	"	31,485	335.8	10,571
- Inorganic chemicals	1943	"	166,470	45.3	7,535
- Plant protection products					
- Adhesives, pharmaceuticals	1946/50	"	1,278	4,419.9	5,649
- Other revenue	..	..	..	..	7,526
TOTAL VALUE OF PRODUCTION:				80,274	

VI. VALUE ADDED

(1967)	Total value (000 US \$)
1. Annual wages & salaries	
- Operative workers (4,449 persons)	9,500
- Non-operative workers (1,947 persons)	7,414
2. Other payments for employees	4,202
3. Annual depreciation	8,163
- Machinery & equipment	6,030
- Buildings & other facilities	1,951
- Non-physical capital assets	162
4. Rents paid	285
5. Interest & royalties	1,761
6. Sales tax	595
7. Other indirect business taxes	145
8. (-) Subsidies	-
9. Corporate income before tax	5,317
TOTAL VALUE ADDED:	37,382

DESCRIPTION OF MAJOR PRODUCTS:

Fertilisers: Ammonium sulfate from natural anhydrite, natural gypsum, or by-product gypsum respectively. The reaction of gypsum or anhydrite with ammonium carbonate solution, prepared from ammonia and carbon-dioxide, leads to ammonium sulfate and lime is obtained as by-product. Nitrogen content of citrogenous fertilisers varies between 21 and 46%. Compound fertilisers are manufactured on the basis of nitrogen, phosphoric acid and potassium in different concentrations and combinations.

Plant protection products: Herbicides, insecticides, and fungicides.

Chemicals: Aluminium fluoride from fluorine containing off-gases from the digestion of rock phosphate. Fluorine containing off-gases are converted to fluosilicic acid by absorption, the latter reacts with aluminium hydroxide under formation of aluminium fluoride hydrate. By appropriate calcination pure aluminium fluoride is obtained, suitable for aluminium electrolysis. Other chemicals manufactured: ammonia, liquid, 99.9% and 99.96% purity. Ammonium sulphuric acid, maleic anhydride, melamine, phthalic anhydride, urea, sodium nitrite, sodium nitrate, nitric acid.

Catalysis: For cracking liquid and gaseous hydrocarbons, catalysts for processing sulphur-free as well as sulphurous materials, high-efficiency catalyst for ammonia synthesis.

Plastics: Sold under a trade name in various modifications and colours for injection moulding, extrusion and blow moulding. Properties of product: high strength, ideal surface properties, resistance to heat, acids, and alkaline solutions, low weight.

Continuation see page 4/XII - Supplements

MARKET ASPECTS:

Re-sales:

Completion of the product-mix. Re-sales are sometimes used to open up markets for products which are planned to be manufactured by the company.

Consumers of products:

Agricultural establishments, chemical processing industry, manufacturing establishments, households (pharmaceuticals).

Sales organisation:

Fertilisers and plant protection products are sold through agricultural co-operatives and wholesalers. Representatives abroad. Partly direct selling.

Market and competition:

The enterprise supplies customers all over the world with the exception of North-America. The share in the domestic market for fertilisers and organic chemicals amounts to 100%. 2% of the world nitrogen production is manufactured by this company.

EXPORT:

Total annual export: US \$ 39,160,000. The company exports to almost 80 countries.

Major products	To Western countries	To Eastern countries	To Developing countries
- Fertilisers			
- Organic chemicals	36.6%	35.5%	27.9%
- Plastics			
- Pharmaceuticals			

Export price policy:

Depending on the world market.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity Country	% import	Average import duties (000 US \$)	Total consumption value (000 US \$)
1. Energy and water					
TOTAL:					6,934
- Electricity	000 kWh	637,014 (a)	-	-	6,121
- Coke and coal	t	207	-	-	6
- Fuel oil	t	19,690	-	122	401
- Gas	m3	25	-	-	1
- Steam	t	68 (aa)	-	-	205
- Water	m3	86,372 (aaa)	-	-	200
2. Production materials					24,983
TOTAL:					
- Coal gas	000 m3	273,706	-	-	3,544
- Natural gas	000 m3	99,832	-	-	1,943
- Crude phosphate	t	176,370	100	-	3,577
- Alcohol	t	11,000	95	-	2,605
- Potassium chloride and sulphate	t	54,900	33	-	2,138
- Oxygen steel	t	9,600	96	65	1,463
- Naphthalene	t	9,000	33	24	1,343
- Oxygen and anhydride	t	349,500	9	-	1,663
- Others	t	69,000	30	101	6,713

(a) Not including internal supply of: 000 kWh 2,131

(aa) " " " " 000 t 899

(aaa) " " " " 000 m3 181,598

	Average import duties (000 US \$)	Total consumption value (000 US \$)
3. Other materials & supplies		7,943
TOTAL:		
- Packaging material	17	3,542
- Parts, supplies & services	385	3,852
- Other enterprise & supplies	-	549
4. Business services purchased		3,032
TOTAL:		
- Transportation, storage & insurance	221	
- Communication, advertising & other business services	2,811	
5. Work performed by subcontractors		-
TOTAL:		
TOTAL VALUE OF CONSUMPTION:	42,892	

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (8.1.2)

Due to the size of the enterprise it is only possible to present a small portion of the process equipment:

	Number	Output Value 1968 US \$	Avg. prod. val./ per pers. US \$	Avg. prod. val./ per pers. US \$	Avg. prod. val./ per pers. US \$	Remarks
High-pressure gas compressors	9	1,746	..	..	..
Air-compressors for pressure-type carburetors	2	324	..	..	..
Turbo compressor for contact gas	1	186	..	..	..
Copper lye pressure pumps	4	46	..	..	..
Mole-pumps	6	91	..	..	..
NH ₃ -compressors	2	143	..	..	..
Nitrous vitriol-blasts	5	147	..	..	..
NH ₃ -air mixture-blasts	4	24	..	..	..
CO ₂ -compressors for urea	2	207	..	..	..
NH ₃ -compressors	2	73	..	..	..
SO ₂ -blast for sulphuric acid	5	368	..	..	..
Ball mills (air-swept-mill)	2	108	..	..	..
Cule mills	15	99	..	..	..
Centrifugal pumps	12	106	..	..	..
Compressed-air compressors	2	72	..	..	..
Coke-oven gas turbo blaste	4	33	..	..	..
Air-compressors	5	312	..	..	..
Gasmotors	2	273	..	..	..
Petrol tanks						

Source:
A: Purchased from abroad
B: Own
C: Acquired
D: Self-produced

Further details:
Research and development as well as production facilities are continuously kept at most modern standards. The following plants have been installed since 1952:

- 1952: Ammonium sulphate plant, phthalic anhydride plant
- 1955: Sulphuric acid plant, pharmaceutical plant, superphosphate plant
- 1958: Urea plant
- 1961: Maleic acid anhydride plant
- 1963: Urea plant, ammonium nitrate plant
- 1964: Fertiliser plant
- 1966: Consolidation of nitric acid plant
- 1967: Phosphoric acid plant

CAPACITY POWER:

Process equipment:

- electric motors kW 131,200

- Other prime movers 1,310

Generating equipment:

- installed capacity kVA 1,592

- Other prime movers kW 1,460

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops

Kind of process involved

Mechanization:
A: most advanced
B: considerably high standard
C: medium standard
D: apparently short of today's standard
E: almost outdated

Mechanization:
A: most advanced
B: considerably high standard
C: medium standard
D: apparently short of today's standard
E: almost outdated

Automation:
I: fully automated II: semi-automated
III: non-automated

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of service:
- | | | |
|---|---------------------------------------|--------------------------------|
| 1. Engineering study | 3. Technical and managerial personnel | 5. Import and export promotion |
| 2. Financial assistance | 4. Industrial training | 6. Technical consultancy |
| 3. Industrial services | 7. Technical consultancy | 8. Admission of foreign labour |
| 4. Equipment supply, installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project

The establishment is interested in co-operating with developing countries, provided problems of financing and risk taking could be solved.

Licence and know-how contracts can be furnished. Able to supply consultants for preparation of engineering studies.

XII. SUPPLEMENTS & NOTES

IV. ANNUAL PRODUCTION - DESCRIPTION OF MAJOR PRODUCTS (cont'd):

Adhesives: Glutine glues, gelatine, cold setting glues, film adhesives, construction glues, casein glues, solvent-type adhesives, metal adhesives.

Pharmaceuticals: Analgetics, emollients, antidiarrhoeals, antimycotics, antirheumatics, choleretics, haemostyptics, vasoregulators, hypnotics, oestrogen-steroid preparations, X-ray contrast agents, sulfonamides.

The company produces also

pharmaceutical active substances (belonging mainly to the group of organic-synthetic active substances) and fine chemicals and intermediary products (e.g. succinic acid, creatine, various kinds of esters).

History of investment:

The company was founded in 1939. Construction of the plant started one year later, production, however, could not be taken up before 1943. Severe reduction of business activities caused by war damages. The break-even point could not be surpassed for the first time until 1947, when sales amounted to US \$ 2,700,000.

Bottlenecks in the past and current problems:

Production could sometimes not meet the demand for organic chemicals. Company is interested in having a steady supply of cheap raw materials for the production of nitrogen. The production of plastics, plasticisers, pharmaceuticals and insecticides will be expanded.

Major Products:

Aluminium sulphate. Capable of producing annually 15,000 of aluminium sulphate (10,000 t of sulphuric acid) on a three-shift operation.

Reporting Unit:

A one-establishment enterprise, founded in 1951; private corporation.

I. FIXED CAPITAL ASSETS

(End of 1966)

	Year of installa- tion	Orig. pur- chase value (1000 US \$)	Replacement value (1000 US \$)
1. Primary process equipment		732	..
TOTAL		732	..
- Process equipment		737	..
- Hand tools & apparatuses	
- Cost of installation (included in process equipment)	
2. Primary industrial building		47	..
TOTAL		47	..
(total floor space: 500 m ²)		47	..
3. Auxiliary facilities		74	..
TOTAL		74	..
- Water, steam, electricity, cooling & storing		64	..
- Transportation facilities	
- Administrative facilities		6	..
- Laboratory facilities		2	..
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):		863	..
4. Other fixed capital assets		28	..
TOTAL		28	..
- Land (total acreage: 1,000 m ²)		28	..

DETAIL OF PROCESS EQUIPMENT (in t/h)

	Supplier country	Year of installa- tion	Orig. pur- chase value (1000 US \$)	Replacement value (1000 US \$)
- Sulphuric acid department		1951	151	..
- Furnace	"	1961	144	..
- Evaporator	"		72	..
- Reactor	"		16	..
- Generator	"	mostly	4	..
- Milling	"		1961	4
- Cooling bands			108	..
- Others		

HISTORY OF INVESTMENT:

Construction of the factory, the trial as well as commercial production started in 1951. The factory made its first profits in 1952. In 1964, approximately US \$ 196,000 were invested for an expansion of the furnace department, and in 1965, approximately US. \$60,000 were invested for expansion of the evaporation department. The annual investment for general purposes averaged US \$ 24,000 in other years.

II. INVENTORIES AND WORKING CAPITAL

(In 1000 US \$)

(End of 1966)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL	96	TOTAL	129
- Production materials	17	- Cash (hand/bank)	0.9
- Other input materials	6	- Market. sec. & bonds	0.1
- Work-in-process	-	- Short-term investment	5.0
- Finished products	73	- Prepaid expenses	11.0
		- Accounts receivable	112.0

3. Desired working capital

TOTAL

Number
of months

Value

III. MANNING TABLE

Number of persons

(1966 average)

	Total	1st shift	2nd shift	3rd shift
	A	B	A+B	A+B
ALL SHOPS & UNITS:	145	73	41	31
1. Primary operative shops	89	33	28	28
- Sulphuric acid plant	8	4	-	2
- Cooling bands department	3	1	-	1
- Evaporation department	6	2	-	2
- Furnace department	9	3	-	3
- Packaging and milling dept.	18	6	-	6
- Others	45	17	-	14
2. Auxiliary operative units	36	20	13	3
- Repair and maintenance	16	10	6	-
- Mechanical shop	-	-	-	-
- Utilities control	5	3	2	-
- Product & material storage	4	2	2	-
- Off-site transport	-	-	-	-
- Guards, cleaners, etc.	4	2	1	1
- Others (yard)	7	3	2	2
3. Auxiliary non-operative units	20	20	-	-
- Production management	1	1	-	-
- Research & development	-	-	-	-
- Sales unit	2	2	-	-
- General administration	17	17	-	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day: 8 hours - Normal days/year: 330 days
 Actual hours/year: 2,640 hours

CAPACITY OF OPERATIVE SHOPS:

The sulphuric-acid plant produces 10,000 tons per year. It is fully utilized and moderately automated and mechanized.

CAPACITY POWER:

Process equipment:
- Electric motors: 403 kW

Generating equipment
Installed capacity - EVA

EXTERNAL CONDITIONS:

Transport:

Utilities: All facilities are considered fair.

Community:

IV. ANNUAL PRODUCTION

(1966)

Products for group of products

- Aluminium sulphate

- Sulfuric acid

" "

- Various

	Yr. of first prod.	Quantity produced	Nominal capacity output	Unit * price ex factory (US \$)	Total production value (1000 US \$)
- Aluminium sulphate	1951	t 14,024	15,000	62	870
- Sulfuric acid	1954	" 9,186	10,000	(internal consum.)	
" "	"	" 981		29	28
- Various	-	-	-		37
					TOTAL VALUE OF PRODUCTION: 935

* The unit price does not include sales tax

EXPORTS: None.

CAPACITY UTILIZATION:

The capacity is fully utilized.

VI. VALUE ADDED

(1966)

1. Wages & salaries

- Employees in direct production

- (126 persons)

- Other employees

- (20 persons)

2. Other payments for employees

3. Annual depreciation

4. Rentals paid

5. Interest & royalties

6. Sales tax (not incl. in TOTAL)

7. Other ind. bus. taxes

8. (-) Subsidies

9. Corporate income before tax

Value (1000 US \$)

1,39

101

68

-

7

23

21

1,11

418

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Major Products:

Sodium carbonate, caustic soda and sodium chloride. Capable of producing annually 135,000 t of sodium carbonate, 50,000 t of caustic soda and 15,000 t of sodium chloride on a three-shift operation.

Reporting Unit:

An enterprise, including limestone quarry, founded in 1943 and significantly expanded after 1956. Privately owned. Business year 1966 from 1 November 1965 to 31 October 1966. Foreign capital participates only through purchase of bonds.

I. FIXED CAPITAL ASSETS

(End of 1966)		Year of installation	Orig. purchase value (1000 US \$)	Replacement value (1000 US \$)
1. Primary process equipment			8,448	11,880
TOTAL				
- Process equipment			6,400	8,624
- Hand tools & apparatuses			4	56
- Cost of installation			2,000	3,200
2. Primary industrial building			432	800
TOTAL			432	800
(total floor space: 2,500 m ²)				
3. Auxiliary facilities			2,960	6,252
TOTAL				
- Water, steam, electricity, cooling & storing			808	1,612
- Transportation facilities			88	240
- Administrative facilities			92	1,200
- Laboratory facilities			-	-
- Auxiliary installation for brine camps			1,972	1,200
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):			11,840	18,332

(including land):

4. Other fixed capital assets	Supplier country	Year of installation	Orig. purchase value (1000 US \$)	Replacement value (1000 US \$)
TOTAL			550	1,120
- Land (total acreage: 1,000,000 m ²)			210	900
- Construction in process for site extension			320	320
DETAIL OF PROCESS EQUIPMENT inc.:				
- Equipment for brines			40	60
- Lime and CO ₂ equipment			480	720
- Bicarbonate equipment		mostly	1,680	2,140
- Soda ash equipment		after	1,480	1,980
- Caustic soda equipment		1956	960	1,280
- Water, steam and electricity equipment			1,680	2,240
- Others			40	104

Years of installation range from 1948 to 1966. In the case of replacement of primary process equipment, about 10% of its value is likely to be imported from abroad.

HISTORY OF INVESTMENT:

The factory was constructed in 1943. Trial production started only in 1947 and the first commercial production in 1948. The factory became profitable in 1956 for the first time. During the period from 1956 to the present, approximately US \$ 8 million have been invested for the expansion of soda ash production and approx. US \$ 1.7 million for the expansion of caustic soda production; and approx. US \$ 0.6 million for the expansion of sodium chloride production.

POSITION FINANCIAL ARBITRATOR:

Foreign assistance has taken the option of corporate bonds purchase; the bond sales were conducted under a technical assistance contract and not under a joint-venture type share holding contract.

CAPACITY POWER:	Generating equipment:	Installed capacity	kVA
Process equipment: Electric motor	9,000 kW	1,750	

EXTERNAL CONDITIONS:	
Transport:	Long distance, local area, poor (great delays in railroad transport).
Utilities:	Electricity, poor (high prices); gas, excellent.
Community:	Residential, health and recreational, educational all fair.

II. INVENTORIES AND WORKING CAPITAL

(in 1000 US \$)

(End of 1966)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL:	1,172.2	TOTAL:	
- Production materials	341.9	- Cash (hand/bank)	
- Other input materials	505.1	- Market. sec. & bonds	
- Work-in-process	49.4	- Short-term investment	
- Finished products	196.8	- Prepaid expenses	
		- Accounts receivable	

* Current level and structure of actual working capital is considered close to the desirable one.

3. Desired working capital

TOTAL

Number of months	Value
-	-

III. MANNING TABLE

Number of personnel

(1966 average)	Total	1st shift	2nd shift	3rd shift
	A = Mainly operatives	B = Other operatives		
ALL SHOPS & UNITS:	1,018	730	144	144
1. Primary operative shops	411	79	108	58+54

- Brines and elaboration of salt	117	18	63	9	9	9
- Steam generation and electric energy	69	27	4	15	4	15
- Bicarbonation	45	6	9	6	9	6
- Soda ash	60	12	8	12	8	12
- Caustification	75	11	14	11	14	11
- Caustification and packing	45	5	10	5	10	5
* exclude lime quarry workers (418 persons)						

2. Auxiliary operative units

	487	423	32	32
- Repair and maintenance	51	17	17	17
- Mechanical shop	152	152	-	-
- Utilities control	181	169	6	6
- Product & material storage	19	37	1	1
- Off-site transport	4	4	-	-
- Guards, cleaners, etc.	39	23	8	8
- Others (land extension workers)	21	21	-	-

3. Auxiliary non-operative units

	120	120	-	-
- Production management				
- Research & development				
- Sales unit				
- General administration				

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day:	8	hours	Normal days/year:	290	days
Actual hours/year:	2,320	hours			

CAPACITY OF OPERATIVE SHOPS:

The capacities of different departments are in equilibrium; fully automated.

IV. ANNUAL PRODUCTION

(1965)

Products for group of products

- Sodium carbonate
- Caustic soda
- Salt (sodium chloride)

Yr. of first prod.	Unit	Quantity produced	Normal capacity output	Unit price ex factory (US \$)	Total production value (1000 US \$)
1948	t	131,880	135,000	52	6,858
1948	"	48,940	50,000	108	5,286
1961	"	14,160	15,000	17.6	249
TOTAL VALUE OF PRODUCTION:					12,393

COMPETITIVE IMPORTS:

	C.i.f. price without tariff	Tariff rate
Sodium carbonate	US \$ 45/t	7% ad valorem
Caustic soda	US \$100/t	8% "
Salt (sodium chloride)	varying	25% "

EXPORTS: None.**CAPACITY UTILIZATION:**

The existing facilities are fully utilized. No serious bottlenecks are envisaged.

V. ANNUAL CONSUMPTION

(1965)

1. Energy and water

	Unit	Quantity consumed	% Imported	Total consumption value (1000 US \$)
TOTAL:				2,710
- Electricity *	000 Kwh	2,400	-	320
- Lubricants	000 l	200	-	56
- Gas	000 m ³	120,000	-	1,120
- Steam **	"	1,300	-	1,200
- Water	"	3,600	-	14

2. Production materials

	Unit	Quantity consumed	% Imported	Total consumption value (1000 US \$)
TOTAL:				1,200
- Limestone	t	54,542	-	141
- Coke	"	5,484	-	200
- Sodium nitrate	"	1,195	100	86
- Lime (purchased) ***	"	39,914	-	373
- Other production materials				400

* Additional 2,500,000 Kw of electricity is internally supplied and not counted in the total.

** Steam fully internally supplied and the consumption value represents the operating costs of the steam plant other than labour costs.

*** In addition about 40,000 t of lime is internally produced.

VI. VALUE ADDED

(1965)

	Value (1000 US \$)
1. Wages & salaries	
- Employees in direct production (1316 persons)	2,005
- Other employees (120 persons)	716
2. Other payments for employees	640
3. Annual depreciation	1,118
4. Rentals paid	-
5. Interest & royalties	601
6. Sales tax (not incl. in TOTAL)	(210)
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	1,875

6,955**VII. MONTHLY EARNING RATES**

(End of 1965)

No. of employm.	Average earning rates (1000 US \$)
TOTAL:	76 ..
- Managers	3 1,600
- Engineers	17 120 - 1,280
- Technicians	15 240
- Accountants	10 320
- Sales officers	7 800
- Other professional staff	20 120
- Clerks & typists	11 144

2. Local operatives

No. of employm.	Average earning rates (1000 US \$)
TOTAL:	1,418 159
- Supervisors	13 520
- Foremen	20 288
- Machine operators	180 160
- Craftsmen	181 256
- Truck drivers	4 120
(*) Other full-time operatives ¹ ,100	116
- Unskilled & part-time operatives	.. ..

3. Foreign employees

No. of employm.	Average earning rates (1000 US \$)
TOTAL:	- -

(*) Includes quarry workers

3. Other materials & supplies

No. of employm.	Average earning rates (1000 US \$)
TOTAL:	1,384
- Packaging	40
- Repair & maintenance	5 1,200
- Non-factory service inputs	1 144

4. Business services purchased

No. of employm.	Average earning rates (1000 US \$)
TOTAL:	32
- Transport, storage & insurance	32
- Communication, advertisement, etc.	32

5. Work performed by sub-contractors

No. of employm.	Average earning rates (1000 US \$)
TOTAL:	112

5,438**VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY**

(1965)

Industry group: Basic industrial chemicals including fertilizers (INC: 311)

1. Size groups by number of persons employed	Number of units	Avg. no. per unit	Avg. gross prod. value (1000 US \$)	Avg. exp. gross prod. value (1000 US \$)
up to 25				
over 25	249	21,242	1,894	15,117

2. Size groups by units of annual production (1000 US \$)	Number of units	Avg. no. per unit	Avg. gross prod. value (1000 US \$)	Avg. exp. gross prod. value (1000 US \$)
up to 2				
over 2	385	21,457	1,875	14,970

TOTAL	385	21,457	1,875	14,970	113
* Capital is defined as physical capital assets.					

IX. SUPPLEMENTS**COMMISSION NOTES:**

For transport only. No formal contract but occasional use of the services of individuals owning private trucks.

GOVERNMENT POLICIES:

Excellent general government policies. However, measures to increase the mobility of labour force are desired.

FUTURE PLANS:

During 1966 - 1973 approximately US \$ 5 million will be invested for general expansion. No additional labour will be employed, however.

Major Products:

Acetone, ketones and acetates. Annual capacity output is 7,000 to 8,000 tons of these products; three-shift operation.

Reporting Unit:

A branch of a private corporation with 40% participation of foreign capital. The plant was purchased in 1961 from another corporation which had already operated it for several years.

V. ANNUAL PRODUCTION

(1967)		Yr. of first prod.	Quantity produced Unit	Avg. unit price ex factory (US \$)	Total output value (1000 US \$)
Products for group of products					
Tyres	- 1900	t	36,000	1,270	45,600
Bicycle tyres	1900	t	2,600	1,355	3,520
V-belts	1948	t	350	2,453	735
Conveyor belts	1949	t	860	1,408	1,208
TOTAL VALUE OF PRODUCTION:				51,063	

VI. VALUE ADDED

(1967)		Total value 1000 US \$)
1. Annual wages & salaries		9,063
- Operative workers (2,680 persons)	5,967	
- Non-operative workers (451 persons)	3,096	
2. Other payments for employees		
3. Annual depreciation		2,107
- Machinery & equipment		3,800
- Buildings & other facilities	3,800	
- Non-physical capital assets		
4. Rentals paid		360
5. Interest & royalties		1,430
6. Sales tax		1,890
7. Other indirect business taxes	(*)	30
8. (-) Subsidies		-
9. Corporate income before tax		2,458
(*) Item 2.-8. see page 4/XII. Supplements		
TOTAL VALUE ADDED:	21,138	

DESCRIPTION OF MAJOR PRODUCTS:

Tyres of all kinds for: Cars, trucks, heavy trucks, buses, coaches, military vehicles, earth moving equipment, farm tractors, agricultural machinery, farm trailers, fork-lift trucks, hand carts, wheel harrows, battery-electric vehicles, motorcycles, scooters, mopeds and bicycles.

Accessories and repair materials for: Motor vehicles, bicycles, etc.

Materials for the vulcanizing and reworking trade.

Mechanical products: Conveyor belts, elevator belts, flat belting, high-speed belts, fan belts, escalator handrails, flexible rubber doors.

All products are manufactured in series and correspond to international standards. Prompt delivery.

MARKET ASPECTS:

Re-sale:

Insignificant.

Consumers of products:

Automobile industry, service stations, mining industry, building trade, etc.

Sales organisation:

Regional depots and branch offices supply domestic retail trade. Subsidiary companies at home and abroad. Representatives in more than 100 countries throughout the world.

Sales area:

114 countries throughout the world. Largest part of exports is shipped to European countries, North America, and Africa.

Durability of products: 1 1/2 - 2 years.

Share in the domestic market:

Tyres: 45%. Bicycle tyres: 90%. Conveyor belts: 55%.

EXPORT:

Total annual export: US \$ 18,400,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Tyres	75%	15%	10%

Export price policy:

Depending on market situation.

Competition in the market:

Imported goods are frequently sold below market prices. Company meets foreign competition with higher quality of products and better service.

Governmental policies:

The government subsidises exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)		Quantity consumed Unit	% import	Average import duty (1000 US \$)	Total consumption value 1000 US \$)
1. Energy and water					
TOTAL:					998
- Electricity	000 kWh	35,812 (*)	-	-	502
- Fuel oil (heavy)	t	3,093	-	-	66
- Natural gas	000 m³	12,986	-	-	314
- Water	000 m³	5,135 (**)	-	-	26
- Steam	t	181 (***)	-	-	-
TOTAL:					998
2. Production materials					22,204
TOTAL:					22,204
- Natural rubber	t	8,437	100	-	3,797
- Synthetic rubber	t	11,777	100	-	3,977
- Textiles	t	4,285	17	59	6,589
- Chemicals	t	17,398	80	248	4,811
- Reclaimed rubber	t	2,284	- 25	-	165
- Other materials		..			3,585

(*) Not including internal supply of 11,903,000 kWh.

(**) Not including internal supply of 9,585,000 m³ of water.

(***) Internally supplied.

	Total consumption value 1000 US \$)
3. Other materials & supplies	623
TOTAL:	249
- Packaging material	
- Parts, supplies & services	362
- Other materials & supplies	12
4. Business services purchased	6,100 (*)
TOTAL:	..
- Transportation, storage & insurance	-
- Communication, advertising & other business services	..
5. Work performed by subcontractors	-
TOTAL:	-

TOTAL VALUE OF CONSUMPTION: 29,985

(*) See page 4/XII. Supplements.

IV. ANNUAL PRODUCTION(1965)
Products for group of products

	Yr. of first prod.	Quantity produced	Nominal = capacity output	Unit price at factory (US \$)	Total production value (1000 US \$)
	Unit	Output			
- Acetone	1962	t	1,243	2,000	0.28/kg 348
- Methyl ethyl ketone	1963	"	812	..	0.42/" 341
- Ethyl acetate	1961	"	1,494	2,800	0.47/" 702
- Butyl acetate	1964	"	213	1,000	0.46/" 98
- Isopropyl acetate	1965	"	190	..	0.41/" 77

TOTAL VALUE OF PRODUCTION: 1,566

* Assuming a three-shift 285 days/year operation

PRICES OF COMPETING IMPORTS:

	Price c.i.f., without tariff	Tariff/ rate
Acetone	US \$ 0.14/kg	45%
Methyl ethyl ketone	" 0.28/"	52%
Ethyl acetate	" 0.28/"	40%
Butyl acetate	" 0.28/"	71%
Isopropyl acetate	" 0.25/"	69%

EXPORTS: None.**CAPACITY UTILIZATION:**

50 -60%. The nominal capacity output has not been achieved yet. Reasons unspecified.

V. ANNUAL CONSUMPTION

(1965)

1. Energy and water

	Unit	Quantity consumed	% Imported	Total rate	Total consumption value 1000 US \$
TOTAL:					64
- Electricity	000 Kwh	1,640	-	-	29
- Liquid fuels and lubricants (including gas and gasoline)		..	-	-	35

2. Production materials

					Total consumption value 1000 US \$
TOTAL:					990
- Isopropyl alcohol	t	1,490	100	149	181
- Ethylene alcohol	"	967	-	-	255
- Methylene alcohol	"	160	100	58	42
- Sec. "	"	878	100	320	159
- Acetic acid	"	1,332	-	309 *	309
- Others					44

* Accounting price for internal transactions within the parent company

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group basic industrial chemicals, including fertilizers (NMC:311)

	Am. number of persons employed	Number of establish- ments	Am. W. & S. per pers. 1000 US \$	Am. prod. val. per pers. 1000 US \$	Am. exp. per pers. 1000 US \$	Total consumption value 1000 US \$
up to 25						
over 25	249	21,242	1,894	15,117	113	113
TOTAL:	249	21,242	1,894	15,117	113	113
2. Am. groups by size of annual production 1000 US \$:						
up to 2	2	385	21,457	1,875	14,970	113
TOTAL:	385	21,457	1,875	14,970	113	113

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1965)	Value (1000 US \$)
1. Wages & salaries	
- Employees in direct production (72 persons)	70
- Other employees (11 persons)	66
2. Other payments for employees	23
3. Annual depreciation	202
4. Rentals paid	-
5. Interest & royalties	-
6. Sales tax (not incl. in TOTAL)	()
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	51

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VII. MONTHLY EARNING RATES

(End of 1965)	No. of pers. avg. exp. 1000 US \$	Average earning rate
1. Local non-operatives		
TOTAL:	12	26
- Managers	6	400
- Engineers	4	220
- Technicians	4	240
- Accountants	2	-
- Sales officers	2	-
- Other professional staff	2	-
- Clerks & typists	3	140

2. Local operatives

TOTAL:	65	86
- Supervisors	6	200
- Foremen	6	60
- Machine operators	17	91
- Craftsmen	6	100
- Truck drivers	2	91
- Other full-time operatives	19	51
- Unskilled & part-time operatives	2	-
- Others (guards)	1	12

3. Foreign employees

TOTAL:	-	-

3. Other materials & supplies

TOTAL:	61	
- Packagings	-	
- Repair & maintenance	59	
- Non-factor service inputs	2	

4. Business services purchased

TOTAL:	22	
- Transport, storage & insurance	10	
- Communication, advertisements, etc.	12	

5. Work performed by sub-contractors

TOTAL:	-	-

1,114

IX. SUPPLEMENTS**GOVERNMENTAL POLICIES:**

The survival of this plant is protected by the tariff barrier on competitive imports.

FUTURE PLANS:

None.

Major Products: Rayon filament, short rayon fiber, cellophane, rayon rope for tyres.

Capable of producing annually about 15,000 t on 3-shift operation.

Reporting Unit: A branch-establishment of a fairly decentralized multi-establishment enterprise; founded in 1948; privately owned; foreign capital participation 44-45%.

I. FIXED CAPITAL ASSETS			Year of installa- tion	Orig. pur- chase value (\$000 US \$)	Replace- ment value (\$000 US \$)
1. Primary process equipment					
TOTAL				18,149	..
- Process equipment				18,149	..
- Hand tools & apparatuses					
- Cost of installation (incl. in process equipment)					
2. Primary industrial building				2,343	..
TOTAL				2,343	..
(total floor space: 54,615 m ²)				2,343	
3. Auxiliary facilities				1,064	..
TOTAL				1,064	..
- Water, steam, electricity, cooling & storing				334	
- Transportation facilities					..
- Administrative facilities				730	
- Laboratory facilities				-	
TOTAL PHYSICAL FIXED CAPITAL ASSETS				21,556	..
Including land:					
4. Other fixed capital assets				free	..
TOTAL				free	..
- Land (total acreage: 150,000 m ²)				free	..
DETAIL OF PROCESS EQUIPMENT (incl.):	Supplier country	Year of installa- tion	Orig. pur- chase value (\$000 US \$)	Replace- ment value (\$000 US \$)	
Crushers and cellulose presses					
Reactors		40-50% of the value in 1948.			
Nitration tanks		..		..
Extruders					
Recovering tower		The rest in 1954 to 1958.			
Extracts recovery plant					
Storing tanks					

HISTORY OF INVESTMENT:

The factory construction started in 1947. Both the trial production and first commercial production took place in the next year. The following major investments have since been made:

(000 US \$)	
1944	2,200 for initiation of a new process for short viscose rayon fibre production
1945	1,300 for initiation of rayon ropes for tyres
1947	1,100 for initiation of cellophane production
1958	6,000 for expansion of the continuous preparation process
1963	1,000 for expansion of cellophane production
(1968) (1,800)	(for further expansion of cellophane production)

CAPACITY POWER:	Generating equipment: Installed capacity	- kVA
Process equipment:		
- Electric motors	6,100 kW	
- Other prime movers	11,000	

EXTERNAL CONDITIONS:

Transport: Long distance, excellent; local area, fair.

Utilities: Electricity and water, excellent.

Community: Residential, excellent; health and recreational, educational, fair.

II. INVENTORIES AND WORKING CAPITAL

(\$000 US \$)

(End of 1966)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL:	2,172	TOTAL:	90
- Production materials	785	- Cash (hand/bank)	90
- Other input materials	216	- Market, sec. & bonds	-
- Work-in-process	166	- Short-term investment	-
- Finished products	1,005	- Prepaid expenses	-
		- Accounts receivable	-

3. Desired working capital

Number
of months

Value

TOTAL:	751
- Production materials	2 131
- Other input materials	2 36
- Finished products	1,5 130
- Wages & salaries	2 454
- Other special items	- -

III. MANNING TABLE

Number of persons

A = Machine operators
B = Other operators

(1966 average)	Total	1st shift	2nd shift	3rd shift
ALL SHOPS & UNITS:	(*) 1,080	518	281	281
1. Primary operative shops	691	231	-	230
- Rayon filament department	190	130	-	130
- Short rayon fibre department	105	35	-	35
- Cellophane department	84	28	-	28
- Rayon rope for tyres	112	38	-	37
(*) Excludes the 350 extra hands used during the year on an emergency basis.				
2. Auxiliary operative units	333	231	51	51
- Repair and maintenance	92	92	-	-
- Mechanical shop	88	88	-	-
- Utility control	99	33	33	33
- Product & material storage	-	-	-	-
- Off-site transport	-	-	-	-
- Guards, cleaners, etc.	-	-	-	-
- Others (yard)	54	18	18	18
3. Auxiliary non-operative units	56	56	-	-
- Production management	-	-	-	-
- Research & development	-	-	-	-
- Sales unit	-	-	-	-
- General administration	-	-	-	-
- Others (engineering and projects)	56	56	-	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day:	8 hours	- Normal days/year:	303 days
Actual hours/year:	2,424 hours		

CAPACITY OF OPERATIVE SHOPS:

All processes are considered to be well balanced.

Technical advantages connected with the participation of foreign capital:

- Training of personnel
- Patents and "know-how" involved in the basic production; materials supplied from abroad
- Marketing of products

Other establishments in the same parent company:

Type of activities

Type of activities	Total No. of employees
Nylon, acetate, polyester	1,925
Nylon	470
Cellulose	220
Central office	382

There are no particular advantages of having these sister branches for the operation of this branch.

IV. ANNUAL PRODUCTION

(1966)
Products for group of products

	Yr. of first prod.	Quantity produced	Nominal capacity output	Unit (*) price at factory US \$	Total production value 1000 US \$
	Unit	Output			
Rayon filament	1948	t	4,747	4,400	1.62/kg 7,690
Short rayon fibre	1951	t	4,910	6,000	0.81/kg 3,977
Cellophane	1957	t	3,316	3,200	1.20/kg 3,979
Rayon rope for tyres	1955	t	1,250	1,300	1.57/kg 1,962
TOTAL VALUE OF PRODUCTION					17,608

(*) Unit prices exclude sales tax charges
but are averaged including discounts.

TARIFF RATES FOR COMPETING IMPORTS ARE:

Rayon filament	US \$ 0.16/kg + 45% ad valorem
Short rayon fibre	" " 0.04/kg + 50% "
Cellophane	" " 0.80/kg + 100% "
Rayon rope for tyres	" " 0.08/kg + 7% "

EXPORTS:

Part of rayon filament is exported at a unit price of US \$ 1.40/kg.

CAPACITY UTILIZATION:

Practically 100%. Nominal capacity output is based on continual 3-shift operation
for 360 days per year.

V. ANNUAL CONSUMPTION

	Quantity consumed			Total consumption value	
(1966)	Unit	Purchase	% Imported	Tariff rate	1000 US \$
1. Energy and water					
TOTAL:					2,086
- Electricity	000 Kwh	400	-		10
- Petroleum	000 l	64,452	-		833
- Steam	000 m³	1,480	-		1,152
- Water	000 m³	13,882	-		91
2. Production materials					7,245
TOTAL:					7,245
- Wood pulp	t	11,003	100	US \$ 8.8/t	2,573
- Caustic soda	"	9,078	-	+ 5%	1,265
- Carbon bisulphide	"	3,966	-	-	626
- Sulphuric acid	"	15,290	-	-	475
- Cotton shoddy	"	2,561	-	-	578
- Nitrocellulose	"	122	100	US \$ 1.6/t	140
- Glycerine	"	267	-	+ 4%	199
- Others	..	1,672	-	-	887
(Net decumulation of inventories)					(+ 501) (*)

(*) Annual purchases; the total annual consumption was larger by US \$ 0.5 million.

VI. VALUE ADDED

(1966)	Value 1000 US \$
1. Wages & salaries	
- Employees in all shops (*) (1,080 persons)	2,471
- Other employees (*) (350 persons)	251
2. Other payments for employees	616
3. Annual depreciation	1,216
4. Rentals paid	-
5. Interest & royalties	18
6. Sales tax (not incl. in TOTAL)	(158)
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate incomes before tax	2,172
TOTAL:	6,744

(*) See note in IX.

VII. MONTHLY EARNING RATES

No. of per. emp.	Average earning per. month US \$
(End of 1966)	
1. Local non-operatives	
TOTAL:	154 260
- Managers	3 320
- Engineers	28 480
- Technicians	48 320
- Accountants	3 360
- Sales officers	- -
- Other professional staff	- -
- Clerks & typists	72 128
2. Local operatives	
TOTAL:	955 154
- Supervisors	- -
- Foremen	43 176
- Machine operators	579 152
- Craftsmen	279 168
- Truck drivers	- -
- Other full-time operatives	54 84
- Unskilled & part-time operatives	- -

No. of per. emp.	Average earning per. month US \$
3. Foreign employees	
TOTAL:	1 400
- Engineers, trainers and other technical control staff	1 400

Total consumption value 1000 US \$	% imp.	Total consumption value 1000 US \$
3. Other materials & supplies		
TOTAL:		1,432
- Packaging	100	348
- Repair & maintenance	-	971
- Non-factor service inputs	-	114
4. Business services purchased		
TOTAL:		102
- Transport, storage & insurance		102
- Communication, advertisements, etc.		-
5. Work performed by sub-contractors		
TOTAL:		

10,504

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)		Industry group: Basic industrial chemicals, including fertilizers (SIC: 311)			
No. of persons employed	Number of units	Av. per unit	Av. per emp.	Av. exp. per unit	Av. exp. per emp.
Up to 25					
over 25	249	21,242	1,094	15,117	113
TOTAL	249	21,242	1,094	15,117	113
2. One group by size of annual production 1000 US \$					
Up to 2					
over 2	385	21,457	1,075	14,970	113
TOTAL	385	21,457	1,075	14,970	113

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

Wages and salaries:

The US \$ 2,47 million for 1,080 persons are those on the branch's normal payroll. The remaining 350 are assistants called in from other branches of the parent company on a temporary basis.

Future plan:

Within the next 3 years approx. US \$ 12 million will be invested for renovation of rayon process equipment as well as for expansion of cellophane production.

Government policies:

Import licenses for production materials must be obtained through the Ministry of Industry and Commerce. For nitrocellulose import authorization must be obtained through the Ministry of National Defense.

Major Products:

Organometallic antidentalon compounds based on tetraethyl lead. Ethylation capacity is 14,756 t; 3 shift operation.

Reporting Unit:

A one-establishment enterprise, founded in 1960. Mixed private foreign and public national ownership; foreign capital participation 49%. The rest is all public (national capital).

I. FIXED CAPITAL ASSETS				II. INVENTORIES AND WORKING CAPITAL			
				Um 000 US \$			
(End of 1966)				(End of 1966)			
1. Primary process equipment	Year of installation	Orig. purchase value 1000 US \$	Replacement value 1000 US \$	1. Inventories	Actual value 1000 US \$	2. Liquid assets	Actual value 1000 US \$
TOTAL:		3,726	3,912	TOTAL:	1,744	TOTAL:	1,213
- Process equipment	1964	2,225	2,336	- Production materials	747	- Cash (hand/bank)	325
- Hand tools & apparatuses		108	114	- Other input materials	431	- Market. sec. & bonds	146
- Cost of installation		1,393	1,462	- Work-in-process	107	- Short-term investments	-
2. Primary industrial building		2,024	2,125	- Finished products	459	- Prepaid expenses	13
TOTAL:		2,024	2,125			- Accounts receivable	529
(total floor space: .. m ²)	1964			3. Desired working capital	Number of persons		
		2,024	2,125	TOTAL:	2,028		
3. Auxiliary facilities		2,512	2,617	- Production materials	1.5	- Production materials	474
TOTAL:				- Other input materials	1.5	- Other input materials	355
- Water, steam, electricity, cooling & storing	1964	1,927	2,023	- Finished products	1	- Wages & salaries	614
- Transportation facilities	1964	124	130	- Wages & salaries	1	- Other special items	65
- Administrative facilities	1964	93	98		1		520
- Laboratory facilities	1964	110	115				
- Others	1964	258	274				
TOTAL PHYSICAL FIXED CAPITAL ASSETS		8,262	8,674				
Including land:							
4. Other fixed capital assets		69	73				
TOTAL:							
- Land (total acreage: .. m ²)	.. m ²	69	73				
- Others (construction)							
DETAIL OF PROCESS EQUIPMENT (no.):				Supplier country	Year of installation	Orig. purchase value 1000 US \$	Replacement value 1000 US \$
- Lead melting pot	(1)	Mexico	1964	18.0		18.9	
- Lead recovery furnace	(1)	Mexico	1964	63.0		66.2	
- Melting pot for alloy fabrication	(1)	Mexico	1964	11.0		11.5	
- Alloy packing equipment	(1)	Mexico	1964	48.6		51.0	
U.S.A.							
- Ethylation autoclaves	"	1964	187.1		196.5		
- Crude TEP distillers	Mexico	1964	52.7		55.5		
- TEP purifiers	Mexico	1964	4.2		4.5		
- Compound mixers	Mexico	1964	6.4		6.7		
- Storage tanks	Mexico	1964	95.4		100.2		
- Others	Mexico	1964	1,737.8		1,824.7		
U.S.A.							
HISTORY OF INVESTMENT:							
The factory was constructed in 1962. The trial production started in 1964 and the first commercial production in 1965. The factory made its first profits in March 1966, when 67.5% of the installed capacity was utilized.							
No significant expansion investment has been undertaken since.							
CAPACITY POWER:				Generating equipment:			
Process equipment:	- Installed capacity:	-	kVA	-	-	-	-
- Electric motors: 1,904 kW							
EXTERNAL CONDITIONS:							
Transport: Long distance, fair; local area, poor.							
Utilities: Electricity, water and gas, fair.							
Community: Residential, health and recreational, educational, all poor; transport facilities for operatives and employees have to be provided (annual costs US \$ 700,000), also contribution for costs of living.							
III. MANNING TABLE							
Number of persons							
A = Machine operators B = Other operators							
(1966 average)							
Total							
1st shift				2nd shift			
A				B			
1. Primary operative shops				2. Liquid assets			
236				TOTAL:			
52				1,213			
- Alloy department				- Cash (hand/bank)			
24				325			
- Ethylation department				- Market. sec. & bonds			
28				146			
3. Desired working capital							
Number of persons							
A = Machine operators B = Other operators							
(1966 average)							
Total							
1st shift				2nd shift			
A				B			
ALL SHOPS & UNITS:							
236							
52							
136							
13 5							
53							
13 4							
47							
13 2							
10							
7 2							
2. Auxiliary operative units							
66							
1st shift				2nd shift			
A				B			
- Repair and maintenance							
35							
17							
9							
- Mechanical shop							
8							
8							
-							
- Utility control							
8							
4							
4							
- Product & material storage							
1							
4							
2							
- Off-site transport							
-							
- Guards, cleaners, etc.							
8							
8							
-							
3. Auxiliary non-operative units							
118							
1st shift				2nd shift			
A				B			
- Production management							
32							
26							
3							
-							
- Research & development							
-							
-							
- Sales unit							
3							
3							
3							
-							
- General administration							
21							
21							
-							
- Indirect supervision							
46							
29							
13							
13							
- Laboratory							
11							
4							
4							
3							
1							
1							
- Medical service							
5							
3							
1							
1							
WORKING TIME FOR OPERATIVE WORKERS:							
- Normal hours/day:				- Normal days/year:			
8 hours				297 days			
- Actual hours/year:				hours			
2,376 hours							
CAPACITY OF OPERATIVE SHOPS:							
Nominal capacity output of ethylation department is 14,756 t; 75.5% of capacity is utilized. Full automation and mechanisation.							
TECHNICAL ADVANTAGES CONNECTED WITH THE PARTICIPATION OF FOREIGN CAPITAL							
- 24 technicians were trained for 5 months in the foreign enterprise which takes a partnership.							
- Supply of machinery designs and supervision of construction.							
- Supply of production techniques and security norms.							

IV. ANNUAL PRODUCTION

(1966)

Products for group of products

Organometallic antidentalant compounds (tetraethyl lead based)

Yr. of first prod.	Unit	Quantity produced	Nominal capacity output	Unit price ex-factory (US \$)	Total production value (1000 US \$)
1965	t	10,840	14,756	806.56	8,743

TOTAL VALUE OF PRODUCTION: 8,743**COMPETITIVE IMPORTS:**

C.i.f. price without tariff US \$ 778.32/t. Tariff rate US \$ 16.32.

EXPORTS:

Exports are made at a unit price of US \$ 784.64/t.

CAPACITY UTILIZATION:

Under utilization due to lack of demand.

Nominal capacity is calculated on a three-shift basis, 357 working days/year; average operability of equipment 89.7% and a chemical yield (based on sodium) 87.34%.

V. ANNUAL CONSUMPTION

(1966)

1. Energy and water

TOTAL:

	Unit	Quantity consumed	% imported	Tariff rate	Total consumption value (1000 US \$)
- Electricity	000 kWh	9,148			156.5
- Petroleum	000 l	58.4			4.6
- Fuel oil	"	25.1			0.2
- Diesel oil	"	2.8			0.1
- Gas	000 m ³	8,586.0			70.6

2. Production materials

TOTAL:

	Unit	Quantity consumed	% imported	Tariff rate	Total consumption value (1000 US \$)
- Lead	t	4,389.1	-		1,017
- Metallic sodium	"	2,226.3	100 %	61.6 /t	894
- Ethyl chloride	"	6,791.2	"	84.64/"	1,228
- Ethylene dichloride	"	2,037.3	"	16.64/"	259
- Ethylene dibromide	"	2,003.7	"	32.56/"	741
- Others		..			61

4,200

VII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1966)

Industry group: Basic industrial chemicals including fertilizers (ISIC: 311)

1. Size groups by number of persons employed	Number of units	Avg. W & E per unit	Avg. gross prod. per unit	Avg. exp. per unit	Total
up to 25					
over 25	249	21,242	1,894	15,117	113

TOTAL	249	21,242	1,894	15,117	113
2. Size groups by size of annual production 1000 US \$					

up to 2					
over 2	385	21,457	1,875	14,970	113

TOTAL	385	21,457	1,875	14,970	113
* Capital is defined as physical capital assets					

VI. VALUE ADDED

(1966)

	Value (1000 US \$)
1. Wages & salaries	
- Employees in direct production (118 persons)	221
- Other employees (118 persons)	557
2. Other payments for employees (See IX)	310
3. Annual depreciation	914
4. Rentals paid	219
5. Interest & royalties	734
6. Sales tax (not incl. in TOTAL)	(4)
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	655
	3,610

VII. MONTHLY EARNING RATES

(End of 1966)

No. of persons	Average earning rate (US \$)
TOTAL:	339
- Managers	1,560
- Engineers	-
- Technicians	800
- Accountants	646
- Sales officers	-
- Other professional staff	-
- Clerks & typists	340

2. Local operatives

No. of persons	Average earning rate (US \$)
TOTAL:	206
- Supervisors	1,100
- Foremen	560
- Machine operators	180
- Craftsmen	160
- Truck drivers	160
- Other full-time operatives	160
- Unskilled & part-time operatives	-

3. Foreign employees

No. of persons	Average earning rate (US \$)
TOTAL:	2,400
- Managerial staff	2,400

No. of persons	Average earning rate (US \$)
TOTAL:	235

3. Other materials & supplies

No. of persons	Average earning rate (US \$)
TOTAL:	-
- Packaging	-
- Repair & maintenance	179
- Non-factor service inputs	56

4. Business services purchased

No. of persons	Average earning rate (US \$)
TOTAL:	466

- Transport, storage & insurance

- Communication, advertisements, etc.

No. of persons	Average earning rate (US \$)
TOTAL:	-

5,133

X. SUPPLEMENTS**"Other payments for employees"**

Due to the poor infrastructural facilities in the area, the enterprise purchases transport services for the commuting of both operatives and non-operatives up to US \$ 56,000 annually. Also post adjustments for the local cost of living amount to US \$ 100,000 annually.

FUTURE PLANS:

From 1970 to 1971, approximately US \$ 4 million will be invested.

Additional labour to be employed:

1st shift	10 persons
2nd shift	8 "
3rd shift	6 "

GOVERNMENT POLICIES:

Public investment in educational, medical, recreational and transport facilities in the locality of this enterprise is strongly desired.

Major Products:

Various adhesives and related chemicals (modifications and synthesis of formaldehyde; adhesives, etc.)

The actual annual output in 1967 was 12,695 t.

Reporting Unit:

A centralised multi-factory enterprise; founded originally in 1941 and expanded gradually over the last decade.

Privately owned; no participation of foreign capital.

I. FIXED CAPITAL ASSETS

(End of 1967)

1. Primary process equipment

TOTAL

- Process equipment
- Hand tools & apparatuses
- Cost of installation

Year of installation	Orig. purchase value 1960 US \$	Replacement value 1960 US \$
	2,414.7	..
	1,526.0	..
	888.7	..

2. Primary industrial building

TOTAL

(total floor space: 22,000 m²)

442.5	..
442.5	..

3. Auxiliary facilities

TOTAL

- Water, steam, electricity, cooling & storing
- Transportation facilities
- Administrative facilities
- Laboratory facilities and investigation fac.
- Others (barrels and containers)

619.8	..
246.8	..
48.0	..
116.6	..
174.6	..
33.8	..

TOTAL PHYSICAL FIXED CAPITAL ASSETS

(including land):

3,477.0	..
360.3	..

4. Other fixed capital assets

TOTAL

- Land (total acreage: 310,000 m²)

360.3	..
360.3	..

DETAIL OF PROCESS EQUIPMENT (in \$):

Supplier country

Year of installation	Orig. purchase value 1960 US \$	Replacement value 1960 US \$
Crucibles and mills	12.9	..
Pumps	176.5	..
Dryers	233.0	..
Centrifuges and separators	57.2	..
Tanks and pipes	Mostly	209.8
Compressors	1955	104.0
Reactors	- 1966	151.4
Mixers		76.6
Motors		84.0
Pipelines and attachments		300.3
Others		16.2

HISTORY OF INVESTMENT:

The construction of the factory started in 1952. The first trial production started in 1952, the first commercial production in 1953. The first profits were also made in 1953. Following investments for the expansion of the whole enterprise were made:

1954	approx. US \$	96,000
1956	"	56,000
1957	"	120,000
1961	"	400,000
1962	"	200,000
1963	"	840,000
1964	"	400,000
1966	"	800,000
1967	"	640,000

CAPACITY POWER:

Process equipment:

Electric motor:

Generating equipment:

Installed capacity:

kVA

EXTERNAL CONDITIONS:

Transport:

Utilities: - all fair

Community: -

II. INVENTORIES AND WORKING CAPITAL

In 1000 US \$

(End of 1957)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL:	1,725	TOTAL:	5,293
- Production materials	747	- Cash (hand/bank)	336
- Other input materials	-	- Market. sec. & bonds	2,122
- Work-in-process	178	- Short-term investment	1,072
- Finished products	800	- Prepaid expenses	626
		- Accounts receivable	1,137

3. Desired working capital

Number of months	Value
TOTAL	8,185
- Production materials	665
- Other input materials	-
- Finished products	772
- Wages & salaries	1,042
- Other special items	5,706

III. MANNING TABLE

Number of persons

A = Number operative
B = Other operative

(1967 average)

	Total	1st shift	2nd shift	3rd shift	1st shift
ALL SHOPS & UNITS:	577	385	115	77	
1. Primary operative shops	229	51	38	43	31
- Plant I	132	28	22	25	20
- Plant II	58	10	10	10	9
- Plant III	39	13	6	8	2

2. Auxiliary operative units

129	96	25	8
- Repair and maintenance	39	33	6
- Mechanical shop	-	-	-
- Utilities control	9	9	-
- Product & material storage	52	30	14
- Off-site transport	21	21	-
- Guards, cleaners, etc.	8	3	5

3. Auxiliary non-operative units

219	200	16	3
- Production management	24	16	3
- Research & development	51	40	11
- Sales unit	34	34	-
- General administration	110	110	-

WORKING TIME PER OPERATIVE WORKER:

Nominal hours/day: 8 hours Nominal days/year: 300 days

Nominal hours/year: 2,400 hours

CAPACITY OF OPERATIVE SHOPS:

IV. ANNUAL PRODUCTION

(1967)

Products (or group of products)

- Natural resins,
modifications and
synthesis of formaldehyde,
starchings,
adhesives, etc.

Yr. of first prod.	Quantity produced		Nominal capacity output	Unit price at factory (US \$)	Total production value (1000 US \$)
	Unit	Output			

(*)

TOTAL VALUE OF PRODUCTION

7,781

(*) The enterprise has a great variety of products.
The products shown above have to be taken as examples only.

EXPORTS: None.

CAPACITY UTILIZATION:

The plants are almost continually being modified, renovated or expanded. Due to the complexity of product-mix and process-mix, which requires flexible adjustments to changing patterns of demand and new production possibilities, the enterprise is not particular about any fixed notion of "nominal capacity output".

V. ANNUAL CONSUMPTION

(1967)

1. Energy and water

TOTAL:

Quantity consumed			Total	
	Unit	Purchase	% Imported	Consumption value (1000 US \$)
- Electricity	000 Kwh	1,088		22.6
- Liquid fuels and lubricants	000 l	19		4.8
- Gas	000 m ³	31		0.4
- Water	000 m ³	65		0.8

29

2. Production materials (*)

TOTAL:

- Metanol				
- Monomers of resins (of vinyl and others)				
- Asphalt				
- Wax, Latex				
- Starch, etc.				

..

3,656

(*) Approx. 800 different kinds of production materials are used.
These shown above have to be taken as examples only.

VI. VALUE ADDED

(1967)

	Value (1000 US \$)
1. Wages & salaries	
- Employees in direct production (330 persons)	294
- Other employees (247 persons)	1,164
2. Other payments for employees	210
3. Annual depreciation	295
4. Rentals paid	18
5. Interest & royalties	348
6. Sales tax (not incl. in P&A)	(213)
7. Other ind. bus. taxes	-
8. (-) Subsidies	(-)
9. Corporate income before tax	148

3,067

VII. MONTHLY EARNING RATES

(End of 1967)

No. of per. empl.	Average earning rate US \$
TOTAL:	
220	327
- Managers	920
- Engineers	400
- Technicians	160
- Accountants	480
- Sales officers	432
- Other professional staff	320
- Clerks & typists	208

2. Local operatives

No. of per. empl.	Average earning rate US \$
TOTAL:	
256	162
- Supervisors	624
- Foremen	120
- Machine operators	80
- Craftsmen	72
- Truck drivers	144
- Other full-time operatives	88
- Unskilled & part-time operatives	-

3. Foreign employees

No. of per. empl.	Average earning rate US \$
TOTAL:	

3. Other materials & supplies

No. of per. empl.	Average earning rate US \$
TOTAL:	
64	
- Packaging	7
- Repair & maintenance	60
- Non-factory service inputs	17

4. Business services purchased

No. of per. empl.	Average earning rate US \$
TOTAL:	
945	
- Transport, storage & insurance	307
- Communication, advertising, etc.	638

5. Work performed by sub-contractors

No. of per. empl.	Average earning rate US \$
TOTAL:	

4,714

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group: Basic industrial chemicals, including fertilizers (ISIC: 311)

1. Size groups by number of persons employed	Number of establish. units	Number of empl. units	Av. W. &. S. per pers. US \$	Av. gross prod. val. per pers. US \$	Av. exp. gross prod. ratio (%)
up to 25					
over 25	249	21,242	1,894	15,117	113

2. Size groups by size of annual production 1000 US \$:	Number of establish. units	Number of empl. units	Av. gross prod. val. per pers. US \$	Av. exp. gross prod. ratio (%)
up to 2				
over 2	385	21,457	1,875	14,970

TOTAL	249	21,242	1,894	15,117	113

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

Future plan:

Continual research and investment for new products and new processes.

Government policies:

No account has been given of the US \$ 20,000 subsidies received by the enterprise. But it is likely that some of the products, competing with imports, are being sold at subsidized prices.

Major Products: Phthalic anhydride. Capable of producing annually 1,400 t on 3-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1956; private corporation.

I. FIXED CAPITAL ASSETS

(End of 1965)

	Year of installa- tion	Orig. pur- chase value (1000 US \$)	Replacement value (1000 US \$)
1. Primary process equipment			
TOTAL		360	1,224
- Process equipment		480	664
- Hand tools & apparatuses		-	-
- Cost of installation		480	560
2. Primary industrial building	1958	48	64
TOTAL		600 m ²	48 m ²
(total floor space: 600 m ²)			
3. Auxiliary facilities			
TOTAL			
- Water, steam, electricity, cooling & storing			
- Transportation facilities			
- Administrative facilities			
- Laboratory facilities			
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):		1,008	1,288
4. Other fixed capital assets			
TOTAL		6	19
- Land (total acreage: 2,000 m ²)		6	19

DETAIL OF PROCESS EQUIPMENT (no.)	Supplier country	Year of installa- tion	Orig. pur- chase value (1000 US \$)	Replacement value (1000 US \$)
Compressore	6 USA	1958-61	112	160
Coavertore	3 USA	1958-61	24	32
Distiller	1 USA	1958	21	32
Condensore	3 Mexico	1965	96	120
Other equipment	.. USA	1958-61	223	320

HISTORY OF INVESTMENT:

The factory was constructed in 1956. The first trial as well as commercial production started in 1956. The factory became profitable after utilizing 60% of the capacity. The following investments were made in subsequent years:

Year	approx. amount invested (US \$ 000)	Main purposes
1959	120	Starting production of plasticizers
1961	480	Expansion of production of phthalic anhydride
1965	2,800	Construction of a new plant for phthalic anhydride production

CAPACITY POWER: Process equipment: - Electric motors:	Generating equipment: Installed capacity - kVA
600 kW	- kVA

EXTERNAL CONDITIONS:
Transport: Long distance, fair; local area, excellent.

Utilities: Electricity, fair; water and gas, excellent.

Community: Residential, fair; health and recreational, educational, poor;
Subsidies for sport, equipment and education grant.

II. INVENTORIES AND WORKING CAPITAL

In 1000 US \$

(End of 1965)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL	29	TOTAL	616
- Production materials	14	- Cash (hand/bank)	120
- Other input materials	-	- Market, sec. & bonds	-
- Work-in-process	9	- Short-term investment	-
- Finished products	6	- Prepaid expenses	-
		- Accounts receivable	496

3. Desired working capital

Number of months

Value

TOTAL

322

IV. ANNUAL PRODUCTION(1965)
Products for group of products

	Vt. of Prod.	Quantity produced	Nominal capacity output	Unit price or factory US \$	Total production value 1000 US \$
	Unit	Output			
Phthalic anhydride	t	1,370	1,400	0.6/kg	798
TOTAL VALUE OF PRODUCTION				798	

COMPETING IMPORTS:

C.I.F. price of competing imports of phthalic anhydride amounts to US \$ 0.4 per kg.
Tariff rate is US \$ 0.4 per gross kg and 4% ad valorem.

EXPORTS:

None.

CAPACITY UTILIZATION:

The installed capacity is being fully utilized and an additional plant of 5,000 t
is being constructed as of the year of reference. (This new plant, not covered in this
profile data, started operation in 1967).

V. ANNUAL CONSUMPTION(1965)
1. Energy and water
TOTAL:
- Electricity
- Gas
- Water

	Quantity consumed		Total consumption value 1000 US \$	
	Unit	Purchase	% Imported	Tariff rate
	000 kWh	2,520	-	40
	000 cu3	1,799	-	17
	000 cu3	97	-	2
TOTAL				59
- Naphthalene	t	1,640	30	US \$ 0.04 + 12%
				229

2. Production materials
TOTAL:**VI. VALUE ADDED**

(1965)	Value (1000 US \$)
1. Wages & salaries	
- Employees in direct production (44 persons)	49
- Other employees (24 persons)	72
2. Other payments for employees	32
3. Annual depreciation	155
4. Rentals paid	-
5. Interest & royalties	16
6. Sales tax (not incl. in TOTAL)	(15)
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	121
	465

VII. MONTHLY EARNING RATES

(End of 1965)	No. of per emp.	Average earning rate US \$
1. Local non-operatives		
TOTAL:	26	375
- Managers	1	1,200
- Engineers	6	600
- Technicians	-	-
- Accountants	1	640
- Sales officers	-	-
- Other professional staff	-	-
- Clerks & typists	18	240
2. Local operatives	42	124
TOTAL:		
- Supervisors	4	144
- Foremen	-	-
- Machine operators	35	120
- Craftsmen	3	144
- Truck drivers	-	-
- Other full-time operatives	-	-
- Unskilled & part-time operatives	-	-
3. Foreign employees		
TOTAL:		

	Total consumption value 1000 US \$
3. Other materials & supplies	17
TOTAL:	
- Packagings	5
- Repair & maintenance	8
- Non-factor service inputs	4
4. Business services purchased	
TOTAL:	2
- Transport, storage & insurance	2
- Communication, advertisements, etc.	-
5. Work performed by sub-contractors	
TOTAL:	26
	333

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)					
Industry group: Basic industrial chemicals, including fertilizers (INC: 311)					
1. Size groups by number of persons employed:	Number of units	Number of emp.	Av. W. & S. per pers.	Av. pers. per unit	Av. exp. pers/pers. unit* US \$
up to 25					
over 25	249	21,242	1,094	15,117	113
TOTAL	249	21,242	1,094	15,117	113
2. Size groups by value of annual production 1000 US \$:					
up to 2					
over 2	385	21,457	1,075	14,970	113
TOTAL	385	21,457	1,075	14,970	113

* Capital is defined as physical capital assets.

IX. SUPPLEMENTSComission work:

Transport of production materials and finished products is done
by sub-contractors.

Government policies:

Electricity and freight tariffs are very high compared with those
in other countries. Also import tariffs for capital goods are high.
The prices of imported parts for maintenance are thus 100% higher
than the factory delivery prices of the suppliers.

Future plan:

Within the period 1968-1970, approx. US \$ 2 million will be
invested for the installation of a new plant. Additional 40 operatives
(10 substitutes) will be employed. In the new plant orthoxylene,
instead of naphthalene, will be used. Capacity will be 5,000 t per
year.

Major Products: Synthetic resins, moulded plastic compounds, saccharines.

In 1967 the total output amounted to 12,400 t of synthetic resins and to 16 t of saccharines based on 3-shift and 1-shift operation, respectively. Full-capacity output amounts to US \$ 4.6 million.

Reporting Unit: A one-establishment enterprise; founded in 1910 (production of saccharines was started in 1919, of synthetic resins in 1947); privately owned; approximately 300 employees; dominant position in the domestic market for saccharines and moulded plastic compounds; high rate of exports (30% of total value of annual production); own research activities; active balance of licensees.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value 1966 US \$	Replace ment value 1966 US \$	Ave age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	2,205	3,243	
- Process equipment *	2,163	3,189	9
- Hand tools & apparatuses	42	54	-
2. Buildings	814	1,935	
TOTAL	438	1,045	20
- Primary industrial buildings (total floor space: 7,800 m ²)	192	457	15
- Auxiliary buildings	108	255	25
- Warehouses	46	108	25
- Office administration buildings	30	70	30
3. Auxiliary facilities (excl buildings)	642	855	
TOTAL	395	580	8
- Internal power equipment			
- Laboratory facilities	58	85	6
- Means of transportation	89	47	2
- Office equipment	97	143	8
TOTAL PHYSICAL FIXED ASSETS (excluding land)	3,661	6,033	
4. Other fixed capital assets	158	422	
TOTAL	28	182	-
- Land (total acreage: 35,900 m ²)	35	97	-
- Land improvements (e.g. 19,500 ")	95	143	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	up to 100 US \$	100-140 US \$	140-160 US \$	160-240 US \$	240-360 US \$	over 360 US \$
--	--------------------	------------------	------------------	------------------	------------------	-------------------

1. Local non-operatives

- Managers	-	-	-	-	-	5
- Engineers	-	-	-	-	-	4
- Technicians	-	-	-	4	24	-
- Accountants	-	-	-	-	4	-
- Sales officers	-	-	-	-	10	-
- Clerks and typists	-	-	-	12	6	-
- Supervisors	-	-	-	-	7	-

2. Local operatives

- Supervisors (*)	-	-	-	-	-	-
- Foremen	-	-	-	3	-	-
- Skilled operatives	-	-	-	37	-	-
- Machine operators	-	-	-	49	-	-
- Craftsmen	-	-	-	23	7	-
- Truck drivers	-	-	-	8	-	-
- Unskilled operatives	-	-	-	12	-	-
- Other full-time operatives	-	-	-	54	-	-
- Part-time operatives	-	-	-	-	-	-

3. Foreign employees

- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

(*) Company considers supervisors as local non-operatives.

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport: external long distance fair

internal long distance "

local and city "

Utilities: electricity fair

water "

gas "

Community: residence fair

health and recreation excellent

education "

Own Welfare Facilities: -

III. INVENTORIES

(End of 1967)

	Actual value 1966 US \$	Number of months
--	----------------------------	------------------

Inventories	712	
TOTAL:		
- Production materials	310	1
- Other input materials	15	1
- Work-in-process	-	-
- Finished products	387	1

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day:	8.6	8.6	8.6	hours
Actual hours/year:	1,952	1,952	1,952	days
Actual days/year:	220	228	228	

IV. MANNING TABLE

(31 October 1967)

(Number of persons)

	Skill categories: A. Supervisory staff and foremen (for all shifts)			
	B. Skilled operatives			
	C. Semi-skilled operatives (machine operators)			
	D. Unskilled operatives			

Total	A	B	C	D
-------	---	---	---	---

ALL SHOPS & UNITS:	265	80	136	20
--------------------	-----	----	-----	----

Total	A	B	C	D
-------	---	---	---	---

1. Primary operative shops	124	19	44	33
----------------------------	-----	----	----	----

Total	A	B	C	D
-------	---	---	---	---

- Synthetic resins	101	15	35	29
--------------------	-----	----	----	----

Total	A	B	C	D
-------	---	---	---	---

- Saccharines	9	1	4	4
---------------	---	---	---	---

Total	A	B	C	D
-------	---	---	---	---

- Other products	14	3	5	-
------------------	----	---	---	---

Total	A	B	C	D
-------	---	---	---	---

2. Auxiliary operative units	85	17	64	2
------------------------------	----	----	----	---

Total	A	B	C	D
-------	---	---	---	---

- Repair & maintenance	44	4	40	-
------------------------	----	---	----	---

Total	A	B	C	D
-------	---	---	---	---

- Mechanical shop	-	-	-	-
-------------------	---	---	---	---

Total	A	B	C	D
-------	---	---	---	---

- Tooling shop	-	-	-	-
----------------	---	---	---	---

Total	A	B	C	D
-------	---	---	---	---

- Utilities control	10	8	2	-
---------------------	----	---	---	---

Total	A	B	C	D
-------	---	---	---	---

- Product & material storage	9	5	4	-
------------------------------	---	---	---	---

Total	A	B	C	D
-------	---	---	---	---

- Off-site transport	6	-	6	-
----------------------	---	---	---	---

Total	A	B	C	D
-------	---	---	---	---

- Guards, cleaners, etc.	13	-	11	1
--------------------------	----	---	----	---

Total	A	B	C	D
-------	---	---	---	---

- Others	3	-	1	1
----------	---	---	---	---

Total	A	B	C	D
-------	---	---	---	---

3. Auxiliary non-operative units	56	44	12	-
----------------------------------	----	----	----	---

Total	A	B	C	D
-------	---	---	---	---

- Production management	6	5	1	-
-------------------------	---	---	---	---

Total	A	B	C	D
-------	---	---	---	---

- Research & development	9	14	-	-
--------------------------	---	----	---	---

Total	A	B	C	D
-------	---	---	---	---

- Sales unit	14	14	-	-
--------------	----	----	---	---

Total	A	B	C	D
-------	---	---	---	---

- Accounting	9	9	-	-
--------------	---	---	---	---

Total	A	B	C	D
-------	---	---	---	---

- General administration	16	9	9	-
--------------------------	----	---	---	---

Total	A	B	C	D
-------	---	---	---	---

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1.):	Number	Original Purchase Value (1000 US \$)	Replace-ment value (1000 US \$)	Av. age (yr.)	Remarks	Supplier country	Year of instal-lation	Daily running time	Remarks	
									SH Purchased second hand	OK Obsolete
Mixing plants	4				No details available.				Germany, F.R.	1960-1967
Calenders and impregnating machines	10								Germany, F.R.	1955-1965
Rolling mills and strainers	20								Germany, F.R.	1955-1968
Cutting machines	7								Germany, F.R.	1955-1966
Trimming machines	122								Germany, F.R.	1956-1964
Tread casting plants	3								Germany, F.R.	1958-1968
Heaters	224								Germany, F.R.	1955-1968
V-belt heaters	11								..	..
Stirrer	1								Austria	1962
Extruding presses	3								Germany, F.R.	1962-1967
Small spraying machines	5								Germany, F.R.	1955-1960
Lathes	15									- 20 hrs
Planing machines	3					Lifts and elevating platforms	16			
Milling machines	5					Stacker trucks	69			
Welding sets	6					Other common type machines	6			
Cranes	16					Hand tools and apparatuses	23			
Drilling benches	4									

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		C modern standard		Automation:
		A most advanced	B considerably high standard	D appreciably short of today's standard	E almost outdated	
Raw material processing department		B	II			
Calendering department		B	II			
Tyre trimming department		A	II			
Tyre vulcanizing department		A	II			
Tyre tubes department		C	III			
Bicycle tyres and tubes department		C	III			
V-belts, conveyor belts department		C	II			
Radial tyres		A	II			

CAPACITY UTILIZATION:
Full-capacity output: US \$ 58,000,000.

Current utilization: based on 2 and 3-shift operation.

Major products by production	up to 49	50-99	100-299	300-499	500-999	over 1,000	Approximate %
	100	100	100	100	100	100	

All departments are operating at almost full-capacity.

IX. HISTORY & PLAN

1. Performance in the past: (*)	Total sales (1000 US \$)	No. of persons employed	Total exports (1000 US \$)	2. Investments in the past:	
				Approximate amount (1000 US \$)	Type of investment
Year: 1963					
1964	74,336	8,315	20,627		
1965	80,457	8,872	23,297		
1966	85,101	8,374	24,458		
1967	89,900	8,220	31,773		
1968	96,750	8,985	38,700		
(*) of the whole enterprise.					
From 1956 to 1958 :	5,910				
" 1959 " 1964 :	15,470				
" 1965 " 1967 :	18,620				
in 1967 :	6,830				
Expansion and rationalization of product-mix, process equipment, production processes and primary operative shops, etc.					
3. Future Plan:					
From 1968 to 1970 :	14,470				
				See IX.2 above.	

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in those underlined.

(1964)		Manufacture of rubber products		(ISIC Code: 331)	
Industry	Number of enterprises	Ave. No. of estab.	Ave. No. of emp.	Ave. W. & L. per pers.	Ave. gross prod. val./per pers.
1. Size groups by number of persons employed:					
up to 19	37	142	1,405	6,444	65
20 - 99	5	235	1,487	16,631	18
100 - 499	3	8,286	1,860	8,856	57
500 - 999	-	-	-	-	-
over 1,000	2	C	C	C	C
TOTAL:	47	8,663	1,842	9,027	55

2. Size groups by annual value of production (1000 US \$):		Ave. No. of estab.	Ave. No. of emp.	Ave. W. & L. per pers.	Ave. gross prod. val./per pers.	Ave. value added/gross prod. ratio (%)
up to 20	20	22	28	984	4,753	69
20 - 40	8	42	1,112	5,900	62	
40 - 200	9	131	1,524	5,661	67	
200 - 400	2	C	C	C	C	
400 - 2,000	2	C	C	C	C	
over 2,000	4	8,462	1,854	2,109	55	
TOTAL:	47	8,663	1,842	9,027	55	

V. ANNUAL PRODUCTION

(1967)	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price at factory (US \$)	Total output value (1966 US \$)
Synthetic resins	1947	t	12,364	0.24/kg	2,935
Saccharines	1919	t	16	45.85/kg	735
Others	-	t	722	0.34/kg	240

TOTAL VALUE OF PRODUCTION: 3,910

VI. VALUE ADDED

(1967)	Total value (1966 US \$)
1. Annual wages & salaries	653
- Operative workers 1,195 personnel	367
- Non-operative workers 1,02 personnel	286
2. Other payments for employees	178
3. Annual depreciation	175
- Machinery & equipment	94
- Buildings & other facilities	79
- Non-physical capital assets	2
4. Rentals paid	1
5. Interest & royalties	54
6. Sales tax	143
7. Other indirect business taxes (land tax)	9
8. (-) Subsidies	-
9. Corporate income before tax	445

TOTAL VALUE ADDED: 1,658

DESCRIPTION OF MAJOR PRODUCTS:

Besides glues and binding agents for wood industry (chip boards, panel boards) the production programme comprises also binding agents for production of coating materials and grinding devices, resins for foundries moulded plastic compounds, special chemical compounds based on phenol, urea, and melamine, etc.

Synthetic resins: Packed in barrels of 200 kg, high quality. Terms of delivery: 14 days.

Saccharines: Packed in tubes of 7.6 g; cheaper than competitors' products; prompt delivery.

All products: Serial production.

MARKET ASPECTS:

Consumers of products:

Synthetic resins: wood working industry, plastic processing industry, foundries.

Sales organisation:

Synthetic resins are directly sold to final consumers, saccharines are distributed through whole-salers. Subsidiary company takes care of distribution of firm's products in a neighbouring country.

Share in the domestic market:

Saccharines and moulded plastic compounds: over 80%.

Synthetic resins: 30 - 50%.

Competition in the market:

Saccharines: only minor competition from abroad, imports are more expensive.

Synthetic resins: keen domestic and foreign competition which the company, however, is able to meet due to high specialisation.

EXPORT:

Total annual export: US \$ 1,100,000.

Major product	To Western countries	To Eastern countries	To Developing countries
Synthetic resins	40%	30%	30%
Miscellaneous	40%	30%	30%

Export price policy:

Export prices depend on market situation.

Company reports satisfactory revenues from exports.

Governmental policies:

The government subsidises exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity	Average import duty	Total consumption value (1966 US \$)
1. Energy and water				
TOTAL:				126
- Electricity	000 kWh	3,059		61
- Heavy oil	t	1,995		57
- Gas	000 m³	9		0.3
- Steam (%)	t	22.5		-
- Water	000 m³	156		8
2. Production materials				1,665
TOTAL:				
- Methanol	t	5,215		473
- Melamine	"	700		304
- Phenol	"	1,191		219
- Cellulose	"	724		150
- Urea	"	1,607		149
- Miscell. production materials	"	591		115
- Pulp	"	102		100
- Creosol	"	373		81
- Manganese slime	"	539		74

(*) internally supplied

	Total consumption value (1966 US \$)
3. Other materials & supplies	170
TOTAL:	170
- Packaging material	89
- Parts, supplies & services	59
- Other materials & supplies	22
4. Business services purchased	891
TOTAL:	891
- Transportation, storage & insurance	149
- Communication, advertising & other business services	149
5. Work performed by subcontractors	-
TOTAL:	-

TOTAL VALUE OF CONSUMPTION: 2,252

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)	Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Av. Age Year	Acq. Resale Supplier country	Daily running time	(2)	
							Remarks	Output
Succharin manufacturing plant	1	108	159	20	SH/Ob	various	16 "	1,000 t/year
Permanox manufacturing plant	1	50	74	5	SC	-	24 "	..
Condensation kettles { 2,000 l }	6	81	120	15	..	Germany, F.R.	{ 24 "	{ ..
" " { 5,000 l }	2	85	124	8	..	Austria	8 "	{ 1,000 t/year
" " { 10,000 l }	2	186	275	7	Ob	Denmark	[24 "	[2,500 t/year
Niro-drying plant	1	124	182	7	..	Germany, F.R., Austria	16 "	1,000 t/year
Powdered resin plant	1	46	70	1	..	Germany, F.R., Austria, Switzerland	24 "	12,000 t/year
Amino-moulded plastic compounds plant	1	558	820	8	..	Austria	16 "	..
Phenol-moulded plastic compounds plant	1	66	97	12	..	Germany, F.R.	24 "	..
Formaldehyde plants	2	352	519	12	Ob	Germany, F.R.	16 "	..
incl. various storage tanks	..	46	70	12	..	Germany, F.R.	24 "	..
Paper impregnating plant	1	113	166	8	Ob	Germany, F.R.	16 "	..
Electrical motors	1,200	259	383	10				
Pumps	300	89	132	10				

(*) It is impossible to indicate the exact utilisation rate of each single plant due to great variety of product mix.

CAPACITY POWER:

Process equipment:

- electric motors apprW 4,000

Generating equipment:

- installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanisation:	C moderate standard		Automation:	I. fully automated II. non-automated III. semi-automated
			A more advanced	B considerably high standard	D appreciably short of today's standard	E almost oxidized
Synthetic resins		A	II			
Succharines		A	III			
Miscellaneous		A	III			

CAPACITY UTILIZATION:

Full-capacity output: Approximately 4,600,000 US \$

Some 30 persons would be needed for full-capacity utilisation.

Current utilization:

Major products for processing	up to 30	40	50	60	70	80	90	100	Approximate %

Approximately 80 - 90% of the existing capacity is utilized.

Presently the synthetic resin department operates on 3 shifts, whereas the succharine department operates on 1 shift only.

IX. HISTORY & PLAN

1. Performance in the past:	Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
	Year: 1963	295	980
1964	3,380	322	930
1965	4,250	300	940
1966	4,170	292	1,110
1967	3,910	275	1,110
1968	4,060	270	1,120

2. Investments in the past:	Approximate amount 1960 US \$	Type of investment
	From 1955 to 1967:	2,520
		Synthetic resin plant, internal power equipment, workshops

3. Future Plan:	From 1969 to 1970:	540	Synthetic resin plant (expansion of machinery, introduction of new processing methods).
			No additional operatives will be required.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C - confidential; figures of this size group are included in the underlined figures.

(1960)			
Industry	Basic industrial chemicals		
	(ISIC-Code: 311)		
1. Size groups by number of persons employed:	No. of comp.	No. of emp.	Av. w. & s.
up to 19	39	316	1,623
20 - 99	39	1,802	2,057
100 - 499	15	3,205	2,196
500 - 999	3	11,680	2,121
over 1,000	31	C	C
TOTAL:	119	16,885	2,256
			12,249
			45

2. Size groups by annual value of production 1960 US \$:	No. of comp.	No. of emp.	Av. w. & s.
			Av. gross prod. val./per pers.
up to 20	21	16	3,993
20 - 40	8	45	1,336
40 - 200	30	269	6,732
200 - 400	14	433	1,713
400 - over 2,000	30	2,241	9,785
over 2,000	16	13,861	2,300

TOTAL:	119	16,885	2,256	12,249	45
--------	-----	--------	-------	--------	----

XI. DESIGNATED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services:
- | | | |
|---|-------------------------------------|-------------------------------------|
| 1. Engineering study | 5. Trained and managerial personnel | 8. Import and export transaction |
| 2. Financial assistance | 6. Industrial training | 9. Administration of foreign labour |
| 3. Industrial services | 7. Technical consultancy | |
| 4. Equipment supply,
including d maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES: Not applicable.

Type of service	Country or region	No. of projects	Place of industry	Description of projects
				No information available.

XII. SUPPLEMENTS & NOTES

Inventory policy:

On the average, the value of the finished products' inventory amounts to 18% of the total value of production.

Major bottlenecks in the past years:

Short-term bottlenecks occurred in synthetic resins production because of great increase in demand. Therefore, a very extensive expansion of the synthetic resins plant has become necessary.

Depreciation policy:

Both the straight-line as well as accelerated methods were applied.

Governmental policy:

Export promotion law: companies are granted loans at favourable terms in order to be able to increase exports. The establishment took advantage of this law.

Major Products: Detergents, naphthalic acid, naphthenates, distillation products, fine chemicals.

In 1966, the annual production amounted to US \$ 760,000 based on 1-shift operation. The full-capacity output is about US \$ 1.16 million.

Reporting Unit: Branch of a 2-establishment enterprise; founded in 1948; privately owned; 73 employees; emphasis on research work; 15-20% exports.**I. FIXED CAPITAL ASSETS**

(End of 1966)		Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1 Primary process equipment (including installation cost)				
TOTAL		..	134	
- Process equipment	102	131		7.5
- Hand tools & apparatuses	..	3		-
2 Buildings *	142	323		
TOTAL				
- Primary industrial buildings (total floor space: 1,140 m ²)	142	279		
- Auxiliary buildings		44		..
- Warehouses	-	-		-
- Office administration buildings	-	-		-
- Housing	-	-		-
3 Auxiliary facilities (excl. buildings)	73	114		
TOTAL				
- Internal power equipment	10	21		11
- Laboratory facilities	19	24		..
- Means of transportation	28	45		..
- Office equipment	16	24		..
TOTAL PHYSICAL FIXED ASSETS (excluding land)		571		
4 Other fixed capital assets	..	499		
TOTAL				
- Land (total acreage: 1,900 m ²)	..	35		-
- Land improvements	-	464		-
- Others (incl. intangible assets)				

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	fair
	local and city	fair
Utilities:	electricity	fair
	water	fair
	gas	insignificant
Community:	residence	insignificant
	health and recreation	fair
	education	insignificant
Own Welfare Facilities:	-	-

III. INVENTORIES

(End of 1966)		Actual value (1000 US \$)	Number of items
Inventory		210 (*)	
TOTAL:			
- Production materials	51	..	
- Other input materials	-	-	
- Work-in-process	159	2	
- Finished products			
(*) Includes establishments 1 and 2 because of common storage.			

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	9	-	-	hours
Actual hours/year	1,910	-	-	hours
Actual days/year	213	-	-	days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1966 monthly average)

	Up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 360 US\$	Over 360 US\$
--	----------------------	---------------------	---------------------	---------------------	---------------------	---------------------

1. Local non-operatives

- Managers	-	-	-	-	-	4
- Engineers	-	-	-	-	-	2
- Technicians	-	-	-	-	2	6
- Accountants	-	-	-	-	-	-
- Sales officers	-	-	-	-	12	1
- Clerks and typists	-	-	-	2	7	1

2. Local operatives

- Supervisors	-	-	-	-	-	7
- Foremen	-	-	-	-	-	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators	-	-	-	-	2	-
- Craftsmen	-	-	-	-	2	-
- Truck drivers	-	-	-	-	3	-
- Unskilled operatives	-	-	-	5	2	-
- Other full-time operatives	-	-	-	-	3	-
- Part-time operatives	-	1	-	-	-	-

3. Foreign employees

- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

IV. MANNING TABLE

(Number of personnel)

(1966 average)

	Total	A	B	C	D	E	F
--	-------	---	---	---	---	---	---

ALL SHOPS & UNITS:

73	44	—	22	—	—	—	—
----	----	---	----	---	---	---	---

1. Primary operative shops

15	8	—	5	2	—	—	—
----	---	---	---	---	---	---	---

Total plant

15	8	—	5	2	—	—	—
----	---	---	---	---	---	---	---

Shift categories: A. Supervisory staff and foremen (for all shifts)

B. Skilled operatives

C. Semi-skilled operatives (machine operators)

D. Unskilled operatives

2. Auxiliary operative units

- Repair & maintenance	20	3	17	—	—
- Mechanical shop	8	2	6	—	—
- Tooling shop	—	—	—	—	—
- Utilities control	—	—	—	—	—
- Product & material storage	5	1	4	—	—
- Off-site transport	5	—	5	—	—
- Guards, cleaners, etc.	—	—	—	—	—
- Others (boiler house)	2	—	2	—	—

3. Auxiliary non-operative units

- Production management	3	3	—	—	—
- Research & development	5	4	1	—	—
- Sales unit	20	16	4	—	—
- Accounting	10	10	—	—	—
- General administration	—	—	—	—	—

V. ANNUAL PRODUCTION

(1966)

Product or group of products

Yr. of
prod.
UnitQuantity produced
UnitAv. unit
price or
factory
RS NTotal
output
value
1000 US \$

Naphthalic acid

t

1,753

57.2

100

Detergents (heavy duty and fine, powders or liquids)

t

920

437.1

402

Naphthalene

t

129

450.4

58

Fine chemicals

..

..

..

33

Distillation products

t

160

165.4

27

Revenue from research work

21

Self-constructed apparatuses

..

..

..

41

Others

31

TOTAL VALUE OF PRODUCTION: 713 000000

VI. VALUE ADDED

(1966)

Total
value
1000 US \$

1. Annual wages & salaries

63

- Operative workers

128

- Non-operative workers

—

2. Other payments for employees

42

3. Annual depreciation

38

- Machinery & equipment

32

- Buildings & other facilities

3

- Non-physical capital assets

3

4. Rents paid

2

5. Interest & royalties

17

6. Sales tax

26

7. Other indirect business taxes

—

8. (-) Subsidies

—

9. Corporate income before tax

34

TOTAL VALUE ADDED: 350 000000

DESCRIPTION OF MAJOR PRODUCTS:

Universal detergents: For industry and home; heavy duty and fine, powders or liquids.Naphthalic acid and naphthalene: Wood preservatives against dry rot, non-poisonous.Industrial cleaners and special industrial soaps: Fat solvents, antifreeze compounds, pickling agents, anticorrosive agents, etc.Car-underbody coating: Permanent protection against rust and salt.Car cleaners: Shampoo, preservatives, polishes, etc.

Research activities of a rather wide range. Batch production. Mainly packed in barrels and drums (industrial packages); underbody coating usually packed in small white.

MARKET ASPECTS:

Re-sales:

In order to complete product-mix company sells various goods which do not require any substantial processing. A trend can be noticed in the chemical industry to specialize on very few products in order to avoid too high capital investments which would occur if too many specialized machinery and equipment were needed.

Consumers of chemicals:

Motor vehicle repair shops, industrial plants (for cleaning purposes), households.

Sales organization:

Domestic market: 10 representatives under central management.

Exports: Specialized wholesalers and export representatives.

Share in the domestic market:

Motor cleaners: 40 - 50%; products for maintenance of car about 25%; other cleaners: 10 - 20%; naphthalic acid: 85% (processed on commission basis).

Competition in the market:

Company has difficulties to compete with products manufactured in large series by big chemical concerns. Management, therefore, tries to find gaps in the market and to specialize product-mix accordingly. Immediate industrial application of results of research activities is aimed at.

EXPORT:
Total annual export:

Major products	To Western countries	To Eastern countries	To Developing countries
Chemotechnical products	50%	50%	-

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1966)

Quantity consumed

Avg
import
valueTotal consumption
value
1000 US \$

1. Energy and water

Unit

Quantity

%

Import
value

3. Other materials & supplies

Total
consumption
value
1000 US \$

TOTAL:

Unit

158 (*)

14

TOTAL:

80

- Electricity

000 mwh

158 (*)

5

- Packaging material (plastic containers, barrels, bottles)

54

- Fuel oil

t

165

5

- Parts, supplies & services

15

- Gas oil and petrol

t

29

4

- Other materials & supplies

11

(*) Not including 75 t internally supplied.

2. Production materials

TOTAL:

-

208

4. Business services purchased

61

Mineral oil fractions (gas oil, white spirit, kerosene, etc), naphthalic acid, naphthalene lye, concentrated sulphuric acid, decolorizing benzene, non-ionic surfactants, other solvents, sodium hydroxide, copper sulfate, fine chemicals, organic intermediates, etc.

}

..

-

- Transportation, storage & insurance

21

(*) Not including US \$ 56,000 which have been cleared with the sister establishment.

5. Work performed by subcontractors

-

TOTAL VALUE OF CONSUMPTION: 363 000000

(*) Not including US \$ 56,000 which have been cleared with the sister establishment.

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)	Number	Original Purchase Value (\$100 US \$)	Replace- ment value (\$100 US \$)	Ave. Age (yr.)	Supplier Remarks	Supplier country	Year of instal- lation	Daily running time	Capacity output
Vacuum distillation plant	1	18.8	23.2	10	Ob	Austria	1953	..	1.5 t/shift
Boiler	1	8.1	10.1	3	Ob	..	..	..	..
Stirring autoclave (500 l)	1	3.2	4.3	10	Ob	Hungary	1958	8 hr	2 t/day
Steel tanks for naphthalene	3	2.1	2.3	7	Ob	..	..	..	..
Others	..	69.8	..	..	..	..	..	..	..
Separator	1	..	..	..	..	Austria	1958	1 hr/week	5 t/hour

Glass and enamel apparatuses were supplied by UK, Federal Republic of Germany, and Hungary.
For further details see page 4/XII. Supplements.

CAPACITY POWER:

Process equipment:

- electric motors kW 180

Generating equipment:

- installed capacity kVA 110

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:	C. medium standard	Automation:	
		A: more advanced B: considerably high standard	D: appreciably above today's standard E: almost automated		
The whole plant is moderately mechanized but not automated.					

CAPACITY UTILIZATION:

Full-capacity output: US \$ 1,160,000.

Current utilization: based on 2-shift operation.

Major products (or processes)	up to 70	70-80	80-90	90-100	100	Appreciable %
	10	20	30	40	50	60
Naphthalene acid	x					
Naphthalene and temporary protective coatings		x				
Industrial detergents		x				
Underbody coating			x			
Laundry detergents	x					
Research orders		x				

IX. HISTORY & PLAN

1. Performance in the past:	(Establishments 1 and 2)		Average no. of persons employed (\$100 US \$)	Total exports (\$100 US \$)
	Total output (\$100 US \$)	No. of employees		
Year: 1963	730	122	190	
1964	800	123	230	
1965	940	121	250	
1966	1,010	117	..	
1967	(1,020)	(116)	(270)	
1968	(1,030)	(118)	(270)	

2. Investments in the past:

Approximate amount (\$100 US \$)	Type of investment
From 1962 to 1968: 190	Expansion of production capacity, rationalisation of product-mix.
of which in 1967: 58	

3. Future Plan:

From 1968 to 1970: 120 Rationalisation of production processes, specialisation of product-mix and machinery, introduction of new products and new fabrication processes. Expansion of capacity for production of anti-corrosives.
No additional operatives to be employed.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of that size group are included in the one underlined.

(1964)

Industry Basic industrial chemicals

1. Size groups by number of persons employed:	(ISIC-Code: 311)			
	No. of estab.	No. of emp.	Ave. W. & S.	Ave. gross prod. val./per pers. (\$100 US \$)
up to 19	19	318	1,623	12,076
20 - 99	19	1,802	2,057	12,755
100 - 499	15	3,265	2,196	12,279
500 - 999	3	11,400	2,321	12,166
over 1,000	3↑	0	0	0
TOTAL:	119	16,885	2,256	12,249
				45

1. Size groups by annual units of production (\$100 US \$):	No. of estab.	No. of emp.	Ave. W. & S.	Ave. gross prod. val./per pers. (\$100 US \$)	Ave. value added/pers. (\$100 US \$)
up to 20	20	21	16	1,553	9,687
20 - 40	40	8	45	1,336	5,008
40 - 200	200	30	269	1,739	6,738
200 - 400	400	14	433	1,713	9,785
400 - 2,000	2,000	30	2,241	2,176	11,167
over 2,000	16	13,861	2,300	12,601	45
TOTAL:	119	16,885	2,256	12,249	45

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Engineering study	3. Technical and managerial personnel	6. Import and export services
2. Financial assistance	4. Industrial training	7. Admission of foreign labor
3. Industrial services	5. Technical consultancy	
4. Equipment supply, installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project

The enterprise is interested in co-operating in many different ways wherever its own processes, and experiences in manufacturing and/or marketing are applicable:

Anti-corrosives: Fully effective even on wet metal surfaces; easily applicable, resistant to tropical conditions; cheap.

Detergents for households and industry: Universal detergents, motor car shampoos, industrial detergents, decarbonizing fluids, full range of "cosmetics" for motor cars.

Release agents: Special mould releasing agents for lifting prefabricated concrete parts (hot or cold hardened) from steel moulds. Simultaneous protection against corrosion.

Manufacture of pharmaceuticals belonging to the group of nicotinic acid and isonicotinic acid, niacinamide (niacinamide) and isonicotinic acid hydrazide (isoniazid).

Both export of products and licensing are possible; know-how contracts can be signed as well. In many cases it may be advisable to begin with exports in order to establish a market in a developing country for the products in question and to continue with the production at a later stage on a mutually agreeable basis.

XII. SUPPLEMENTS & NOTES

Contract and commission work:

The enterprise manufactures naphthalic acid on commission basis. Production is based on wastes of mineral oil. Company also engaged in research work for industrial enterprises in the field of detergents.

Bottlenecks in the past and current problems:

Bottlenecks in the production of anti-corrosives the company encountered due to lacking apparatuses, could be abolished to some extent.

Technological features:

Besides the distillation plant the establishment comprises interchangeable apparatuses and a series of heated containers with a holding capacity of 50 - 500 l. The containers are lined with material resistant to chemical influences, mainly consisting of glass, enamel or ceramic. The enterprise can be considered as a huge laboratory with a rather fast commercial application of its own research work. Predominantly batch-production (exception: continuous distillation).

Depreciation policy:

The enterprise applies the straight-line method of depreciation only.

Major Products: Solvents, inorganic reagents, organic reagents, etc.
The full-capacity output amounts to US \$ 580,000 based on 1-shift operation.

Reporting Unit: Branch of a 2-establishment enterprise founded in 1956. Privately owned; 43 employees. Large manufacturer of fine chemicals and reagents. Approximately 20% exports. Not profitable yet.

I. FIXED CAPITAL ASSETS

(End of 1966)

	Original purchase value (1966 US \$)	Replace- ment value (1966 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	96	197	
- Process equipment *	94	194	4.5
- Hand tools & apparatuses	2	3	-
2. Buildings	259	306	
TOTAL	215		10
- Primary industrial buildings (total floor space: 3,000 m ²)	215		
- Auxiliary buildings			
- Warehouses	44	306	10
- Office administration buildings			
- Housing			
3. Auxiliary facilities (excl. buildings)		45	
TOTAL	..	19	..
- Internal power equipment	..		
- Laboratory facilities	5	8	9
- Means of transportation	7	10	2
- Office equipment	7	8	8
TOTAL PHYSICAL FIXED ASSETS (excluding land):		548	
4. Other fixed capital assets	..	31	
TOTAL	..	31	
- Land (total acreage: 8,000 m ²)	..	31	-
- Land improvements	-	-	-
- Others	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	fair
	local and city	insignificant
Utilities:	electricity	fair
	water	excellent
	gas	insignificant
Community:	residence	insignificant
	health and recreation	fair
	education	insignificant
Own Welfare Facilities:	-	-

III. INVENTORIES

(End of 1966)

Inventories	Actual value (1966 US \$)	Number of months
TOTAL:		
- Production materials		
- Other input materials	Included in	
- Work-in-process		
- Finished products	MIDDLE EUROPE: 311-(2 b)	

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours
Shift hours/day:	9	-	-
Actual hours/year:	1,980	-	-
Actual days/year:	221	-	-

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1966 monthly average)

Up to 100 US \$	100-140 US \$	140-160 US \$	160-240 US \$	240-360 US \$	over 360 US \$
-----------------	---------------	---------------	---------------	---------------	----------------

1. Local non-operatives

- Managers	-	-	-	-	2
- Engineers	-	-	-	-	4
- Technicians	-	-	-	1	6
- Accountants	-	-	-	-	-
- Sales officers	-	-	-	-	1
- Clerks and typists	-	-	-	-	5

2. Local operatives

- Supervisors	-	-	-	-	-
- Foremen	-	-	-	-	6
- Skilled operatives	-	-	-	-	-
- Machine operators	-	-	-	4	-
- Craftsmen	-	-	-	4	-
- Truck drivers	-	-	-	1	-
- Unskilled operatives	-	-	6	-	-
- Other full-time operatives	-	-	3	-	-
- Part-time operatives	-	2	-	-	-

3. Foreign employees

- Managerial staff	-	-	-	-	-
- Technical staff	-	-	-	-	-
- Other skilled operatives	-	-	-	1	-
- Unskilled operatives	-	-	-	-	-

IV. MANNING TABLE

(Number of persons)

(1966 average)

Total	A	B	C	D	E	F
-------	---	---	---	---	---	---

ALL SHOPS & UNITS:

21	4	1	5	11	-	-
----	---	---	---	----	---	---

1. Primary operative shops

21	4	1	5	11	-	-
----	---	---	---	----	---	---

- Total plant

21	4	1	5	11	-	-
----	---	---	---	----	---	---

Skill categories: A. Supervisory staff and foremen (for all shifts)

B. Skilled operatives

C. Semi-skilled operatives (machine operators)

D. Unskilled operatives

2. Auxiliary operative units

- Repair & maintenance	6	2	4	-	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	-	-	-	-	-
- Utilities control	-	-	-	-	-
- Product & material storage	5	1	4	-	-
- Off-site transport	1	-	1	-	-
- Guards, cleaners, etc.	1	-	1	-	-

3. Auxiliary non-operative units

- Production management	3	3	-	-	-
- Research & development	2	1	-	-	-
- Sales unit	2	2	-	-	-
- Accounting	2	2	-	-	-
- General administration	-	-	-	-	-

V. ANNUAL PRODUCTION

(1966)

Products for group of products

	Vr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory US \$	Total output value 1000 US \$
Solvents	1960	t	74	400	29
Inorganic reagents	1960	..	..	..	23
Organic reagents	1960	..	..	..	59
Others	..	..	..	..	12
Commission received					20
Revenue from research work					50

TOTAL VALUE OF PRODUCTION: 193

VI. VALUE ADDED

(1966)

	Total value 1000 US \$
1. Annual wages & salaries	88
- Operative workers	49
(26 personnel)	
- Non-operative workers	39
(15 personnel)	
2. Other payments for employees	23
3. Annual depreciation	29
- Machinery & equipment	22
- Buildings & other facilities	5
- Non-physical capital assets	2
4. Rents paid	-
5. Interest & royalties	16
6. Sales tax	3
7. Other indirect business taxes	-
8. (-) Subsidies	-
9. Corporate income before tax (loss)	(-)20

TOTAL VALUE ADDED: 139

DESCRIPTION OF MAJOR PRODUCTS:

The enterprise specializes in organic reagents for medical diagnosis, including also reagents for automatic titration and reagents for qualitative analysis, especially for spot test analysis.

Research chemicals (fine chemicals) and reagents are manufactured in small-batch production.

Packings, qualities and terms of delivery depend on the individual essences which are used for the production.

MARKET ASPECTS:

Re-sales:

Various chemicals to complete own product-mix.

Consumers of products:

Research institutes (especially institutes for medical diagnosis).

Sales organisation:

Products are usually sold through specialised wholesalers.

Share in the domestic market:

About 30%.

Competition in the market:

Enterprise is facing keen competition from large national and international chemical concerns.

EXPORT:

Total annual export: approx. US \$ 40,000.

Major products	To Western countries	To Eastern countries	To Developing countries
----------------	----------------------------	----------------------------	-------------------------------

Fine chemicals	45%	55%	-
----------------	-----	-----	---

Export price policy:

See MIDDLE EUROPE : 311 - (2 a).

VII. ANNUAL CONSUMPTION

(1966)

Quantity consumed

Unit

Quantity

%
importAverage
import
valueTotal consumption
value

1000 US \$

1. Energy and water

TOTAL:

- Electricity	000 kWh	175
- Gas oil and petrol	t	30
- Natural gas	000 m ³	207

13

6

3

4

2. Production materials

TOTAL:

- Inorganic salts and
acids, organic
intermediates,
solvents

28

28

3. Other materials & supplies

TOTAL:

- Packaging material (glass and plastic containers, barrels)	7
- Parts, supplies & services	4
- Other materials & supplies	-

4. Business services purchased

TOTAL:

- Transportation, storage & insurance	1
- Communication, advertising & other business services	1

5. Work performed by subcontractors

TOTAL:

TOTAL VALUE OF CONSUMPTION: 54

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)	Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Av. Age (yr.)	Remarks	Supplier country	Year of instal- lation	Remarks:	
								S/N	Purchased second-hand 10 (checklist) R Renewed SI Self-constructed
Stainless steel reactors	2	3.6	4.2	3	Ob	Austria	1961		
Centrifuges	2	4.0	4.4	2	Ob				
Distillation plant	1	14.9	26.3	3	Ob				
Stainless steel dryer	1	3.3	4.1	4	Ob	Germany, F.R.	..		
Refrigerating plant	1	1.3	1.7	9	Ob	UK	1965		
25 - 500 gallon autoclaves and boiling pans of glass, enamelled	16	11.9	15.5	6	Ob	Hungary, Germany, F.R.	1958- 1965		
Others	..	55.2	138.1	..	..		

CAPACITY POWER:

Process equipment:
 - electric motors kW 150
 - others " 340 (*)

Generating equipment:
 installed capacity kVA 250 (*)

(*) considered as spare plant capacity.

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		C machine standard	D apparently short of today's standard	E almost outdated	Automation:	
		A more advanced	B considerably high standard				I fully automated	II non-automated
The total plant is moderately mechanized but not automated.								

CAPACITY UTILIZATION:

Full-capacity output: US \$ 580,000.

Current utilization: based on 1-shift operation.

Major products (or processes)	Approximate %							
	to 20	20	30	40	50	60	70	80
Reagents organic	x							
Reagents inorganic	x							
Filling and re-packing of chemicals		x						
Research orders			x					

The installed capacity is far too large.

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963
1964
1965
1966
1967
1968

Total output
1960 US \$

No. of persons employed

Total exports
1960 US \$

see establishment No. 1
(MIDDLE EUROPE : 311 - (2 e))

2. Investments in the past:

From 1967 to 1968 :
in 1966 :

Approximate
amount
1960 US \$

190

Type of investment

Construction of plant

3. Future Plan:

By 1975:

390

Specialisation of product-mix
reorganisation of machinery,
introduction of new fabrication
processes.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of this size group are included in that underlined.

(1964)

Industry Basic industrial chemicals

(ISIC Code: 311)

1. Size groups by number of persons employed	No. of estab.	No. of emp.	Av. W. & S. per pers. 1960 US \$	Av. gross prod. val/ per pers. 1960 US \$	Av. value added/gross prod. ratio (%)	2. Size groups by annual value of production 1960 US \$:		No. of estab.	No. of emp.	Av. W. &. S. per pers. 1960 US \$	Av. gross prod. val/ per pers. 1960 US \$	Av. value added/gross prod. ratio (%)
						up to	20					
up to 19	59	318	1,623	12,076	41		20	21	18	1,553	9,687	59
20 - 99	39	1,802	2,057	12,755	48		20 -	40	8	1,336	5,002	64
100 - 499	15	3,285	2,196	12,279	48		40 -	200	30	289	8,732	56
500 - 999	3	11,480	2,321	12,166	44		200 -	400	14	433	9,785	48
over 1,000	3 ↑	c	c	c	c		400 -	2,000	30	2,241	2,176	47
							over	2,000	16	13,861	2,300	45
TOTAL	119	16,885	2,256	12,249	45		TOTAL	119	16,885	2,256	12,249	45

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Engineering study	5. Technical and managerial personnel	8. Import and export promotion
2. Financial assistance	6. Industrial training	9. Admission of foreign labour
3. Industrial services	7. Technical consultancy	
4. Equipment supply, installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

The establishment is interested in importing natural rubber from developing countries (e.g. from Indonesia and Malaysia).

Foreign operatives could receive in-plant training provided language requirements can be met.

Company is prepared to admit a limited number of workers from neighbouring European countries.

Know-how contracts could be signed, however, difficulties arising from lacking convertibility and free transferability of royalties frequently prevent the company from doing so.

XII. SUPPLEMENTS & NOTES

Ad VI. VALUE ADDED - Items 2. - 8.:

Items 2. - 8. do not correspond with reality but have been computed based

(a) on the value added table given for the whole enterprise, summarising all value added items of the 4 establishments and

(b) on the given distribution of wages and salaries among these establishments. Total corporate income before tax of the company amounts to US \$ 3 - 3.5 million. Overall profits of this branch have been calculated as a residual still including a few unknown cost items due to which the amount shown might appear to be fairly high, although this branch is responsible for the overall profitability of the company.

Ad VII.4. ANNUAL CONSUMPTION - Business services purchased:

This item includes various overhead costs of the branch considered as well as of the whole company. The amount was calculated as a residual.

Technological features:

The establishment's process equipment is comparable to the one utilised in similar rubber processing plants with particular emphasis on tyres.

Inventories policy:

On the average, the value of the stock of finished products amounts to 12.5% of the total value of production.

Research and development:

The company maintains centralised laboratories for all divisions, employing some 40 - 50 full-time staff members. These facilities are located on the premises of the reporting unit.

Training:

The company has a diversified training programme for technical and commercial employees and apprentices.

NOTES ON THE WHOLE ENTERPRISE:

The two establishments not presented in detail are producing mechanical rubber products (shoes, rubber and plastic boots, rubber hoses and tubing, insulated tapes, household and operating gloves, sponges, sporting goods, etc.) and asbestos products.

Expansion and reorganisation of

- general rubber products plant
- tyre plant
- industrial products plant
- asbestos products plant

Investment in the past (US \$)

- from 1956-1967: 16,210,000
- from 1956-1967: 40,000,000
- from 1956-1967: 4,320,000
- from 1956-1967: 500,000
- in 1967: 8,000,000

Future plans

- from 1968-1970: 4,640,000
- from 1968-1970: 14,470,000
- from 1968-1970: 1,620,000
- from 1968-1970: 350,000

Depreciation policy:

The company applies both the straight-line and the accelerated methods of depreciation.

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- | | | |
|----------------------------|--------------------------------------|------------------------------------|
| 1 Engineering study | 3 Technical and managerial personnel | 5 Import and export transaction |
| 2 Financial assistance | 4 Industrial training | 6 Administration of foreign labour |
| 3 Industrial services | 7 Technical consultancy | 8 |
| 4 Equipment supply, | | |
| Installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of projects

No data available.

XII. SUPPLEMENTS & NOTES

Commission work:

A special solvent based on petroleum derivatives is processed on commission basis.
Total commission received in 1966 amounted to US \$ 20,000.

Technological features:

The equipment consists of large-scale laboratory apparatuses. The most important one is a self-constructed plant for the production of a special solvent based on petroleum derivatives.
Utilisation rate: 40%.
In the filling and packing shop self-produced chemicals as well as re-sales are packed.

Current problems:

Although this establishment could increase its revenue from research work performed for other companies, the over-all balance of accounts is still negative.

Depreciation policy:

The straight-line method of depreciation is applied.

Major Products:

Vinocel staple fibre, vinocel films (cellophane), sodium sulphate (Bläuber's salt); plants and equipment for vinocel staple fibre and vinocel foil production. Capable of producing annually 60,000 t of fibre, 11,000 t of sodium sulphate, 4,000 t of vinocel film (cellophane). In 1967 plants and equipment were manufactured for the first time. Sales amounted to approx. US \$ 500,000.

Reporting Unit:

One-establishment enterprise; joint stock company, partly owned by the public; founded in 1939; about 2,300 employees; favourably located to sources of raw material, water and energy supply; intensive research work (basic research, industrial processing and mechanical engineering); company is the largest employer and important contractor of many feeder industries in this area. Enterprise shares interest in a synthetic fibre manufacturing firm. 70% exports.

I. FIXED CAPITAL ASSETS

(End of 1967)	Original purchase value (1000 US \$)	Replacement value (1000 US \$)	Avg. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	22,144	34,131	10
- Process equipment *	21,747	33,177	10
- Hand tools & apparatuses	397	334	-
2. Buildings	6,104	10,100	10
TOTAL	6,104	10,100	10
- Primary industrial buildings (total floor space: 516,201 m ²)	5,101	8,100	10
- Auxiliary buildings	1,013	1,900	10
- Warehouses	94	1,000	10
- Office administration buildings	1,000	1,100	10
- Housing	1,100	1,100	10
3. Auxiliary facilities (excl. buildings)	4,671	5,111	-
TOTAL	3,813	4,117	-
- Internal power equipment	3,813	4,117	-
- Laboratory facilities	97	401	-
- Means of transportation	10	21	4
- Office equipment	402	402	6
TOTAL PHYSICAL FIXED ASSETS (excluding land):	15,819	25,347	
4. Other fixed capital assets	171	171	-
TOTAL	171	171	-
- Land (total acreage: 264,814 a) ^a	204	204	-
- Land improvements (t.a.acr.519,331")	119	119	-
- Others	60	60	5

(**) taxable value

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport	external long distance	fair
	internal long distance	excellent
	local and city	insignificant
Utilities	electricity	excellent
	water	"
	gas	insignificant
Community	residence	fair
	health and recreation	excellent
	education	"
Own Welfare Facilities:	-	-

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories	3,560	
TOTAL:		
- Production materials	1,587	1
- Other input materials (*)	851	13
- Work-in-process	387	0.5
- Finished products	735	0.5

(*) Including spare-parts (US \$ 425,000). Not imputing spare-parts stocks would last for 6 months.

WORKING TIME PER OPERATIVE WORKER: See also page A/XII

	1st shift	2nd shift	3rd shift	hours
Shift hours/day: (*)	7.7	7.3	7.3	hours
Actual hours/year:	2,025	1,933	1,923	days
Actual days/year:	263	263	263	

(*) Actual hrs. Normal working time per week (5 days): 1st shift: 44 hrs, 2nd and 3rd shifts: 47 hrs.

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

100	100	140	160	240	560
US\$	US\$	US\$	US\$	US\$	US\$

1. Local non-operatives

- Managers	-	-	-	-	18
- Engineers and chemists	-	-	-	-	14
- Technicians	-	11	9	78	-
- Accountants	-	-	-	-	6
- Sales officers	-	-	62	44	6
- Clerks and typists	-	2	5	22	-
- Supervisors	-	-	-	24	49

2. Local operatives

- Supervisors (*)	-	-	-	-	-
- Foremen	-	-	-	4	-
- Skilled operatives	-	-	240	-	-
- Machine operators	-	-	-	436	-
- Craftsmen	-	-	-	9	-
- Truck drivers	-	-	97	147	-
- Unskilled operatives	-	-	-	354	-
- Other full-time operatives	-	-	-	-	-
- Part-time operatives	-	-	-	-	-

3. Foreign employees

- Managerial staff (**)	-
- Technical staff	-
- Other skilled operatives	-
- Unskilled operatives	-

(*) Company considers supervisors as local non-operatives.

(**) Included in local non-operatives and operatives.

IV. MANNING TABLE

(Number of persons)

(1967 average)

Total	A	B	C	D	1st shift	2nd shift	3rd shift

ALL SHOPS & UNITS:

2,272	452	1,210	222	288
-------	-----	-------	-----	-----

931

65

57

136

187

243

243

210 12 34 48 58 58

469 23 17 66 87 138 138

160 15 - 25 44 38 38

11 1 4 - - 3 3

11 11 - 5 3 3 3

48 10 30 8 - - -

22 4 6 3 3 3 3

212 54 424 24 - -

- - - - - - -

161 46 73 33 9

69 21 43 5 -

48 11 27 10 -

82 3 51 14 14

244 83 161 - -

220 169 51 - - -

15 15 - - -

90 41 40 - - -

49 49 - - -

41 39 2 - - -

25 25 - - -

220 169 51 - - -

15 15 - - -

41 41 - - -

25 25 - - -

220 169 51 - - -

15 15 - - -

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15 15 - - -

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41 41 - - -

V. ANNUAL PRODUCTION

(1967)

Products for group of products

	Yr. of first prod.	Quantity produced Unit	Avg. unit price ex factory	Total output value (000 US \$)
Vicose staple fibre	1939	t 60,140	432	26,661
Vicose film (cellophane)	1952	" 3,202	850	2,724
Calcium sodium sulphate	1951	" 14,107	30	420
Sulphuric acid	1966	" 504 (*)	36	18
Yarns and fabrics	1951	" 27	848	23
Synthetic foils	1967	" 70	24	2
Plants and equipment	1967	various	-	499
Steam and electricity supplied	1939	"	-	319
Revenue from services rendered		"	-	511

(*) Not including internal consumption of 56,027 t.

TOTAL VALUE OF PRODUCTION:

31,590

VI. VALUE ADDED

(1967)

1. Annual wages & salaries

- Operative workers (1,822 persons)	4,185
- Non-operative workers (1,452 persons)	1,348

2. Other payments for employees

3. Annual depreciation	1,109
- Machinery & equipment	1,106

4. Rents paid

5. Interest & royalties	174
6. Sales tax	160

7. Other indirect business taxes	304
8. (-) Subsidies	0

9. Corporate income before tax	471
--------------------------------	-----

Total value (000 US \$)

5,184

TOTAL VALUE ADDED: 10,329

DESCRIPTION OF MAJOR PRODUCTS:

Vicose staple fibre: serial production, packed in bales of 170 kg; cheap fibre; suitable for versatile applications; terms of delivery: 7 weeks.

Cellophane: serial production; packed in containers of 150 kg; transparent material; time of delivery: 4 weeks.

Calcium sodium sulphate (Glauber's salt): coupled product; packed in sacks of 40 kg; delivery on long-term contracts.

Sulphuric acid: serial production; packed in containers; insignificant exports.

Synthetic foils: serial production; intermediary product; potential licensee.

Yarns and weavings: serial production; packed in cases; test product.

Plants and equipment: single production, reporting year was the first year of production.

Production plants for viscose staple fibres and viscose foils: Equipment for viscose production such as fluidized bed type heating or cooling units for alkali cellulose; soda recovery plants for the regeneration of prasse liquor; high-vacuum viscose deaerator, viscose aging tanks and filter presses.

High capacity spinning machines, stretching units, cutters, washing machines. Viscose film (cellophane) casting machines, viscose film coater, unwind and rewind units for viscose or plastic films and paper.

Installations and apparatus for research and development: testing equipment for the examination of pulp, of spinning processes, pilot plants for production of 100 kg/day. Automation and plant control equipment.

MARKET ASPECTS:

Market and competition:

The enterprise is capable to fully satisfy the domestic demand for viscose staple fibre; it produces about 3% of the world production and holds a share of 13% of the world export of this commodity.

Between 40 - 50% of the domestic market for cellophane are supplied by the company which manufactures about 1.5% of the world production of cellophane.

Products are mainly sold to European countries but to other countries as well.

EXPORT:

Total annual export: US \$ 20,564,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Vicose staple fibre	80%	30%	30%
Vicose film (cellophane)	80%	5%	5%

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.b. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)

1. Energy and water

	Quantity consumed Unit	Quantity	% Import	Average import duties	Total consumption value (000 US \$)
TOTAL:					2,142
- Electricity	000 kWh	22,051 (*)	-	-	215
- Lignite	t	70,794	-	-	421
- Fuel oil	t	69,169	-	-	1,495
- Additives	t	19	-	-	11
- Steam	000 m3	869 (internally supplied)	-	-	-
- Water	000 m3	70,739 (" ")	-	-	-

2. Production materials

	Quantity consumed Unit	Quantity	% Import	Average import duties	Total consumption value (000 US \$)
TOTAL:					16,656
- Pulp	t	60,226	16%	(**) ..	8,466
- Caustic soda	t	40,062	-	-	2,529
- Carbon disulfide	100%	t 12,972	-	-	1,730
- Sulphuric acid	100%	t 56,007 (internally supplied)	-	-	-
- Sulphur	t	19,645	100%	..	1,333
- Zinc sulphate	t	2,792	-	-	270
- Titanium dioxide	t	353	100%	..	171
- Colours	t	776	100%	12	837
- Soaps	**	**	-	-	71
- Glycol	t	746	50%	-	324

(*) Not including 11,635,000 kWh internally supplied.

(**) Mostly non-dutiable due to transhipment bond.

3. Other materials & supplies

TOTAL:	1,579
- Packaging material (canvas, synthetic foil and fabrics, band iron, cases, containers, sacks)	522
- Parts, supplies & services	666
- Other materials & supplies	391

4. Business services purchased

TOTAL:	726
- Transportation, storage & insurance	145
- Communication, advertising & other business services	581

5. Work performed by subcontractors

TOTAL:	158
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TOTAL VALUE OF CONSUMPTION: 21,261

MIDDLE EUROPE : 311 - (3)

VIII. TECHNOLOGICAL CHARACTERISTICS

Detail of Process Equipment (8.1.)	Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Ave. Age years	Remarks	Supplier country	Year of instal- lation	Daily running time	Output capacity
Vicose production plant standard (1-20t)	..	3,818	6,037	25	SC (*)	D, A	1939	continuously	200 t/day
Vicose production plant (25t)	..	1,703	2,129	10	SC (*)	D, A	1960	"	180 t/day
Spinning machines	14	2,080	3,290	6	SC	D, A, CH	1955-62	"	180 t/day
Washing machines	12	1,497	2,980	20	SC (*)	D, A	1939-67	"	180 "
Dryers	12	1,772	3,483	10	SC (*)	D, A	1939-67	"	180 "
Baling presses	13	652	1,064	10	-	D	1939-67	"	180 "
Caustic soda regeneration	2	1,311	1,599	10	SC (*)	D	1957-58	"	180 "
Vicose recovery equipment	1	201	252	15	SC	-	1956	"	180 "
Lye regeneration equipment	1	116	348	30	SC (*)	D	"	"	180 "
Sodium sulphate plant	1	292	387	12	SC (*)	D, A	1952	continuously	50 t/day
Vicose film casting machines	2	1,802	2,167	10	OB, SC (*)	Italy, CH	1952-62	"	10 "
Vicose film washing and finishing machine	..	480	697	10	-	D	1952-67	16 hrs	10 "
Sulphuric acid plant	1	1,134	1,777	3	SC (*)	D, A	1966	continuously	200 "
Split weaving	1	87	104	1	SC (*)	CH	"	"	180 "
Other machines	..	3,323	5,728	**	**	-	"	"	180 "
Universal face shovel	1	46	18	2	-	Sweden	"	"	180 "
Engines	5	58	213	25	OB	D	"	"	180 "
Wagons, pot-ecals, tanks	25	33	174	25	-	(**) D-Germany, F.R.; CH-Switzerland; A-Austria.	"	"	180 "
Electric and diesel trucks, trailers	16	15	19	5	-	"	"	"	180 "
Electrical starters	17	111	135	5	-	"	"	"	180 "
Cars, motorbicycles, boats	10,5,3	45	48	3	-	"	"	"	180 "
Fire fighting water truck and ambulance car	2	19	24	5	-	"	"	"	180 "
Spinning nozzles (noble metal)	..	1,000	1,084	10	-	"	"	"	180 "

(**) Partially self-constructed.

CAPACITY POWER:

Process equipment:

- electric motors kW 55,600

Generating equipment:

- installed capacity kVA 43,000

CAPACITY OF PRIMARY OPERATIVE SHOPS.

Major primary operative shops	Kind of process involved	Mechanization:		Automation:		Further details
		A: most advanced	B: considerably high standard	C: moderate standard	D: apparently short of today's standard	
Vicose department	-	A	II			
Vicose staple fibre department	-	A	II			
Vicose film (cellophane) dept.	-	C	II			
Sulphuric acid department	-	A	I			
Celotting department	-	A	II			
Plants and equipment department	-	C	II			
Split weaving department	-	A	I			

CAPACITY UTILIZATION:

Full-capacity output: US \$ 30 million, i.e. after expanding the output of production plants and equipment for viscose staple fibres and viscose foils. No additional operatives seem to be necessary.

Current utilization: Based on 3-shift operation.

Major products for processing	up to 20	Approximate %	to 50	50-59	60-69	70-79	80-89	100
	No. of	No. of	No. of	No. of	No. of	No. of	No. of	No. of
Vicose staple fibre	x							
Vicose film (cellophane)	x							
Sodium sulphate (calcined)	x							
Sulphuric acid	x							
Plants and equipment	x							
Yarns and weavings (test production)	x							
Synthetic foils	x							

Although the demand for viscose staple fibres did not increase significantly in 1967 on the world market, and although prices deteriorated considerably, the company was able to run its facilities at full-capacity.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	1963	Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
1964	29,280	2,724	18,770	
1965	33,370	2,689	24,100	
1966	34,420	2,593	23,300	
1967	30,900	2,464	20,620	
1968	31,290	2,279	20,560	
	31,730	2,240	21,280	

2. Investments in the past:

From 1955 to 1967:	Approximate amount 1960 US \$	Type of investment
" " " :	9,090	Diversification of product-mix
" " " " :	5,340	Expansion and replacement of machinery and equipment
" " " " :	6,540	Rationalisation of processing methods

3. Future Plan:

From 1969 to 1974:	13,540	Rationalisation and automation of production processes, increase of internal production of raw material, diversification of product-mix, expansion of factory premises.
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X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of this size group are included in the underlined figures.

(1964)

Industry Basic industrial chemicals

(ISIC Code: 3111)

1. Size groups by number of persons employed	No. of employ.	No. of empl.	Ave. W. & S. per pers. 1960 US \$	Ave. gross prod. val/ per pers. 1960 US \$	Ave. value added/gross prod. ratio (%)	2. Size groups by annual value of production 1960 US \$:	No. of empl.	No. of empl.	Ave. W. & S. per pers. 1960 US \$	Ave. gross prod. val/ per pers. 1960 US \$	Ave. value added/gross prod. ratio (%)
up to 19	59	318	1,673	12,076	41	up to 20	21	16	1,553	9,687	59
20 - 99	39	1,802	2,107	17,755	48	20 - 40	8	45	1,336	5,002	64
100 - 499	15	3,785	2,196	12,729	48	40 - 200	30	289	1,139	8,732	56
500 - 999	3	11,630	2,321	12,166	44	200 - 400	14	433	1,713	9,785	48
over 1,000	3 ↑	6	6	6	6	400 - 2,000	30	2,241	2,176	11,167	47
						over 2,000	16	13,861	2,300	12,601	45
TOTAL:	119	16,885	2,256	12,249	45	TOTAL:	119	16,885	2,256	12,249	45

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- 1. Engineering study
 - 2. Financial assistance
 - 3. Industrial services
 - 4. Equipment supply, installation & maintenance
 - 5. Trained and re-trained personnel
 - 6. Industrial training
 - 7. Technical consultancy
 - 8. Import and export promotion
 - 9. Admission of foreign labour

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of projects
1,2,				The company is capable of rendering advice on any kind of financial and technical problems that might occur in connexion with the installation of a fibre production plant, of carrying out feasibility studies; of giving advice on choice of location, etc.
3				Industrial services could be provided in the form of know-how and licence agreements for the manufacture of special fibre, synthetic foils (particularly split-weaving), viscose staple fibre, and viscose film.
4				The establishment is experienced in designing machinery for the manufacture of the above mentioned products and could supply related equipment, even entire plants.
5,6				The company is willing to train personnel and to delegate to developing countries.
8				The establishment is interested in importing sulphur.

XII. SUPPLEMENTS & NOTES

History of production and investment:

Construction of the company was started in 1938, production started one year later. The break-even point was surpassed for the first time in 1963 with an output of 55,000 t of viscose staple fibre.

Contract and commission work:

5 subcontractors performed commission work amounting to US \$ 150,000.

Current problems:

The company is eager to diversify its production programme, since synthetic fibres are more and more substituted for viscose staple fibres. Therefore, the company started the production of plants and equipment in 1967.

Furthermore, the company aims at fully automated production processes.

Joint ventures:

The company founded a synthetic fibre production plant together with an international concern. Production has already started.

Off-plant training:

The company sends selected personnel to off-plant training courses.

Working time:

Additional leave is granted to that agreed upon in the collective contract. Normal working time per week (5 days) amounts to 42 hrs only in order to compensate for possible health damages.

EAST AFRICA : 312/319 - (1)

MAJOR PRODUCTS: Soap, detergents and edible oils.
 Capable of producing annually 4,000 t of soap, 600 t of detergents, 450 t of cooking oils based on partly 2-shift operation.

PRODUCTION UNIT: A sole-establishment enterprise founded in 1924. Private limited company. 100% local capital.

I. FIXED CAPITAL ASSETS		(in 000 US \$)	Year of comp.	Orig. purchase value	Replacement value
(End of 1966)					
1. Primary process equipment	Total:			64	70
- Process equipment				57	63
- Hand tools and apparatuses				1	1
- Cost of installation				6	6
2. Primary industrial building	Total:			46	56
(total floor space: 1,394 m ²)					
3. Auxiliary facilities	Total:			2	2
- Water, steam, electricity, cooling and storing				-	-
- Transportation facilities (1 pick-up)				2	2
(total load: .. t)					
- Administrative facilities				-	-
- Laboratory facilities				-	-
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excl. land):				112	128
4. Other fixed capital assets	Total:				
- Land (total acreage: .. m ²)			Leasehold		
DETAIL OF 1.1. (supplier):					
Automatic soap plant	(Italy)	1964		42	42
Expellers	(South Africa)	1941/43		11	
Maize mill (Grinder)	(UK)	1955		2	
Maize mill (Polieher)	(P.R. of Germany)	1955		2	
Seedcleaner	(UK)	1955		0.3	
				21	

HISTORY OF INVESTMENT:

Construction of the factory as well as production started in 1924.

In 1963 US \$ 42,000 were invested for the automation of the scrap-making process.

POWER PLANT:

Electric power: (22) 134 kW

Generation equipment:

- Installed capacity: - kVA

TRANSPORT:

Transport: Long distance, local area, fair.

Facilities: Electricity, water, gas, fair.

Community: Residential, health and recreational, educational, fair.

II. INVENTORIES AND WORKING CAPITAL		(in 000 US \$)
(End of 1966)	Actual value	
1. Inventories		
total:	27	
- Production materials	27	
- Other input materials	-	
- Work-in-process	-	
- Finished products	-	
2. Liquid assets		
total:	26	
- Cash (hand/bank),	1	
- Market.sec. & bonds	-	
- Short-term investment	-	
- Prepaid expenses	12	
- Accounts receivable	13	

3. Desired working capital	No. of months	Value
total:		
- Production materials	3	84
- Other input materials	-	-
- Other special items	3	49
- Finished products	-	-
- Wages and salaries	-	-

III. MANNING TABLE	1st shift	2nd shift	3rd shift
(1966 average)	Total		
TOTAL EMPLOYED:	35		
1. Primary operative shops	27		
	28	6	14
Soap department	20	2	10
Detergent mixing department	5	1	4
Maize and oil milling department	3	3	-

2. Auxiliary operative units	2	2	-	-
- Repair and maintenance	-	-	-	-
- Tooling shop	-	-	-	-
- Mechanical shop	-	-	-	-
- Utilities control	-	-	-	-
- Product and material storage	-	-	-	-
- Off-site transport	1	1	-	-
- Guards, cleaners, etc.	1	1	-	-

3. Auxiliary non-operative units	5	5	-	-
- Production management	2	2	-	-
- Research and development	-	-	-	-
- Sales unit	-	-	-	-
- Accounting	-	-	-	-
- General administration	3	3	-	-

CAPACITY OF OPERATIVE SHOPS:

		WORKING TIME PER OPERATIVE WORKER:	
- Normal hours/day:		7.5	hours
- Normal days/year:		298	days
- Actual hours/year:		-	hours

Shops	Processing capacity	Utilisation rate = %	Automation	Mechanis.
Soap	0.5 t/hour *	25	fully	fully
Detergents	600 t/year	10	no	fully
Oils (expellers)	1.5 t/hour	15	no	fully
Maize (grinder)	4 bags x 100 kg/hour	..	no	fully

* Machine is modified to produce 0.75 t/hour. 2-shift operation.

The low capacity utilisation is due to lacking demand for non-bran-
d soaps.

IV. ANNUAL PRODUCTION (in 000 US \$)

(1966)
Products (or group of products)

	Yr. of prod.	Quantity produced Unit	Nominal capacity output	Unit price at factory (US \$)	Total production value
Soaps	1955	t	1,000	4,300	461.4
Detergents	1963	t	60	600	390.6
Cooking oils	1924	t	76	..	504.7
Maize flour	1955	t	160	..	72.7
Others (shoepolish, etc.)	..	..	..	..	6
				TOTAL VALUE OF PRODUCTION	540

COMPETITIVE IMPORTS:

The tariff rate for soap and detergents is US \$ 0.12/lb and for cooking oil 25% ad valorem.

V. ANNUAL CONSUMPTION (in 000 US \$)

(1966)

1. Energy and water

	Quantity consumed	%	Total consumption value
- Electricity	000 kWh	93.09	6
- Fuel oil	gallons	15,800	2
- Water	gallons	394	0.1

2. Production materials

	4-gallon	drums	1,030	-	-	4
- Copra	t	26	-	-	-	4
- Groundnut	t	120	-	-	-	14
- Paddy	t	175	-	-	-	12
- Maize	t	106	100	30%	40	9
- Saladol	lbs	6,580	100	30%	231	8
- Perfume	t	1,500	100	30%	100	1
- Fatty acids	t	40	100	30%	100	1
- Textil	t	16	100	30%	100	1
- Caustic soda silicate	t	-	-	-	-	-
						323

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY (in US \$)

(1965)

1. Size groups by establishments

Establishments number employees*	No. of estab.	No. of empl.	Avg. no. of empl.	Avg. gross prod. val. per empl.	Avg. gross/ gross prod. ratio	ISIC-code
10 - 19	9	120	..	..	..	31
20 - 49	5	172	..	..	..
50 - 99	2	155	..	..	..
100 - 499	2	262	..	..	..
over 500	-	-	-	-	-	
total	18	709	682	3,842	..	

2. Size groups by scale of production of establishments

Up to	2
2 -	9
9 -	40
40 -	120
120 -	240
240 -	400
400 -	1,600
1,600 - 4,000	4,000
over	4,000

No data available

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

GOVERNMENTAL POLICIES:

Maize, groundnut, sisal-sisal, copra and paddy

production is controlled by the government.

Production quotas are allocated to firms
according to capacity.

VI. VALUE ADDED (in 000 US \$)

	Value
(1966)	
- Employees in direct production (30 persons)	11
- Other employees (5 persons)	19
2. Other payments for employees	0.3
3. Annual depreciation	7
4. Rentals paid	3
5. Interest and royalties	5
6. Sales tax	-
7. Other ind.bus.tax (Excise duty, (-) subsidies June-Dec. 1966)	47
8. Corporate income before tax	4
TOTAL VALUE ADDED:	96

VII. MONTHLY EARNING RATES (in US \$)

(End of 1966)

	No. of empl.	Average earning rates
1. Local non-operatives	5	302
total:	-	-
- Managers	1	560
- Engineers	1	318
- Technicians	1	420
- Accountants	-	-
- Sales officers	-	-
- Clerks and typists	2	112

2. Local operatives

	No. of empl.	Average earning rates
total:	30	28
- Supervisors	-	-
- Foremen	-	-
- Machine operators	-	-
- Craftsmen	1	28
- Truck drivers	1	30
- Other full-time operat.	28	28
- Unskilled operat.	-	-
- Part-time operat.	-	-

3. Foreign employees

total:

	Total consumption value
3. Other materials and supplies	51
total:	50
- Packaging (metal tins,cardboard boxes)	1
4. Business services purchased	64
total:	64
- Transport, storage and insurance	14
- Communications, advertising etc.	50
5. Work performed by sub-contractors	-
total:	-

TOTAL VALUE OF CONSUMPTION:
* 100% reported

444

Major Products:

Vegetable oils, fats and margarines. Capable of producing about 55,000 - 60,000 tons of processed oil products based on three-shift operation.

Reporting Unit:

A branch-establishment founded in 1950 of a fairly decentralized multi-establishment enterprise. Mixed private and public corporation. Business year from 1 August to 31 July, participation of foreign capital 67.0%; the national share is all in public capital.

I. FIXED CAPITAL ASSETS			II. INVENTORIES AND WORKING CAPITAL		
			(in '000 US \$)		
(End of 1966)					
	Year of installation	Orig. purchase value ('000 US \$)	Replacement value ('000 US \$)		
1. Primary process equipment					
TOTAL:		2,288	5,491		
- Process equipment		1,891	4,726		
- Hand tools & apparatuses		1,119	277		
- Cost of installation		279	468		
2. Primary industrial building					
TOTAL:	1950	664	1,659		
(total floor space: 6,800 m ²)		664	1,659		
3. Auxiliary facilities					
TOTAL:		634	1,585		
- Water, steam, electricity, cooling & storing	1950	111	277		
- Transportation facilities	1950-55	400	1,000		
- Administrative facilities	1955	123	307		
- Laboratory facilities		-	-		
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):		3,586	8,735		
4. Other fixed capital assets					
TOTAL:		15	6		
- Land (total acreage: 120,000 m ²)		15	6		
DETAIL OF PROCESS EQUIPMENT (in '000 US \$)					
	Supplier country	Year of installation	Orig. purchase value ('000 US \$)	Replacement value ('000 US \$)	
Refinery department	U.S.A.	1950	425.9	1,064.7	
Gas plant	"	"	204.9	512.3	
Hydrogenation station	"	"	97.0	242.5	
Deodorization	"	"	142.5	356.4	
Bottling and packing equipment	"	"	296.8	741.9	
Refrigeration equipment	"	"	76.0	189.9	
Boiler houses	"	"	129.3	323.2	
Water purification system	"	1966	40.7	101.8	
Plastic bottle production equipment	"	"	178.1	445.8	
Distillation station	"	1950	174.1	435.2	
Others			125.0	312.5	
HISTORY OF INVESTMENT:					
The factory was constructed in 1948. The first trial production started in 1949 and the first commercial production in 1950. The first profits were made when 80% of capacity were utilized. Following expansion investments were made: (in U.S. \$000)					
1955 appn	610	Hydrogenation department			
1956 "	625	Deodorization department			
1957 "	280	Pumping station			
1959 "	146	Deodorization department			
1960 "	250	Filling department			
1962 "	497	Hydrogenation department			
CAPACITY POWER:		Generating equipment:		Utilisation rate	
Process equipment:		Installed capacity	-	Actualization and Mechanization	
Electric power	4,600 kW		-		
EXTERNAL CONDITIONS:					
Transport	Long distance, fair; local area, ex. exp.				
Utilities	Electricity, water, excellent; gas, fair.				
Community	Residential, health and recreational, educational, all fair.				
III. MANNING TABLE			(number of persons)		
(1966 average)					
			A = Machine operators B = Other operators		
			1st shift Total A B		
			2nd shift A+B A+B		
			3rd shift A+B A+B		
ALL SHOPS & UNITS:					
1. Primary operative shops					
TOTAL:	631		362	149	170
Packing	396		102	49	92
Processing	234		60	35	50
Laboratory	5		..	2	1
2. Auxiliary operative units					
Repair and maintenance	104		99	2	3
Mechanical shop	"		-	-	-
Utilities control	-		-	-	-
Product & material storage	18		8	6	4
Off-site transport	5		2	2	1
Guards, cleaners, etc.	18		12	4	2
3. Auxiliary non-operative units					
Production management	3		3		
Research & development	12		12		
Sales unit	25		25		
General administration	50		50		
WORKING TIME PER OPERATIVE WORKER:					
shift	1	2	3		
Normal hours/day:	8	7.5	7	hours	- Normal days/year: 306 306 306 days
Actual hours/year:	2448	2295	2142	hours	
CAPACITY OF OPERATIVE SHOPS:					
Shops	Capacity		Utilisation rate		Automation and Mechanization
Deodorization	22 tons/day		90%		full
Hydrogenation	160 tons/day		90%		full
Gas plant	450,000 cu. ft.		60%		full
The Parent Enterprise:					
1.	Two of the sister branches which are functionally closely related to this branch, are: one dealing with raw cotton cultivation, purchase and sale (with 350 employees) and a food processing branch (with 500 employees).				
2.	The foreign participant supplies patents and know-how.				
3.	Total number of persons involved in the entire enterprise is a little over 1,500. The central office is located separately with 330 employees and annual operating costs of approx.US \$ 1.7 million.				

IV. ANNUAL PRODUCTION

(1966)		Quantity produced	Nominal capacity output	Unit price at factory (US \$)*	Total production value (1000 US \$)
Products (or group of products)	Yr. of first prod.	Unit	Output		
Refined vegetable oils	1950	ton	13,728	13,832	488 6,699
Vegetable fats and compounds	"	"	35,954	37,856	492 17,689
Margarines and shortenings	"	"	3,640	4,732	440 1,602
Peanut butter	"	"	120	120	440 53
Other products	"	"	..	..	.. 597
					TOTAL VALUE OF PRODUCTION: 26,640

* Unit price does not include sales tax

EXPORTS: Nons.

MARKET:

A significant part of the output is sold to one of the sister branches dealing with food manufacture

CAPACITY UTILIZATION:

The existing capacity is considered as fully utilized. The figures given above for nominal capacity outputs are based on the assumption of full three shifts (8hrs on all shifts) and 52 weeks/year.

VI. VALUE ADDED

(1966)		Value (1000 US \$)
1. Wages & salaries		
- Employees in direct production (541 persons)		5,10
- Other employees (90 persons)		140
2. Other payments for employees		120
3. Annual depreciation		240
4. Rentals paid		3
5. Interest on working capital		459
6. Sales tax (not incl. in TOTAL)		(158)
7. Other Ind. bus. taxes		-
8. (-) Subsidies		(-) 11
9. Corporate income before tax		822
		2,493

and 2493

V. ANNUAL CONSUMPTION

(1966)		Quantity consumed			Total consumption value (1000 US \$)
		Unit	Purchase	% Imported	Tariff rate
1. Energy and water					
TOTAL:		000Kwh	9,206		326
- Electricity					145
- Liquid fuels and lubricants (incl in matls. and sup. for non-manuf. activities)					
- Gas		000 m ³	64.6		89
- Steam		000 m ³	274.3		90
- Water		000 m ³	474		2
2. Production materials					20,800
TOTAL:		ton	25,000	-	10,800
- Crude cotton oil		"	5,000		1,840
- Crude soya oil		"	10,000		4,080
- Crude saffron oil		"	5,000		2,000
- Crude sesame oil		"	5,000		2,080
- Crude coconut oil		"	5,000		

VII. MONTHLY EARNING RATES

(End of 1966)		No. of avg. earning per. emplo.	Average earning (US \$)
1. Local non-operatives			
TOTAL:		97	220
- Managers		2	800
- Engineers		3	520
- Technicians		13	256
- Accountants		2	400
- Sales officers		25	264
- Other professional staff		14	184
- Clerks & typists		18	128
2. Local operatives			
TOTAL:		512	115
- Supervisors		14	520
- Foremen		9	168
- Machine operators		45	112
- Craftsmen		81	116
- Truck drivers		5	108
- Other full-time operatives		154	112
- Unskilled & part-time operatives		213	80
- Other specific categories		9	112
3. Foreign employees			
TOTAL:		2	2,020
- Managerial staff		1	2,040
- Engineers, trainees and other tech. control staff		1	2,000
4. Other materials & supplies			
TOTAL:			2,448
- Packagings		-	2,080
- Repair & maintenance		57	240
- Non-factory service inputs		-	128
5. Business services purchased			
TOTAL:			573
- Transport, storage & insurance			36
- Communication, advertisements, etc.			537
6. Work performed by sub-contractors			
TOTAL:			-
			24,147

24,147

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group: Vegetable and animal oils and fats (ISIC: 3121)

1. Size groups by number of persons employed	Number of emplo. total	Number of emplo. emplo.	Av. prod. val. (US \$)		
			W. & S. per pers.	per pers.	Av. exp. gross prod. ratio (%)
up to 5	25	81	448	13,876	41
6 - 15	16	164	1,303	12,960	57
16 - 75	10	374	1,397	12,797	59
101 - 500					
					(Data for this size class not reported in the national census)
TOTAL	51	619	1,248	12,981	56
2. Size groups by value of annual production (1000 US \$):					
Up to 8	7	17	112	1,449	136
8 - 40	15	63	410	5,475	43
40 - 240	23	182	931	11,646	61
240 - 400	4	58	1,977	22,984	53
400 - 500	7	313	1,472	13,537	55
1,600 - 4,000					
					(Data for this size class not reported in the national census)
TOTAL	56	633	1,220	12,732	56

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

GOVERNMENTAL POLICIES:

Purchase prices of seeds and sales prices (upper boundaries) of finished products are fixed by the government. Abolition of these pricing restrictions is desired.

Major Products: Milk margarine, other margarines, shortenings, compound fat, margarine lard and edible oils.
In 1967, the total output amounted to approximately 2,000 t of milk margarines, 1,200 t of other margarines, 780 t of shortenings and 500 t of edible oils on 1-shift operation.

Reporting Unit: One-establishment enterprise; founded in 1951; privately owned; medium-sized; 76 employees; no exports; no license and research activities.

I. FIXED CAPITAL ASSETS

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Val.)
1. Primary process equipment (including installation cost)			
TOTAL:	216	240	
- Process equipment *	214	238	
- Hand tools & apparatuses	2	2	-
2. Buildings			
TOTAL:	297	391	
- Primary industrial buildings (total floor space: 1,028 m ²)	134	174	4-16
- Auxiliary buildings	63	77	15
- Warehouses	32	39	15-50
- Office administration buildings	68	101	50
- Housing	-	-	-
3. Auxiliary facilities (excl. buildings)			
TOTAL:	135	145	
- Internal power equipment	45	50	4
- Laboratory facilities	2	3	10
- Means of transportation	55	56	5
- Office equipment	33	36	5
TOTAL PHYSICAL FIXED ASSETS (excluding land):	648	776	
4. Other fixed capital assets			
TOTAL:	55	361	-
- Land (total acreage: 11,512 m ²)	32	266	-
- Land improvements (t.acr. 3,562")	10	82	-
- Others (incl. intangible assets)	13	13	-

*NB. Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

	(1967 monthly average)					
	Up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 560 US\$	over 560 US\$
1. Local non-operatives						
- Managers	-	-	-	-	-	5
- Engineers	-	-	-	-	2	-
- Technicians	-	-	-	1	-	-
- Accountants	-	-	-	-	1	-
- Sales officers	-	-	-	-	12	-
- Clerks and typists	-	-	-	1	11	-
2. Local operatives						
- Supervisors	-	-	-	15	-	-
- Foremen	-	-	7	7	-	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators	-	-	-	-	-	-
- Craftsmen	-	-	-	-	-	-
- Truck drivers	-	-	-	-	-	-
- Unskilled operatives	-	7	7	-	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

included in 1.

included in 1. and 2.

EXTERNAL CONDITIONS:

Transport:	- external long distance: fair
	- internal long distance: insignificant
	- local and city: fair
Utilities:	- electricity: excellent
	- water: "
	- gas: "
Community:	- residence: fair
	- health and recreation: "
	- education: "
Own Welfare Facilities:	-

IV. MANNING TABLE

(Number of personnel)

	(1967 average)						
	Total	A	B	C	D	E	F
ALL SHOPS & UNITS:	76	35	6	41	-	-	-
1. Primary operative shops	24	4	-	20	-	-	-
- Margarine manufacturing shop	22	4	-	18	-	-	-
- Oil bottling shop	2	-	-	2	-	-	-
2. Auxiliary operative units	25	4	-	21	-	-	-
- Repair & maintenance	4	1	-	3	-	-	-
- Mechanical shop	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-
- Utilities control	1	1	-	-	-	-	-
- Product & material storage	4	1	-	3	-	-	-
- Off-site transport	10	1	-	9	-	-	-
- Guards, cleaners, etc.	6	-	-	6	-	-	-
3. Auxiliary non-operative units	27	27	-	-	-	-	-
- Production management	1	1	-	-	-	-	-
- Research & development	-	-	-	-	-	-	-
- Sales unit	16	16	-	-	-	-	-
- Accounting	8	8	-	-	-	-	-
- General administration	2	2	-	-	-	-	-

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories		
TOTAL:	162	
- Production materials	116	1
- Other input materials	-	-
- Work-in-process	-	-
- Finished products	46	1/3

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	
- Shift hours/day:	9	-	-	hours
- Actual hours/year:	1,939	-	-	days
- Actual employees:	221	-	-	

Major Products: Plastic foam, battery cases, rubber liners and synthetics.
Capable of producing annually approximately 3,300 t of plastic foam, 4,200 t of battery cases and 60 t of synthetics based on 2-and 3-shift operation. Full-capacity output amounts to 6,500,000 US \$.

Reporting Unit: A branch of a 4-establishment joint stock company; privately owned; founded in 1947; 480 employees. Process equipment meets modern standards. Licensed production of plastic foams; research and development conducted by centralised laboratories (see MIDDLE EUROPE : 300 - (1 a)). 45% exports.

I. FIXED CAPITAL ASSETS

(End of 1967)	Original purchase value (1000 US \$)	Fire insurance value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	..	2,239	..
- Process equipment	..	2,239	..
- Hand tools & apparatuses			
2. Buildings	..	1,566	..
TOTAL			
- Primary industrial buildings (total floor space: 12,006 m ²)			
- Auxiliary buildings			
- Warehouses	..	1,566	..
- Office administration buildings			
- Housing			
3. Auxiliary facilities (excl. buildings)	
TOTAL			
- Internal power equipment			
- Laboratory facilities	(*)		
- Means of transportation			
- Office equipment			
TOTAL PHYSICAL FIXED ASSETS (excluding land):	..	3,805	
4. Other fixed capital assets	
TOTAL			
- Land (total acreage: 53,912 m ²)			
- Land improvements (t.scr. 20,208 m ²)	
- Others			

(*) Figures are included in both primary process equipment and buildings.

** Details of process equipment and capacity of primary operative shops are given on Page three (Section I III).

EXTERNAL CONDITIONS:

Transport:	external long distance	excellent
	internal long distance	excellent
	local and city	insignificant
Utilities:	electricity	fair
	water	fair
	gas	insignificant
Community:	residence	excellent
	health and recreation	excellent
	education	excellent
Own Welfare Facilities:	-	

III. INVENTORIES

(End of 1967)	Annual value (1000 US \$)	Number of months
Inventories	1,036	
TOTAL:		
- Production materials	286	1.5
- Other input materials	51	3.2
- Work-in-process	133	0.4
- Finished products	565	1.0

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours
			8
Shift hours/day:			
Actual hours/year:	1,706		hours
Actual days/year:	213		days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	up to 100 US\$	100 US\$	140 US\$	160 US\$	240 US\$	over 560 US\$
--	----------------------	-------------	-------------	-------------	-------------	---------------------

1. Local non-operatives

- Managers	-	-	-	-	-	2
- Engineers	-	-	-	-	-	1
- Technicians	-	-	-	9	2	-
- Accountants	-	-	-	-	8	-
- Sales officers	-	-	-	2	2	-
- Clerks and typists	-	5	3	10	-	-
- Supervisors	-	-	-	2	3	-
- Foremen	-	-	-	3	-	-

2. Local operatives

- Supervisors (*)	-	-	-	-	-	-
- Foremen	-	-	-	-	-	-
- Skilled operatives	-	-	-	28	-	-
- Machine operators	-	-	-	118	-	-
- Craftsmen	-	-	-	21	-	-
- Truck drivers	-	-	-	7	-	-
- Unskilled operatives	-	21	11	57	-	-
- Other full-time operatives	-	-	56	78	-	-
- Part-time operatives	-	-	-	-	-	-

3. Foreign employees

- Managerial staff						
- Technical staff						
- Other skilled operatives						
- Unskilled operatives						

Figures are included in local non-operatives and operatives.

(*) Company considers supervisors and foremen as local non-operatives.

IV. MANNING TABLE

(number of persons)

(As per 30 June 1968)

	Total	Skill categories:		
		1st Shift	2nd Shift	3rd Shift
ALL SHOPS & UNITS:	478	70	408 (*)	-----
1. Primary operative shops	292	15	81	152
- Raw material processing dept.	12	1	3	8
- Battery case department	111	2	10	81
- Synthetic department	16	2	5	3
- Liner department	29	2	10	14
- Single elements department	11	-	1	8
- Plastic foam department	17	3	4	7
- Plastic foam trimming departm.	72	4	47	14
- Brake lining department	24	1	1	17
2. Auxiliary operative units	122	16	106 (*)	-----
- Repair & maintenance	40	3	37	-
- Mechanical shop	-	-	-	-
- Tooling shop	-	-	-	-
- Utilities control	4	2	2	-
- Product & material storage	60	11	49	-
- Off-site transport	14	-	14	-
- Guards, cleaners, etc.	-	-	-	-
- Others	4	-	4	-
3. Auxiliary non-operative units	64	39	25 (*)	-----
- Production management	5	3	2	-
- Research & development	11	11	-	-
- Sales unit	-	-	-	-
- Accounting	9	9	-	-
- General administration	39	16	23	-

(*) 2-and 3-shift operation.

V. ANNUAL PRODUCTION

(1967)	Yr. of first prod.	Quantity produced	Avg. unit price on factory gate (\$)	Total output value (\$'000 U.S.\$)
Products (or group of products)		Unit	Quantity	
Milk margarine	1952/ 1958	t	2,010	448.2
Other margarines	1952	"	1,187	358.0
Shortenings	1952	"	781	428.9
Compound fats	1952	"	32	406.2
Margarine lard	1952	"	28	428.6
Edible oils	1952	"	506	387.3

VI. VALUE ADDED

(1967)		Total value (\$'000 US \$)
1. Annual wages & salaries		
- Operative workers	71	182
1. 41 persons		
- Non-operative workers	105	
1. 35 persons		
2. Other payments for employees		28
3. Annual depreciation		35
- Machinery & equipment	21	
- Buildings & other facilities	6	
- Non-physical capital assets	2	
4. Rentals paid		3
5. Interest & royalties		7
6. Sales tax		32
7. Other indirect business taxes		19
8. (-) Subsidies		-
9. Corporate income before tax		22

TOTAL VALUE OF PRODUCTION: 1,882

TOTAL VALUE ADDED: 329

DESCRIPTION OF MAJOR PRODUCTS

Milk margarine	Boxes of	20 pds / 0.25 kg	and	boxes of	4 pds / 2.5 kg.
Other margarines	Packages of	2.5 kg	"	barrels of	180 kg.
Shortenings	Packages of	2.5 kg	"	barrels of	180 kg.
Compound fats	Boxes of	20 pds / 0.25 kg	"	boxes of	4 pds / 2.5 kg. and barrels of 180 kg.
Margarine lard	Packages of	10.25 kg	"	packages of	180 kg.
Edible oils	Cans of	1.3 l	"	barrels of	50 kg.
		10 l	"		180 kg.

Characteristics: manufactured in series, easily digestible, cheap, prompt delivery.

MARKET ASPECTS

Re-sale:

US \$ 14,300.- in 1967. Hardened fat for candy production.

Customer:

Bakeries, manufacturers of bread and candies.

Sales Organization

Enterprise has own staff of salesmen.

Extent of the market

Enterprise is capable of supplying 30% of the total domestic market

Share in the domestic market:

Margarine: 8 - 9%, oil: 3%

Competition with domestic producers

One large competitor determines the conditions prevailing in the market. Prices for margarines are subject to regulation. Almost no differences in quality between competing products.

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REPORT

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VII. ANNUAL CONVENTION

	<u>Quantity consumed</u>	<u>%</u>	<u>Total consumption</u>
	<u>Units</u>	<u>Imports</u>	<u>Value</u>
1. Energy and water			
TOTAL:			16
- Electricity	000 kWh	199	7
- Coal	t	4	0.2
- Fuel oil	t	100	2
- Fuels	t	44	5
- Gas	000 m ³	10	0.3
- Water	000 m ³	26.5 (e)	1
- Steam	000 m ³	1 (ee)	-
2. Production materials			
TOTAL:			1,168
- Animal fats and oils	t	1,793	410
- Vegetable fats and oils	t	1,679	728

	Total
3. Other materials & supplies	
TOTAL:	127
- Repackaging material	123
- Parts, supplies & services	-
- Other materials & supplies	4
4. Business services purchased	
TOTAL:	243
- Transportation, storage &	45
insurance	
- Communication, advertising &	193
other business services	
5. Work performed by subcontractors	
TOTAL:	-

(*) 18,000 as internal supply not included.

(*) Internal supply not included.

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (8.1):

	Number	Original Purchase Value (1000 US \$)	Repre- sentative value (1000 US \$)	Ave. Age yrs	Remarks SH Purchased second-hand OR Obsolete R Renewed SC Self-reconstructed	Supplier	Year of instal- lation	Daily running time	Capacity output
Rotary mixers	2	41.8	46.4	3-11		FR.Germ.	1958,1964	5 hrs	15 t/day
Automatic packing machine (for 0.25 kg cubes)	1	28.8	29.0	2		FR.Germ.	1965	5 hrs	10 t/day
Automatic packing machine (for 0.25 kg cubes)	1	27.0	27.1	2		FR.Germ.	1965	5 hrs	10 t/day
Packing machines (for 2.5 kg blocks)	2	23.2	25.2	2-10		FR.Germ.	1961,1964	5 hrs	6 t/day
Packing machine (for 0.25 kg blocks)	1	5.1	7.7	16	SH	FR.Germ.	1961,1964	5 hrs	6 t/day
Kneader	1	2.1	2.3	3					
Cooling drum	1	0.2	0.5	20					
Roller	1	0.6	1.5	20					
Emulsifiers	3	13.2	15.5	7	SC	-	1952,1958,1967	5 hrs	15 t/day
Packing machines for samples	1	0.7	0.8	5					
Lift truck (1,250 kg capacity)	1	5.4	5.8	4					
Lift trucks	2	3.1	3.3	3-5					
Manual lift trucks	2	0.2	0.3	5					
Storage tanks	42	15.1	17.0	8					
Scales	14	2.7	3.0	6.5					
Conveyor belts	2	1.2	1.5	0					
Cardboard stapling machines	3	2.0	2.3	5					
Pumps	4	3.9	5.0	5-8					
Compressors	5	10.9	13.5	8					
Others	..	26.6	29.8	..					

CAPACITY POWER:

Process equipment:

- electric motors (65) 260 kW

Generating equipment:

- installed capacity - kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops

Kind of process involved

Mechanization:
 A: most advanced
 B: appreciably short of today's standard
 C: moderate standard
 D: appreciably short of today's standard
 E: almost automated

Automation:
 I: fully automated
 II: semi-automated

Machine.

Auton.

Further details:

Both mechanization and automation can be considered to be considerably high.

CAPACITY UTILIZATION:

Full-capacity output: The plant is likely to produce some 4,000 - 5,000 t of margarine and 500 - 700 t of edible oils annually on 1-shift operation.

Current utilization:

Major products for processing	up to 30 40 50 60 70 80 90 100								Approximate %
	10	20	30	40	50	60	70	80	

The present rate of utilization is satisfactory. However, the enterprise thinks to reach maximum capacity output only after changing to 3-shift operation. This would necessitate 1 additional non-operative on each of the 3 shifts as well as 3 more operatives on the 1st and 40 more on the 2nd and 3rd shifts each. Furthermore, some US \$ 115,000,- would have to be invested. Due to saturation of the market it is rather doubtful whether this can be achieved at all.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	1963	Total output (1000 US \$)	No. of persons employed	Total exports (1000 US \$)
	1,698	90	-	-
1964	1,927	94	-	-
1965	2,133	90	-	-
1966	2,020	86	-	-
1967	1,882	76	-	-
1968	2,128	76	-	-

2. Investments in the past: (*)

	Approximate amount (1000 US \$)	Type of investment
From 1963 to 1964 :	89	Additional buildings
" 1963 " 1964 :	135	Machinery and transportation fac.
" 1965 " 1966 :	132	New buildings and installations
" 1965 " 1966 :	28	Transportation facilities

3. Future Plan: No plan reported.

From 1969 to 1970:

(*) Construction started in 1951, production in 1952; break-even point could not be surpassed until 1960.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C* = Confidential; figures of these size groups are included in those underlined.

(1964)

Industry Vegetable and animal oil and fats (ISIC Code: 312)

1. Size groups by number of persons employed:	No. of comp.	No. of emp.	Ave. W. & L. per pers. (1000 US \$)	Ave. gross prod. val./per pers. (1000 US \$)	Ave. value added/gross prod. value (%)
up to 19	26	115	1,600	12,306	31
20 - 99	6	1,430	2,372	21,195	C*
100 - 499	2	C*	C*	C*	C*
500 - 999	1	C*	C*	C*	C*
over 1,000	-	-	-	-	-

TOTAL: 35 1,545 2,321 26,568 30

2. Size groups by annual value of production (1000 US \$):	No. of comp.	No. of emp.	Ave. W. & L. per pers. (1000 US \$)	Ave. gross prod. val./per pers. (1000 US \$)	Ave. value added/gross prod. value (%)
up to 20	11	2	522	17,725	52
20 - 40	4	C*	C*	C*	C*
40 - 200	7	54	1,161	11,184	35
200 - 400	3	C*	C*	C*	C*
400 - 2,000	6	1,489	2,365	27,136	30
over 2,000	4	C*	C*	C*	C*

TOTAL: 35 1,545 2,321 26,568 30

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- | | | |
|---|-----------------------------|--|
| 1. Engineering study | 5. Technical and managerial | 8. Import and export |
| 2. Financial assistance | 6. Personnel | 9. Transaction |
| 3. Industrial services | 7. Industrial training | |
| 4. Equipment supply,
including & maintenance | 8. Technical consultancy | 9. Administration of foreign
labour |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

No co-operation possibilities with developing countries reported.

XII. SUPPLEMENTS & NOTES

Current problems: Keen competition; prices for products not covered by price regulations are subject to heavy pressure, very tight calculation required.

Major Products: Paints and synthetic resins. Capable of producing annually 2,400,000 l of paints on a 2-shift operation and 116,100 l of resins on 3-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1948; private corporation; no participation of foreign capital. The enterprise has 13 sales branches separately located, employing altogether 60 persons. The central office is also located separately.

I. FIXED CAPITAL ASSETS			
	Year of installation	Orig. purchase value (1000 US \$)	Replacement value (1000 US \$)
(End of 1966)			
1. Primary process equipment			
TOTAL:		277	..
- Process equipment		212	
- Hand tools & apparatuses		18	..
- Cost of installation		47	
2. Primary industrial building		219	..
TOTAL:		219	..
(total floor space: 10,000 m ²)		219	..
3. Auxiliary facilities		116	..
TOTAL:		..	
- Water, steam, electricity, cooling & storing		-	
- Transportation facilities		36	..
- Administrative facilities		-	
- Laboratory facilities		80	..
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):		612	..
4. Other fixed capital assets		20	132
TOTAL:		20	132
- Land (total acreage: 15,000 m ²)		20	132
DETAIL OF PROCESS EQUIPMENT (in):	Supplier country	Year of installation	Orig. purchase value (1000 US \$)
			Replacement value (1000 US \$)
- Resins plants	FR.Germ. and USA	1961	41
- Paints department	"	1952-1958	156
- Laboratory	"	1952-1958	14

HISTORY OF INVESTMENT:

Construction of the factory was started in 1952. The first trial as well as commercial production started in 1952. The break-even point was surpassed for the first time, when 80% of capacity was utilized. The following investments in subsequent years:

1952	US \$ 160,000	starting paints production
1958	" " 140,000	expansion "
1961	" " 111,000	starting resins "

CAPACITY POWER: Process equipment: - Electric motor:	Generating equipment: Installed capacity: - kVA
---	--

EXTERNAL CONDITIONS: Transport:	Long distance and local area, fair.
Utilities:	Electricity, excellent; water, self-supply.
Community:	Residential, health, recreational and educational, poor.

II. INVENTORIES AND WORKING CAPITAL (in 1000 US \$)

(End of 1966)		Actual value	2. Liquid assets	Actual value
1. Inventories			TOTAL:	533
TOTAL:		569	- Cash (hand/bank)	51
- Production materials		281	- Market, sec. & bonds	-
- Other input materials		-	- Short-term investment	-
- Work-in-process		-	- Prepaid expenses	-
- Finished products		288	- Accounts receivable	482
3. Desired working capital	Number of months	Value		
TOTAL:		1,096		
- Production materials	4	280		
- Other input materials	-	-		
- Finished products	1.5	288		
- Wages & salaries	2	48		
- Other special items	3	480		

III. MANNING TABLE (number of personnel)

(1966 average)		Total	1st shift	2nd shift	3rd shift	A = Machine operators	B = Other operators
		Total	A	B	A+B	A	B
ALL SHOPS & UNITS:		211	186	21	4		
1. Primary operative shops		61	19	20	12 7	3	-
- Furnaces		4	2	-	2	-	-
- Reactors		10	4	-	3	-	3
- Mills		8	5	-	3	-	-
- Smoothing		6	6	-	-	-	-
- Packaging		6	2	-	4	-	-
- General operatives and assistants		27	-	20	- 7	-	-
2. Auxiliary operative units		26	23	2	1		
- Repair and maintenance		5	4	-	-	-	-
- Mechanical shop		-	-	-	-	-	-
- Utility control		5	5	-	-	-	-
- Product & material storage		8	8	-	-	-	-
- Off-site transport		3	3	-	-	-	-
- Guards, cleaners, etc.		5	3	-	2	-	-
3. Auxiliary non-operative units		124	124	-	-	-	-
- Production management		19	19	-	-	-	-
- Research & development		-	-	-	-	-	-
- Sales unit (13 sales branches)		60	60	-	-	-	-
- General administration		45	45	-	-	-	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day:	8 hours	Normal days/year:	302 days
Actual hours/year:	2,416 hours		

CAPACITY OF OPERATIVE SHOPS:

The capacity of reactors department is 116,200 l of resins. It is highly automated and mechanised, and fully utilized.

The management and administration (central office) is located separately, having 27 employees. The wages and salaries and other annual operating costs of the central office amount to US \$ 103,400.

IV. ANNUAL PRODUCTION

(1966)	Yr. of first prod.	Quantity produced	Nominal capacity output	Unit price or factory (US \$)	Total production value (1000 US \$)
Products (or group of products)	Unit	Output			
- Paints	1952	000 1	1,567	2,400	2,006
- Resins	1961	000 1	116.2	116.1	149
TOTAL VALUE OF PRODUCTION					2,155

VI. VALUE ADDED

(1966)	Value (1000 US \$)
1. Wages & salaries	
- Employees in direct production (87 persons)	79
- Other employees (124 persons)	253
2. Other payments for employees	477
3. Annual depreciation	36
4. Rentals paid	20
5. Interest & royalties	106
6. Sales tax (not incl. in TOTAL)	(54)
7. Other ind. bus. taxes	46
8. (-) Subsidies	(-) 8
9. Corporate income before tax	147
	1,156
-----	-----

EXPORTS: None.CAPACITY UTILIZATION:

The new plant for synthetic resins is operating at full capacity.
 The demand for paints is subject to seasonal fluctuations. Despite the strong sales effort, using 13 own sales branches, it is difficult to realize the 2,400 t/yr. level (current maximum production level estimated for the plant).

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed	Unit	Percent	% Imported	Total consumption value (1000 US \$)
1. Energy and water					
TOTAL:					13
- Electricity	000 Kwh	..			9
- Liquid fuels and lubricants		..			4
2. Production materials					821
- Flax seed oil	t	78	-		29
- Titanium bioxide	t	52	-		39
- Other pigments	t	43	40		39
- Other oils	t	68	-		31
- Alkyd resins and vinylic resins	t	150	-		82
- Other resins	t	98	80		165
- Cresylic acids	t	140	100		56
- Resorcin	t	40	100		53
- Phthalic anhydride	t	50	80		28
- Naphtha, telvol and other solvents	m3	844	-		94
- Octylphenol	m3	35	100		20
- Others (tar, butylphenol, etc.)		..			185

VII. MONTHLY EARNING RATES

No. of per- son- empl.	Average earning rate (US \$)
(End of 1966)	
1. Local non-operatives	
TOTAL:	356
- Managers	1,600
- Engineers	480
- Technicians	240
- Accountants	320
- Sales officers	480
- Other professional staff	-
- Clerks & typists	160
2. Local operatives	90
TOTAL:	134
- Supervisors	720
- Foremen	160
- Machine operators	160
- Craftsmen	112
- Truck drivers	120
- Other full-time operatives	80
- Unskilled & part-time operatives	-
3. Foreign employees	1,120
TOTAL:	1,120
- Managerial staff	1,120
Total consumption value (1000 US \$)	999
-----	-----

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)	Industry group: Manufacture of paints, varnishes and lacquers (ISIC: 313)				
1. Size groups by number of persons employed	Number of units	Number of emp.	Ave. W. &. S. per unit	Ave. gross prod. val. per unit	Ave. exp. gross prod. ratio (%)
up to 25	70	743	1,364	22,029	65
26 - 50	25	915	1,938	12,748	59
51 - 100	9	558	2,087	14,294	73
over 100	11	2,187	1,946	15,080	68
TOTAL:	115	4,403	1,864	13,812	67
2. Size groups by value of annual production (1000 US \$):					
up to 8	9	25	384	1,968	134
8 - 40	19	104	603	3,967	107
40 - 120	20	258	1,035	6,233	66
120 - 240	22	407	1,402	9,359	70
240 - 400	17	391	1,820	13,492	64
400 - 1,600	22	1,167	2,048	14,040	65
1,600 - 4,000	7	1,112	2,171	15,193	77
over 4,000	3	945	1,686	17,383	57
TOTAL:	115	6,002	1,861	13,812	67

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

Government policies:

Problems in importing those production materials which are not yet produced in the country. Those non-competitive imports ought to be facilitated.

Future plan:

Within the period from 1966-1969, apprx. US \$ 240,000 will be invested for tripling the production of resins. Additional 15 operatives will then be employed.

Major Products:

Synthetic resin and oil varnishes, paints, thinners and other related products.
Total annual output amounted to approximately 15,000 t of varnishes, 1,600 t of paints and putties, and 700 t of thinners, based on 1-shift operation.

Reporting Unit:

A one-establishment enterprise, privately owned, founded in 1947; 450 employees; largest company in this line of business in the country; favourably located with respect to proximity of market; about 30% of staff engaged in research activities; high rate of exports; expenditures for research approximately US \$ 1.6 million.
Business year: 1/5/1967 - 30/4/1968.

I. FIXED CAPITAL ASSETS

(30/5/1968)

	Original purchase value (1000 US \$)	Replace (*) ment value (1000 US \$)	Avg. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	920	1,355	6
- Process equipment *	920	1,355	6
- Hand tools & apparatuses			
2. Buildings			
TOTAL	1,420	1,147	
- Primary industrial buildings (total floor space: 5,425 m ²)	542	406	
- Auxiliary buildings	514	478	
- Warehouses	238	201	
- Office administration buildings	126	62	
- Housing	-	-	
3. Auxiliary facilities (excl. buildings)			
TOTAL	477	545	4
- Internal power equipment	-	-	
- Laboratory facilities	116	128	4
- Means of transportation	224	266	3
- Office equipment	137	151	5
TOTAL PHYSICAL FIXED ASSETS (excluding land):	2,817	3,047	
4. Other fixed capital assets			
TOTAL	789	1,358	
- Land (total acreage: 40,866 m ²)	..	237	
- Land improvements (t.acr. 16,284 ")	..	132	
- Others	789	789	

(*) Fire insurance value

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

Number of personnel

(1967/68 monthly average)

Up to 100 US\$	100 US\$	140 US\$	140 US\$	160 US\$	160 US\$	240 US\$	240 US\$	over 560 US\$
----------------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	---------------------

1. Local non-operatives

- Managers	-	-	-	-	-	-	-	24
- Engineers	-	-	-	-	-	-	-	2
- Technicians	3	5	4	24	26	-	-	
- Accountants	-	-	-	3	5	-	-	
- Sales officers	-	-	-	-	22	6	-	
- Clerks and typists	4	14	-	20	6	-	-	
- Supervisors	-	-	-	3	18	-	-	

2. Local operatives

- Supervisors (*)	-	-	-	-	-	-	-	-
- Foremen	-	-	-	-	-	-	4	-
- Skilled operatives	-	-	-	-	27	-	-	-
- Machine operators	-	-	-	3	18	-	-	-
- Craftsmen	-	-	-	-	-	4	-	-
- Truck drivers	-	-	-	-	-	-	-	-
- Unskilled operatives	-	28	-	7	-	-	-	-
- Other full-time operatives	-	-	18	120	-	-	-	-
- Part-time operatives	-	-	-	-	-	-	-	-

3. Foreign employees

- Managerial staff	Included in above figures.
- Technical staff	
- Other skilled operatives	
- Unskilled operatives	

(*) The company considers supervisors as local non-operatives.

EXTERNAL CONDITIONS:Transport: external long distance excellent
internal long distance fair
local and city insignificantUtilities: electricity fair
water "gas "Community: residence fair
health and recreation "
education "

Own Welfare Facilities:

III. INVENTORIES

(30/5/1968)

	Actual value (1000 US \$)	Number of months
Inventory	902	
TOTAL:	581	1
- Production materials	6	1
- Other input materials	15	1
- Semi-finished products	300	1/5
- Finished products		

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day:	10(*)	-	-	hours
Actual hours/year:	2,068	-	-	hours
Actual days/year:	209	-	-	days

(*) Due to overtime. Normal hours: 9 shift.

IV. MANNING TABLE

Number of personnel

(as per 31/12/1967)

Total	A	B	C	D	E	F	G	H
-------	---	---	---	---	---	---	---	---

ALL SHOPS & UNITS:

459	217	242	-	-	-	-	-	-
93	2	-	72	19	-	-	-	-
-	-	-	-	-	-	-	-	-
- Cooking	3	-	3	-	-	-	-	-
- Grinding	17	1	16	-	-	-	-	-
- Mixing	23	1	13	9	-	-	-	-
- Conditioning	4	-	4	-	-	-	-	-
- Completing	13	-	12	1	-	-	-	-
- Shading	10	-	10	-	-	-	-	-
- Filling	23	-	14	9	-	-	-	-

2. Auxiliary operative units

131	31	100	-	-	-
21	3	18	-	-	-
- Repair & maintenance	-	-	-	-	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	-	-	-	-	-
- Utilities control	3	3	-	-	-
- Product & material storage	33	6	27	-	-
- Off-site transport	18	7	11	-	-
- Guards, cleaners, etc.	34	1	33	-	-
- Others	22	11	11	-	-

3. Auxiliary non-operative units

235	184	51	-	-	-
12	-	-	-	-	-
119	68	51	-	-	-
63	63	-	-	-	-
25	25	-	-	-	-
16	16	-	-	-	-

V. ANNUAL PRODUCTION

(1967/68)

Products (or group of products)

	Vt. of prod.	Quantity produced Unit	Quantity	Avg. unit price at factory US \$	Total output value (000 US \$)
- Oil paints and putties	..	t	637	640	408
- Paints and varnishes based on oil and synthetic resins	..	"	9,038	816	7,377
- Other paints and lacquers	..	"	6,278	814	5,113
- Thinners based on oil and synthetic resins	..	"	451	146	156
- Thinners for other oil paints and varnishes	..	"	261	429	112
- Emulsions and dispersions	..	"	1,011	593	600
- Coating material, auxiliary material	..	"	40	735	29

TOTAL VALUE OF PRODUCTION: 13,795

VI. VALUE ADDED

(1967/68)

	Total value (000 US \$)
1. Annual wages & salaries	
- Operative workers (245 persons)	685
- Non-operative workers (207 persons)	1,454
2. Other payments for employees	121
3. Annual depreciation	322
- Machinery & equipment	58
- Buildings & other facilities	158
- Non-physical capital assets	106
4. Rentals paid	27
5. Interest & royalties	186
6. Sales tax	300
7. Other indirect business taxes (Fees)	24
8. (-) Subsidies	-
9. Corporate income before tax	1,990

TOTAL VALUE ADDED: 5,109

DESCRIPTION OF MAJOR PRODUCTS:

Quality of products and customer service are superior to those of competitors.

Packings: cans and barrels.

Terms of delivery: 1 - 2 weeks after placement of order by the customer.

MARKET ASPECTS:

Re-sales:

Sales of raw material, mainly thinners, resulting from barter-transactions, amounting to US \$ 515,000.

Consumers of products:

Mainly automobile industry, furniture industry, metalworking industry, building trade.

Sales organisation:

Company employs salesmen to cover domestic market. Otherwise direct sales.

Extent of the market:

Sales radius: primarily domestic market. Subsidiary companies in 2 European states and the USA produce under licence agreements.

Share in the domestic market: 34%.Export price policy:

Adjustment to prevailing market conditions.

Competition:

No comparable qualities in the market.

EXPORT:

Total annual export: US \$ 9 million

Major products	To Western countries	To Eastern countries	To Developing countries
Varnishes	20%	80%	-
Thinners	20%	80%	-

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI./., has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967/68)

1. Energy and water

TOTAL:

	Quantity consumed Unit	Quantity Consumed	Amount import date (000 US \$)	Total consumption value (000 US \$)
- Electricity	000 kWh	1,172		60
- Coke	t	27.5		30
- Fuel oil: light, medium heavy	t	33		1
- Gas oil	t	616		2
- Water	000 m³	..		20

2. Production materials

TOTAL:

	t	Quantity consumed	Amount import date (000 US \$)	Total consumption value (000 US \$)
- Binding agents	t	9,200	25	225
- Pigments and fillers	t	3,300	70	161
- Solvents	t	6,300	50	30
- Others	t	1,200	49	51

3. Other materials & supplies

TOTAL:

	Total consumption value (000 US \$)
- Packaging material	690
- Parts, supplies & services	564
- Other materials & supplies	91

4. Business services purchased

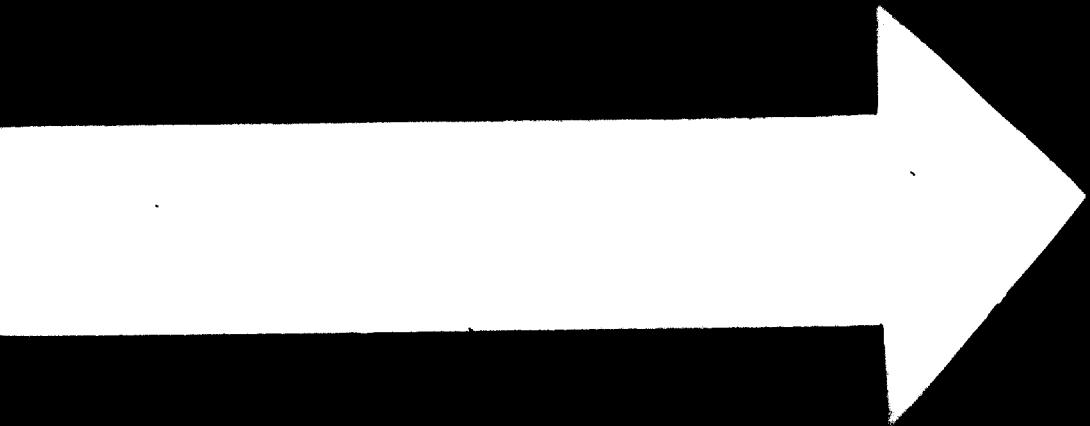
TOTAL:

	Total consumption value (000 US \$)
- Transportation, storage & insurance	295
- Communications, advertising & other business services	282

5. Work performed by subcontractors

TOTAL:

TOTAL VALUE OF CONSUMPTION: 8,456



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V. ANNUAL PRODUCTION

(1967)	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (000 US \$)
Products (or group of products)					
Battery cases	1950	t	3,333	458.2	1,527
Plastic foam	1964	t	2,650	1,078.4	2,858
Liners	1949	t	12.3	32,298.4	388
Synthetics	1950	t	45	4,504.7	203
Brake linings	1949	t	86	2,349.9	202
TOTAL VALUE OF PRODUCTION:				5,178	

VI. VALUE ADDED

(1967)	Total value (000 US \$)
1. Annual wages & salaries	1,229
- Operative workers (408 persons)	799
- Non-operative workers (70 persons)	430
2. Other payments for employees	288
3. Annual depreciation	514
- Machinery & equipment	
- Buildings & other facilities	
- Non-physical capital assets	
4. Rents paid	14
5. Interest & royalties	49
6. Sales tax	194
7. Other indirect business taxes	146
8. (-) Subsidies	(*)
9. Corporate income before tax	4
(*) Items 2.-8. see page 4/XII. Supplements	-
TOTAL VALUE ADDED:	2,586

DESCRIPTION OF MAJOR PRODUCTS:

Battery cases: high electric strength; plastic foam: homogeneous foamed plastic;brake linings: standard quality; all serial production; prompt delivery;synthetics: still in stage of development; production to order;liners: product meets highest requirements; single production; manufactured to order.

MARKET ASPECTS:

Consumers of products:

Electrical industry, furniture industry, automobile industry.

Sales organization:

See MIDDLE EUROPE : 300 - (1 a).

Sales area:

Plastic foam : Europe.

Share in the domestic market:

Battery cases and plastic foam 70% each.

Competition in the market:

Imported goods are frequently sold below market prices. Company meets foreign competition with higher quality of products and better service.

EXPORT:

Total annual export: US \$ 2,400,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Battery cases	90%	10%	-
Plastic foam	70%	30%	-

Export price policy:

Depending on market situation.

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity	% import	Average import duties	Total consumption value (000 US \$)
1. Energy and water TOTAL:					145
- Electricity	000 kWh	3,822	-	-	73
- Brown coal	t	5,691	-	-	57
- Water	000 m³	189	-	-	15
- Steam (*)	t	24	-	-	-
(*) Internally supplied.					
2. Production materials TOTAL:				2,257	
- Natural rubber	t	40	100	-	29
- Synthetic rubber	t	390	100	-	122
- Recycled rubber	t	671	-	-	65
- Textiles	t	50	10	10	127
- Chemicals, plastics	t	5,217	90	94	1,748
- Other materials	--	--	--	--	166

Total consumption value (000 US \$)	
3. Other materials & supplies TOTAL:	115
- Packaging, material	90
- Parts, supplies & services	24
- Other materials & supplies	1
4. Business services purchased TOTAL:	75
- Transportation, storage & insurance	
- Communication, advertising & other business services	75
5. Work performed by subcontractors TOTAL:	-
TOTAL VALUE OF CONSUMPTION:	2,592

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (II.1)	Number	Original Purchase Value (1000 US \$)	Replace- ment value (1000 US \$)	Av. Age Year	Remarks	Supplier country	Year of instal- lation	Daily running time
Mixing plants	2					Germany, F.R.	1955-1965	16-24 hrs
Plastic foam plants	3					Germany, F.R.	1965	16-24 hrs
Calenders	2					Germany, F.R.	1955-1958	16-24 hrs
Presses (heated)	54				No details available.	Austria	1955-1967	16-24 hrs
Vulcaniser	1					Germany, F.R.	1955-1968	16-24 hrs
Cutting machine	5					Germany, F.R.	1957-1962	16-24 hrs
Automatic spraying machine	1					Germany, F.R.	1955-1967	16-24 hrs
Flaking mills	2					Austria	1958-1968	16-24 hrs
Lathes	2							
Cranes	3							
Wagons	4							
Lifts	2							
Stacker trucks	3							
Drilling machines	5							

CAPACITY POWER:

Process equipment:
electric motors kW ~ 2,230Generating equipment:
installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		C. moderate standard		Further details	Automation:
		A. most advanced	B. considerably high standard	C. almost automated	D. appreciably short of today's standard		
Raw material processing dept.		C	III				I. fully automated
Battery case department		B	I				II. semi-automated
Synthetic department		C	III				
Linens department		B	III				
Single elements department		C	III				
Plastic foam department		A	I				
Plastic foam trimming department		B	II				
Brake linings department		C	II				

CAPACITY UTILIZATION:

Full-capacity output: US \$ 6,500,000.

Current utilization: based on 2- and 3-shift operation.

Major products (or processes)	up to 10 20 30 40 50 60 70 80 90 100										Approximate %
	to 10	20	30	40	50	60	70	80	90	100	
All departments are operating at 80-90% capacity.											

All departments are operating at 80-90% capacity.

IX. HISTORY & PLAN

1. Performance in the past: (*)

Year:	1963	1964	1965	1966	1967	1968
	..	74,536	80,457	85,101	89,900	96,750
		8,315	8,872	8,374	8,220	8,985
		20,627	23,297	24,458	31,773	38,700

(*) of the whole enterprise.

2. Investments in the past: Approximate amount (1000 US \$)

From 1956 to 1958:	360	Type of investment
" 1959 " 1964:	2,700	Expansion and rationalisation of product-mix, process equipment, production processes and primary operative shops.
" 1965 " 1967:	1,260	
in 1967:	260	

3. Future Plan:

From 1968 to 1970: 1,620 See IX.2. above.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these eisic groups are included in those underlined.

(1964)

Industry Manufacture of rubber products

(ISIC Code: 300-1)

1. Size groups by number of persons employed:	No. of estab.	No. of comp.	Av. W. &. S. per pers. (1000 US \$)	Av. gross prod. val./per pers. (1000 US \$)	Av. value added/gross prod. ratio (%)	2. Size groups by annual value of production (1000 US \$):		Av. W. &. S. per pers. (1000 US \$)	Av. gross prod. val./per pers. (1000 US \$)	Av. value added/gross prod. ratio (%)
						No. of estab.	No. of comp.			
up to 19	37	142	1,404	6,444	65	20	22	984	4,753	69
20 - 99	5	235	1,437	16,631	18	40	8	1,112	5,900	62
100 - 499	3	8,256	1,360	8,356	57	200	9	1,524	5,661	67
500 - 999	-	-	-	-	-	400	2	0	0	0
over 1,000	2	C	C	C	C	400	2	0	0	0
TOTAL:	47	8,663	1,142	9,027	55	2,000	4	8,462	1,854	55

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- 1. Engineering study
 - 2. Financial assistance
 - 3. Industrial services
 - 4. Equipment supply, installation & maintenance
 - 5. Technical and managerial personnel
 - 6. Industrial training
 - 7. Technical consultancy
 - 8. Import and export services
 - 9. Administration of foreign labour

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

See MIDDLE EUROPE : 300 - (1 a).

XII. SUPPLEMENTS & NOTES

Ad VI. VALUE ADDED:

Items VI.2.-8. do not correspond with reality but have been computed based on

- (a) the value added table given for the whole enterprise summarising all value items of the 4 establishments and
- (b) the given distribution of wages and salaries among those establishments.

Overall profits of this branch have been calculated as a residual still including a few unknown cost items.

Inventories policy:

On the average the value of the stock of finished products amounts to 9.3% of the total value of production.

Major Products:**Reporting Unit:**

Ammonium sulphate and single super phosphate (produces ammonia and sulphuric acid internally). Capable of producing annually 150,000 t ammonium sulphate and 118,000 t single super phosphate on 1-shift operation. The capacity for ammonia and sulphuric acid production is 22,000 t and 135,000 t, respectively.
Financially independent branch of a multi-industrial enterprise founded in 1943; public corporation; no participation of foreign capital. This branch was founded in 1949.

I. FIXED CAPITAL ASSETS

(End of 1966)	Year of installation	Orig. purchase value (1000 US \$)	Replacement value (1000 US \$)	
1. Primary process equipment				
TOTAL		5,307	**	
- Process equipment		5,251	**	
- Hand tools & apparatuses		56	**	
- Cost of installation (incl. in primary equipment)				
2. Primary industrial building		2,144	**	
TOTAL		2,144	**	
(total floor space: 10,400 m ²)				
3. Auxiliary facilities		1,554	**	
TOTAL				
- Water, steam, electricity, cooling & storing		1,240	**	
- Transportation facilities		113	**	
- Administrative facilities		163	**	
- Laboratory facilities				
TOTAL PHYSICAL FIXED CAPITAL ASSETS		1,554	**	
(including land):				
4. Other fixed capital assets		31	**	
TOTAL				
- Land (total acreage: 104,300 m ²)		64	**	
- Others		12	**	
DETAIL OF PROCESS EQUIPMENT (in):	Supplier country	Year of installation	Orig. purchase value (1000 US \$)	Replacement value (1000 US \$)
Ammonium equipment			1,329.7	
Sulphuric acid equipment		60	661.1	
Ammonium sulphate equipment	USA	in 1951	698.7	**
Super phosphate equipment			1,041.8	
Other equipment			1,175.9	

HISTORY OF INVESTMENT:

The construction of the factory started in 1949. The first trial as well as commercial production started in 1951. The following investments were made for expansion purposes: (in 1000 US \$)

1953 approx.	168	for single super phosphate plant
1958 "	187	" sulphuric plant
1964 "	267	" gas purification plant
1955 "	136	" crystallization of ammonium sulphate
1967 "	174	" mixing equipment

THE PARENT ENTERPRISE:

The parent enterprise has altogether 6 branches and a headquarters. The other 5 branches are functionally not related to this branch. The total employment of the parent company is a little over 2,000, of which the headquarters has 230 employees (annual operating costs some US \$ 1.1 million).

CAPACITY POWER:

Process equipment:

- Electric motors: 3,742 kW
- Other prime movers 5,000 "

Generating equipment:

Installed capacity - kVA

EXTERNAL CONDITIONS:

Transport: Long distance, excellent; local area, fair.

Utilities: Electricity and water internally supplied; gas, excellent.

Community: Residential, health and recreational, educational, fair.

II. INVENTORIES AND WORKING CAPITAL

(in 1000 US \$)

(End of 1966)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL:			
- Production materials	250	- Cash (hand/bank)	290
- Other input materials	1,095	- Market. sec. & bonds	75
- Work-in-process	-	- Short-term investment	2,728
- Finished products	129	- Prepaid expenses	246
		- Accounts receivable	2,556

3. Desired working capital

Number of months Value

7,472

TOTAL

248

- Production materials

12 1,096

- Other input materials

128

- Finished products

6,000

(*) see below.

(* see below.)

A = Machine operators

B = Other operators

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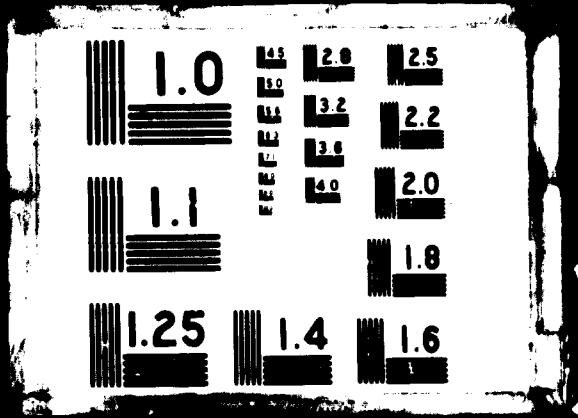
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MIDDLE EUROPE : 313 - (1)

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (S.I.)	Number	Original Purchase Value US \$	Replace- ment value US \$	Av. Age (yr)	Remarks:	Supplier country	Daily running time	Capacity output
Roller grinders	16	..	..	..	Ob	Germ., D.R.	12 hrs.	1,200 t/month
Sand mills	6	..	..	3	..	Germ., F.R., Belgium	12 "	"
Mixers	8	..	..	3	..	Belgium, USA Germ., F.R.	12 "	"
Ball mills	4	..	..	3	..	Germ., F.R.	24 "	"
Containers (20 t)	20	..	..	..	..
Containers (5-10 t)	25	..	..	..	..
Scales	20	..	..	..	..
Machines for washing packagings	4	..	..	..	..
Pumps	30	..	..	..	..

CAPACITY POWER:

Process equipment:

- electric motors kW 1,681

Generating equipment:

- installed capacity kVA -

Major primary operative shops	Kind of process involved	Mechanization:	C: moderate standard		Automation:	I: fully automated	II: semi-automated
			A: most advanced	B: considerably high standard			
Cooking		C	III				
Grinding		C	III				
Mixing		C	III				
Conditioning		C	III				
Completing		C	III				
Shading		C	III				
Filling		B	III				

CAPACITY UTILIZATION:

Full-capacity output: US \$ 20 million, based on 1-shift operation, except for a few departments which will have to operate on 3 shifts (e.g. grinding department)

Current utilization:

Major products for processing	up to 30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
	Approximate %							

All products

The low rate of capacity utilization of 60 - 70% is due to lack of demand.

Requirements for reaching full-capacity utilization:

additional capital: approx. US \$ 950,000.

additional labour: 1 non-operative and 10 operatives on 2nd and 3rd shifts, each.

IX. HISTORY & PLAN

1. Performance in the past:	Total output	No. of persons employed	Total exports
	(US \$ 000)		(US \$ 000)
Year: 1963/4	5,750	320	2,200
1964/5	7,660	359	3,410
1965/6	9,290	433	5,150
1966/7	12,000	451	7,260
1967/8	13,930	460	9,170
1968/9	- 15,480	- 445	- 10,840

2. Investments in the past:	Approximate amount	Type of investment
	(US \$ 000)	
From 1957 to 1960 :	434	Machinery and primary industrial buildings
" 1961 " 1963 :	491	Machinery and Laboratories
" 1964 " 1967 :	1,780	Machinery, warehouses and factory buildings
1967/68 :	400	

3. Future Plan:	From 1968 to 1971 :	Type of investment	
	968	Expansion, rationalisation, specialisation of product-mix, machine-pool, processing methods and factory premises.	
		No additional operatives required.	

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C - Confidential; figures of this size group are included in those underlined.

(1964) Paints and varnishes manufacturing (ISIC Code: 313)

Industry	No. of establishments	No. of employees	Av. W. &. S. per pers. (US \$)	Av. gross prod. val/ per pers. (US \$)	Av. value added/gross prod. ratio (%)	2. Size groups by annual value of production (US \$ 000):		Av. W. &. S. per pers. (US \$)	Av. gross prod. val/ per pers. (US \$)	Av. value added/gross prod. ratio (%)	
						No. of establis. up to	No. of establis. 20 -	No. of establis. 100 -	No. of establis. 500 -	No. of establis. over	
Paints and varnishes manufacturing	56	347	1,719	13,390	42	20	18	12	609	14,822	44
	29	1,184	2,047	11,649	45	40	8	17	1,400	13,661	48
	10	1,489	2,221	14,629	45	200	23	251	1,606	9,598	45
	-	-	-	-	-	400	18	477	1,840	9,869	45
	-	-	-	-	-	2,000	24	2,263	2,216	14,474	44
	-	-	-	-	-	over 2,000	4 ↑	0	0	0	0
TOTAL:	95	3,020	2,095	13,313	45	TOTAL:	95	3,020	2,095	13,313	45

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services:		
1. Engineering study	5. Technical and managerial personnel	8. Import and export transaction
2. Financial assistance	6. Industrial training	9. Admission of foreign labour
3. Industrial services	7. Technical consultancy	
4. Equipment supply, installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

XII. SUPPLEMENTS & NOTES

Depreciation policy:

The following depreciation rates were applied: Machinery 10%, buildings 10%, office furniture 20%.

Governmental policies:

Import of similar foreign products, customs duty on raw materials and high rate of interest on bank loans affect the profitability of the enterprise.

Labour training:

Training courses are organised together with a national industrial management institute; no foreign lecturers are needed.

Working capital:

Liquid assets (average)	(000 US \$)	Required working capital	(000 US \$)	Equivalent number of men
- Cash on hand and in bank	20	- Production materials	548	4
- Marketable securities and bonds	-	- Other materials and supplies	56	2
- Accounts receivable from delivery of goods and services	436	- Finished products and work-in-process	232	1
- Other accounts receivable	132	- Wages for primary operative workers	17	2
- Prepaid expenses	92	- Other wages and salaries	9	2
Total liquid assets (average)	680	- Training costs	0.3	2
		- Administrative costs, sales costs and contingencies	20	2
		- Other special items	10	1
		Total desired working capital	893	-

Major Products: Pharmaceuticals.

Capable of producing about 1 million litre of medicinal liquids and ointments and 600 million tablets, 60 million ampoules, etc., based on one-shift operation. Full-capacity output is said to amount to nearly US \$ 8 million.

Reporting Unit: A one-establishment enterprise, privately owned; founded in 1959. No foreign capital participation. Construction of the factory started in 1959, trial and commercial production in 1961. In 1965 the break-even point was surpassed for the first time at an output of US \$ 1,760,000. No exports.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value 1968 US \$	Replace- ment value 1968 US \$	Ave. life (Yrs.)
1. Primary process equipment (including installation cost)	1,043	..	..
TOTAL:	898	..	5
- Process equipment *	145	..	..
- Hand tools & apparatuses	..	..	..
2. Buildings	4,120	..	12
TOTAL:	3,750	..	12
- Primary industrial buildings (total floor space: .. m ²)	..	..	..
- Auxiliary buildings	..	..	..
- Warehouses	..	..	..
- Office administration buildings	..	..	..
- Housing	370	..	12
3. Auxiliary facilities (excl. buildings)	217	..	..
TOTAL:	119	..	..
- Internal power equipment	..	..	..
- Laboratory facilities	26	..	..
- Means of transportation	26	..	..
- Office equipment	46	..	..
TOTAL PHYSICAL FIXED ASSETS (excluding land):	5,380	..	
4. Other fixed capital assets	4,714	..	..
TOTAL:	4,714	..	..
- Land (total acreage: 50,000 m ²)	..	..	..
- Land improvements	..	..	..
- Others	..	..	..

II. MONTHLY GROSS WAGES AND SALARIES

(Number of personnel)

(1968 monthly average)

	US\$	US\$	US\$	US\$	US\$	US\$
1. Local non-operatives	660	-	1,055			
- Managers	-	-	595			
- Engineers	-	-	-			
- Technicians	-	-	200			
- Accountants	160	-	-			
- Sales officers	-	-	-			
- Clerks and typists	90	-	130			
2. Local operatives	105	-	185			
- Supervisors |						
- Foremen	-	-	-			
- Skilled operatives	-	-	-			
- Machine operators	..	-	..			
- Craftsmen	53	-	80			
- Truck drivers	65	-	90			
- Unskilled operatives	53	-	65			
- Other full-time operatives	40	-	60			
- Part-time operatives	-	-	-			
3. Foreign employees	660	-	790			
- Managerial staff	-	-	-			
- Technical staff	-	-	-			
- Other skilled operatives	-	-	-			
- Unskilled operatives	-	-	-			

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance: fair
	internal long distance: fair
	local and city: fair
Utilities:	electricity: excellent
	water: excellent
	gas: excellent
Community:	residence: fair
	health and recreation: excellent
	education: excellent
Own Welfare Facilities:	-

III. INVENTORIES

(End of 1968)

	Actual value 1968 US \$	Number of months
Inventories	1,357	
TOTAL:	805	..
- Production materials	13	..
- Other input materials	156	..
- Work-in-process	383	..
(See XII. for liquid assets and desired working capital)		

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	Total hours
- Shift hours/day:	8	-	-	hours
- Actual hours/year:	2,368	-	-	days
- Normal days/year:	250	-	-	

IV. MANNING TABLE

(Number of personnel)

Skills required: A) Supervisory staff and foremen (for all shifts)
B) Machine operators
(C) Other operatives
(D)

(1968 average)

	Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
ALL SHOPS & UNITS:	348	72	269	-	-	-	-	-
1. Primary operative shops	197	6	36	155	-	-	-	-
- Total primary operations	197	6	36	155	-	-	-	-
2. Auxiliary operative units	85	7	24	-	-	-	-	-
- Repair & maintenance	25	1	-	-	-	-	-	-
- Mechanical shop	-	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-	-
- Utilities control	22	2	20	-	-	-	-	-
- Product & material storage	8	3	5	-	-	-	-	-
- Off-site transport	4	-	4	-	-	-	-	-
- Guards, cleaners, etc.	26	1	25	-	-	-	-	-
3. Auxiliary non-operative units	66	66	-	-	-	-	-	-
- Production management	36	36	-	-	-	-	-	-
- Research & development	-	-	-	-	-	-	-	-
- Sales unit	-	-	-	-	-	-	-	-
- Accounting	14	14	-	-	-	-	-	-
- General administration	16	16	-	-	-	-	-	-

V. ANNUAL PRODUCTION

(1968)		Yr. of first prod.	Quantity produced Unit	Quantity	Av. unit price on factory (US \$)	Total output value (1000 US \$)
Products (or group of products)						
Liquids	1961	1	200,000	3.0-3.3	638	
Ointments	1961	1	20,000	13.2-18.5	257	
Tablets	1961	pos.	300 mill.	0.003-0.005	1,276	
Ampullas	1961	pos.	40 mill.	0.003-0.005	171	
Transfusion solutions	1961	pos.	350,000	0.30-0.33	110	
TOTAL VALUE OF PRODUCTION:						2,552

VI. VALUE ADDED

(1968)		Total value (1000 US \$)
1. Annual wages & salaries		161
- Operative workers (282 persons)	97	
- Non-operative workers (66 persons)	71	
2. Other payments for employers		18
3. Annual depreciation:		122
- Machinery & equipment	102	
- Buildings & other facilities	211	
Non-physical capital assets	9	
4. Rentals paid		-
5. Interest & royalties		132
6. Sales tax		-
7. Other indirect business taxes		-
8. () Subsidies		-
9. Corporate income before tax		650
TOTAL VALUE ADDED:		1,310

DESCRIPTION OF MAJOR PRODUCTS:

B o d e t s i l e s a v e l l e b l e .

MARKET ASPECTS:

Sales organization: The enterprise has its own sales department.Share in the domestic market: 10%.Competition with other products: Good competitive position in the local market.

EXPORT:

Total annual export: None.

Major products	To Western countries	To Eastern countries	To Developing countries

Prospects of exports and export price policy:

Prices will have to be reduced to be able to compete with foreign products; generally good prospects of exports. The enterprise management reports that the current prices are yet too high for export purposes due to the relatively low capacity utilization.

VII. ANNUAL CONSUMPTION

(1968)		Quantity consumed Unit	Quantity	X import	Average import duties	Total consumption value (1000 US \$)	Total consumption value (1000 US \$)
1.	2.						
1. Energy and water							
TOTAL:						14	
- Electricity	000 kWh	1,100	-	-		11	
- Liquid fuels and lubricants	000 l	1,800	-	-		16	
- Gas	000 m3	17	-	-		1	
2. Production materials						1,122	
TOTAL:						1,122	
- 400 different chemicals	..	..	94	..		1,122	
3. Other materials & supplies							59
TOTAL:							59
- Packaging material (bottles, boxes, etc.)							13
- Parts, supplies & services							20
- Other materials & supplies							26
4. Business services purchased							27
TOTAL:							27
- Transportation, storage & insurance							26
- Communication, advertising & other business services							0.5
5. Work performed by subcontractors							-
TOTAL:							-
TOTAL VALUE OF CONSUMPTION:						1,262	

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1.)

Number	Original Purchase Value (\$100 US \$)	Replace- ment value (\$100 US \$)	Ave. Age (yrs)	Remarks	Further details
--------	--	--	----------------------	---------	-----------------

The main part of the process equipment meets the modern standard; the replacement value (if newly re-purchased) is around 80.9 million in total.

Remarks:
 30: Purchased second-hand
 31: Obsolete
 32: Renewed
 33: Self-constructed

CAPACITY POWER:
 Process equipment:
 electric motors = kW
 Generating equipment:
 installed capacity = kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Moderization:	C. machine standard:	Automation:
		A. most advanced	B. approximately std. of industry's standard	I. fully automated
			C. almost obsoleted	II. semi-automated
All shops			B	II

CAPACITY UTILIZATION:
 Full-capacity output: US \$ 7,900,000.

Current utilization:

Major products for processing	Approximate %									
	0	20	40	60	80	100	120	140	160	180
Liquids	25									
Ointments	13									
Tablets		50								
Ampullae			67							
Transfusion solutions				44						

The actual over-all capacity utilization rate is considered to be about 35%. The low utilization is due to lack of demand for domestic medicines; foreign brands are still being preferred to domestic brands. It is expected that the demand will increase.

IX. HISTORY & PLAN

Total output (\$100 US \$)	No. of persons employed	Total exports (\$100 US \$)
750	260	-
1,630	248	-
1,760	267	-
1,590 *)	255	-
1,480 *)	249	-
2,550	348	-

*) The increase in quantity was accompanied by more than proportional decrease in unit price.

2. Investments in the past:

From 19	To 19	Type of investment
19	19	-

3. Future Plan:

From 19 68 to 19 73: 1,390 Replacement of and additions to process equipment and other primary production facilities; new additions also to auxiliary production facilities; technological improvement of other primary production facilities; these investments will be accompanied by new recruitment of 20 primary and 7 auxiliary operatives, as well as 1 man-year for management and administration.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

* Selected 23 establishments representing only part of this industry.

(1967) Manufacture of miscellaneous chemical
Industry (SIC-Code: 319*)

1. Size groups by number of persons employed	No. of estab.	No. of empl.	Ave. W. & S. per pers. (\$100 US \$)	Ave. gross prod. val/ per pers. (\$100 US \$)	Ave. value stocks/gross prod. ratio (%)	Capital assets per pers. (\$100 US \$)
up to 20	9	106	857	11,330	47	1,662
21 - 50	6	197	469	5,167	59	8,027
over 50	8	1,422	1,000	10,378	39	7,665
TOTAL:	23	1,725	930	9,841	41	7,351

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of service:
- | | | |
|---|---------------------------------------|-------------------------|
| 1. Engineering studies | 3. Technical and managerial personnel | 5. Import and export |
| 2. Financial assistance | 4. Industrial training | 6. Management |
| 3. Industrial services | 7. Technical consultancy | 8. Admission of foreign |
| 4. Equipment supply, installation & maintenance | | 9. Labour |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of service	Country or region	No. of projects	Field of industry	Description of projects

XII. SUPPLEMENTS & NOTES

Average liquid assets:	(000 US \$)
Cash on hand and in bank	19
Accounts receivable from delivery of goods and services	105
Total	204

Required working capital:	(000 US \$)	Equivalent number of months
Production materials	92	1
Other materials and supplies	1	1
Finished products and work-in-process	145	1
Wages for primary operative workers	7	1
Other wages and salaries	8	1
Administrative and sales costs and contingencies	2	1
Total	255	1

Depreciation policy: Machinery 10%
Building 8%
Office furniture 20%.

Governmental policies:

There are indications that the current Government policy in this field of industry is highly protective (despite the high rate of profit?).

Labour training:

At present there is an on-job training programme in operation.

Major Products: Soap, detergents and glycerine. Capable of producing annually 15,000 t of soap on 1-shift operation; 42,000 t of detergents on 2-shift operation.

Reporting Unit: A one-establishment enterprise originally founded in 1934 and renovated and expanded in early 1960's. Private corporation; no participation of foreign capital.

I. FIXED CAPITAL ASSETS

	Year of installa- tion	Orig. pur- chase value (000 US \$)	Replacement value (000 US \$)
(End of 1966)			
1. Primary process equipment			
TOTAL		3,424	8,660
- Process equipment		3,104	8,197
- Hand tools & apparatuses		-	-
- Cost of installation		Included above	Included above
2. Primary industrial building		611	611
TOTAL		611	611
(total floor space: 11,000 m ²)		611	611
3. Auxiliary facilities		68	68
TOTAL		68	68
- Water, steam, electricity, cooling & storing		24	24
- Transportation facilities		1	1
- Administrative facilities		1	1
- Laboratory facilities		1	1
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land)		3,501	9,331
4. Other fixed capital assets		120	120
TOTAL		120	120
- Land (total acreage: 11,000 m ²)		120	120

DETAIL OF PROCESS EQUIPMENT (inc.)

	Supplier country	Year of installa- tion	Orig. pur- chase value (000 US \$)	Replacement value (000 US \$)
- Washing soap department		1,151	most items 2 to 3 times higher than the original purchase values	
- Toilet soap department	Italy, UK, USA, and West Germ.	264		
- Detergents department		1,083		
- Glycerines department		86		
- Mechanical shops and laboratory		12		
- Other equipment		168		

HISTORY OF INVESTMENT:

Construction of the factory started in 1934. The first trial as well as commercial production started in 1934.

The following investments have been made since 1951:

Investment period	Approx. amount invested (US \$ 000)	Main purposes
1945-1950	92	Continuous soap making process
1951-1955	457	Expansion of soap department
1956-1960	888	Starting detergents production
1961-1966	3,653	Expansion of soap, detergents and glycerine production

CAPACITY POWER:

Process equipment	Generating equipment	
Electric motors: 1,418 kW	Installed capacity - kVA	

EXTERNAL CONDITIONS:

Transport: Long distances, fair; local area, own vehicle operation.

Utilities: Electricity, excellent; water, gas, fair.

Community: Residential, health and recreational, educational, all fair.

II. INVENTORIES AND WORKING CAPITAL

(In 000 US \$)

(End of 1966)

1 Inventories	Actual value	2 Liquid assets	Actual value
TOTAL	1,816	TOTAL	4,816
- Production materials	672	- Cash (hand/bank)	1,912
- Other input materials	-	- Market, sec. & bonds	200
- Work-in-process	681	- Short-term investment	-
- Finished products	713	- Prepaid expenses	1,176
		- Accounts receivable	1,528

3. Desired working capital

Number of months	Value
TOTAL	4,592

III. MANNING TABLE

(Number of persons)

(1966 average)

Total	1st shift A	2nd shift B	3rd shift A+B
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Total	726	650	68
-------	-----	-----	----

ALL SHOPS & UNITS:	279	213	63
--------------------	-----	-----	----

1 Primary operative shops	279	213	63
---------------------------	-----	-----	----

- Washing soap	46	46	-
- Detergents	126	126	60
- Toilet soap	38	38	-
- Glycerine	9	3	3

2. Auxiliary operative units	195	185	5
------------------------------	-----	-----	---

- Repair and maintenance	50	50	-
- Mechanical shop	11	11	-
- Utilities control	7	7	-
- Product & material storage	70	70	-
- Off-sites transport	16	6	5
- Guards, cleaners, etc.	41	41	-

3. Auxiliary non-operative units	252	252	-
----------------------------------	-----	-----	---

- Production management	7	7	-
- Research & development	-	-	-
- Sales unit	52	52	-
- General administration	150	150	-
- Others	43	43	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day: 8 hours Normal days/year: 298 days

Actual hours/year: 2,384 hours

CAPACITY OF OPERATIVE SHOPS:

High automation and mechanisation.

The capacities of different shops are mutually balanced.

IV. ANNUAL PRODUCTION

(1966)	Yr. of first prod.	Quantity produced		(*) Nominal capacity output	Unit price ex factory (US \$)	Total production value 000 US \$
Products (or group of products)		Unit	Output			
- Washing soap	1934	t	13,988	14,000	265	3,620
- Toilet soap	1956	"	1,025	1,200	618	630
- Detergents	1957	"	31,284	40,000	316	11,750
- Glycerine	1949	"	814	600	121	98
						TOTAL VALUE OF PRODUCTION
						16,448

*) Based on the same number of shifts as the actual 300 days yr. operation. Soap with one shift; detergent two shifts and glycerine three shifts.

EXPORTS: None.

CAPACITY UTILIZATION: Satisfactory.

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed			Total consumption value 000 US \$	
	Unit	Purchase	% Imported	Tariff rate	
1. Energy and water					137
TOTAL					
- Electricity	000 Kwh	..			79
- Gas		..			68
2. Production materials					12,275
TOTAL					
- Fats	t	3,153			1,073
- Oils	t	5,105			1,964
- Tar	t	1,530			254
- Sulphate, phosphates Oleum	t	29,364			3,070
- Dodacilbensins	t	7,475			2,252
- Others	t	..			3,632

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group: Manufacture of miscellaneous chemical products (ISIC: 319.)

1. Size groups by number of persons employed	Number of estab.	Number of emp.	Am. US \$.	Am. gen. prod. val. US \$	Am. exp. gen prod. ratio (%)
			per estab.	US \$	
up to 5	476	1,555	658	8,661	65
6 - 15	450	4,302	1,073	7,565	71
16 - 25	222	4,458	1,295	10,868	72
26 - 100	435	22,157	1,386	8,853	79
over 100	175	47,208	2,045	11,170	71
TOTAL	1,760	79,680	1,740	10,265	73

2. Size groups by value of annual production 000 US \$:	Number of estab.	Number of emp.	Am. US \$.	Am. gen. prod. val. US \$	Am. exp. gen prod. ratio (%)
up to 8	508	1,322	183	1,239	74
8 - 40	466	3,375	573	2,891	94
40 - 120	336	5,423	992	4,554	79
120 - 240	231	7,175	1,127	559	86
240 - 400	153	6,201	1,310	7,636	71
over 400	356	56,739	2,023	12,291	72
TOTAL	2,064	80,235	1,728	5,387	80

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1966)	Value 000 US \$
1. Wages & salaries	504
- Employees in direct production (111 persons)	504
- Other employees (211 persons)	443
2. Other payments for employees	366
3. Annual depreciation	311
4. Rentals paid	2
5. Interest & royalties	1
6. Sales tax (not included in 1-5)	1
7. Other ind. bus. taxes	1
8. (1) Subsidies	12,100
9. Corporate income before tax	1,495
	16,694

VII. MONTHLY EARNING RATES

(End of 1966)	No. of persons empl.	Average earning per month US \$
1. Local non-operatives		
TOTAL	13	335
- Managers	1	1,171
- Engineers	1	490
- Technicians	1	293
- Accountants	1	490
- Sales officers	1	636
- Other professional staff	1	—
- Clerks & typists	13	17
2. Local operatives		
TOTAL	1,134	131
- Supervisors	1	—
- Foremen	1	—
- Machine operators	1	—
- Craftsmen	13	200
- Truck drivers	1	176
- Other full-time operatives	1,123	126
- Unskilled & part-time operatives	1	—
3. Foreign employees		
TOTAL	—	—

IX. SUPPLEMENTS

Total consumption value 000 US \$
1,432
3. Other materials & supplies
TOTAL
1,051
- Packagings
- Repair & maintenance
- Non-factor service inputs
4. Business services purchased
TOTAL
212
- Transport, storage & insurance
- Communication, advertisements, etc.
5. Work performed by sub-contractors
TOTAL
—
13,998
13,998

Future plan:

Within the period from 1985-1990, approx. US \$ 2,400,000 will be invested for general expansion of the factory.

Government policies:

Ceiling on selling price of washing soap, but no ceilings on purchase prices for production materials. This affects the availability of input materials. Abolition of price ceilings is desired.

Major Products:

Human and veterinary medical preparations (antibiotics and other materials). Capable of producing annually 1,700,000 pieces (packs) on 1-shift operation.

Reporting Unit:

A one-establishment enterprise, founded in 1937; privately owned; no participation of foreign capital.

I. FIXED CAPITAL ASSETS

(End of 1966)

1. Primary process equipment

TOTAL

- Process equipment
- Hand tools & apparatuses
- Cost of installation

Year of installation	Orig. purchase value (1000 US \$)	Replacement value (1000 US \$)
175,5		350
111,5		250
60,0		100

2. Primary industrial building

TOTAL(total floor space: 11,000 m²)

56,0	112
------	-----

3. Auxiliary facilities

TOTAL

- Water, steam, electricity, cooling & storing
- Transportation facilities
- Administrative facilities
- Laboratory facilities

16,1	
7,0	
6,4	
9,1	

TOTAL PHYSICAL FIXED CAPITAL ASSETS
(including land)

172,1	
-------	--

4. Other fixed capital assets

TOTAL- Land (total acreage: 4,000 m²)

Supplier country	Year of installation	Orig. purchase value (1000 US \$)	Replacement value (1000 US \$)
F.R.Germ.			
France			
Spain			
Mexico			

- Liophilization equipment	1955
- Sterile filling equipment	1955
- Granular and tablets department	1955
- Incubation department	1955
- Refrigeration "	1955
- Cleaning and sterilization dept.	1955
- Other equipment	1955

HISTORY OF INVESTMENT:

Construction of the factory started in 1939. The first trials were made in 1940. Commercial production started in 1947, when the first products were made. In 1949, approximately US \$ 1,000,000 were invested for the construction of a new plant. In 1952 approx. US \$ 500,000 were invested for the expansion of machinery and equipment and from 1953 to 1966, approx. US \$ 1,000,000 were invested for the renovation of machinery and equipment.

CAPACITY POWER:

Process equipment
Electric motors

Generating equipment
Installed capacity

EVA

EXTERNAL CONDITIONS:

Transport: Long distance and local area, rail

Utilities: Electricity, fair.

Community: Residential, health and social, fair; educational, excellent.

II. INVENTORIES AND WORKING CAPITAL

In 1000 US \$

(End of 1966)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL	120,3	TOTAL	257,1
- Production materials	70,9	- Cash (hand/bank)	1,7
- Other input materials	24,0	- Market, sec. & bonds	-
- Work-in-process	2,9	- Short-term investment	-
- Finished products	17,6	- Prepaid expenses	.6
		- Accounts receivable	254,8

3. Desired working capital

Number of months
Total

- Production materials
- Other input materials
- Finished products
- Wages & salaries
- Other special items

III. MANNING TABLE

(Number of persons)

(1966 average)

Total	1st shift	2nd shift	3rd shift
-------	-----------	-----------	-----------

ALL SHOPS & UNITS:

108	108	108	108
1. Primary operative shops	51	51	51

- Production
- Packing
- Office workers

2. Auxiliary operative units

9	9	9	9
- Repair and maintenance	2	2	2
- Mechanical shop	-	-	-
- Utilities control	-	-	-
- Product & material storage	3	3	3
- Off-site transport	2	2	2
- Guards, cleaners, etc.	2	2	2

3. Auxiliary non-operative units

48	48	48	48
- Production management	6	6	6
- Research & development	-	-	-
- Sales unit	10	10	10
- General administration	27	27	27
- Others (Directors)	5	5	5

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day	8	hours	Normal days/year	245	days
Actual hours/year	1,960	hours			

CAPACITY OF OPERATIVE SHOPS:

The capacity of the liophilization and control department is 1,700,000 pieces. It is moderately automated. Part of the liophilization is performed for a contractor on commission basis. Minor jobs (packing tablets) are performed by a subcontractor.

IV. ANNUAL PRODUCTION

(1966)	Yr. of first prod.	Quantity produced (average)	Nominal capacity output	Unit price on factory (US \$)	Total production value 1966 US \$
- Human medical preparations	1939	pieces 1,000,000	1,50,000	0.6	600
- Veterinary medical preparations	1942	" 100,000	155,000	0.6	60
- Revenue from commission work (liophilization)				40	40
TOTAL VALUE OF PRODUCTION:					700

* Based on a one-shift operation and 245 working days per year.

EXPORTS: None

CAPACITY UTILIZATION:

The liophilization capacity is utilized 65%. Additional 5% utilization for the commission work. Under utilization is mainly due to lack of demand. 10% additional man-hour (1st shift) would be required for full utilization of the installed capacity.

V. ANNUAL CONSUMPTION

(1966)	Unit	Quantity consumed	% Imported	Total value 1966 US \$
1. Energy and water				
TOTAL				4.6
- Electricity	..			2.8
- Liquid fuels and lubricants (petrol etc.)	..			1.8

2. Production materials

1966	Unit	Quantity consumed	% Imported	Total value 1966 US \$
TOTAL				255.1
- Laboratory and production animals	..			62.7
- Basic antibiotics	..	100		20.0
- Pharmaceutical intermediates	..	50		12.0
- Other materials (including bottles and containers)	..			160.6

3. Other materials & supplies**VI. VALUE ADDED**

(1966)	Value 1966 US \$
1. Wages & salaries	
- Employees in direct production (60 persons)	38,9
- Other employees (48 persons)	203,3
2. Other payments for employees	19,4
3. Annual depreciation	20,1
4. Rentals paid	1,9
5. Interest & royalties	1,8
6. Sales tax	1,9
7. Other ind. bus. taxes	1,0
8. (-) Subsidies (*)	(1,9)
9. Corporate income before tax	101,0
	356,2

(*) See note under IX. Supplements.

VII. MONTHLY EARNING RATES

(End of 1966)	No. of per. empl	Avg. earning min. US \$
1. Local non-operatives		
TOTAL	49	34
- Managers	6	640
- Engineers (chemical, factory)	6	640
- Technicians	1	-
- Accountants	1	380
- Sales officers	10	430
- Other professional staff	2	-
- Clerks & typists	34	130
2. Local operatives		
TOTAL	60	61
- Supervisors	1	-
- Foremen	1	160
- Machine operators	1	96
- Craftsmen	1	-
- Truck drivers	1	110
- Other full-time operatives	1	-
- Unskilled & part-time operatives	58	30
3. Foreign employees		
TOTAL	2	-

1966	Total consumption value 1966 US \$
3. Other materials & supplies	62,2
TOTAL	62,2
- Packaging (for shipping)	4,0
- Repair & maintenance	9,8
- Non-factor service inputs	48,7
4. Business services purchased	
TOTAL	19,6
- Transport, storage & insurance	9,1
- Communication, advertisements, etc.	9,9
5. Work performed by sub-contractors	
TOTAL	7,4
	343,8

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965) Industry group: Manufacture of miscellaneous chemical products (IMC: 319)

1. No. groups by number of persons employed	Number of persons employed	Number of firms	Avg. no. per firm	Avg. per firm 1965 US \$	Avg. per firm 1966 US \$
Up to 5	478	1,555	65	8,661	65
6- 15	450	4,302	1,071	7,565	71
16- 25	222	4,458	1,295	10,860	72
26- 100	435	22,157	1,986	8,853	79
over 100	175	47,208	2,045	11,170	71
TOTAL	1,760	79,680	1,740	10,265	73
2. No. groups by value of annual production 1965 US \$					
Up to 8	508	1,322	181	1,239	74
8- 40	466	3,375	573	2,891	94
40- 120	336	5,423	992	4,554	79
120- 240	231	7,175	1,127	599	86
240- 400	153	6,201	1,310	7,636	71
over 400	356	56,739	2,083	12,291	72
TOTAL	2,064	80,235	1,720	5,387	80

* Output is defined as planned output.

IX. SUPPLEMENTS**Subsidies**

All pharmaceutical laboratories received only 1% subsidies on sales proceeds, in 1966, while the rate was 10% for some other industries.

COMMISSION WORK:

Commissions (for liophilization) amounting to US \$ 40,000 are received annually in accordance with the quotation for each allotment. There is a sub-contractor to which US \$ 2,400 are paid annually for packing of tablets.

FUTURE PLANS:

From 1967 to 1972, approximately \$160,000 will be invested for the renovation of equipment and the introduction of new products. 10% additional man-hours (on the 1st shift) will then be required.

GOVERNMENT POLICIES:

Since 1968, taxes on sales proceeds have been doubled and subsidies been cancelled. Granting of a 6 months' credit for the Social Insurance and for the customers in general is desired.

Major Products:

Wax matches, friction matches. Capable of producing annually 750,000 gross boxes and 270,000 gross booklets on 1 shift operation.

Reporting Unit:

An old enterprise originally founded in 1884 but reconstructed and expanded after 1951. Private corporation with domestic capital.

I. FIXED CAPITAL ASSETS				II. INVENTORIES AND WORKING CAPITAL (in 1,000 US \$)					
(End of 1966)				(End of 1966)					
1 Primary process equipment	Year of installation	Orig. purchase value (1,000 US \$)	Replacement value (1,000 US \$)	1 Inventories	Actual value	2 Liquid assets	Actual value		
TOTAL	1951-66	1,411	1,416	TOTAL	1,656	TOTAL	1,046		
- Process equipment		1,163	1,146	- Production materials	447	- Cash (hand/bank)	381		
- Hand tools & apparatuses		16	16	- Other input materials	10	- Market. sec. & bonds	0		
- Cost of installation		(Included in equipment value)		- Work-in-process	66	- Short-term investment	1		
2 Primary industrial building				- Finished products	1,009	- Prepaid expenses	106		
TOTAL						- Accounts receivable	49		
(total floor space: rented m ²)				3 Desired working capital	Number of months	Value			
3 Auxiliary facilities				TOTAL					
TOTAL				- Production materials					
- Water, steam, electricity, cooling & storing	installed	163	164	- Other input materials					
- Transportation facilities	between	1	1	- Finished products					
- Administrative facilities	1951-66	6	6	- Wages & salaries					
- Laboratory facilities				- Other special items					
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excluding land)		1,411	1,416	III. MANNING TABLE (number of persons)					
4 Other fixed capital assets				(1966 average)	1st shift	2nd shift	3rd shift		
TOTAL				Total	A	B	A+B		
- Land (total acreage: rented m ²)				ALL SHOPS & UNITS:	302	302	—		
DETAIL OF PROCESS EQUIPMENT (in k)	Supplier country	Year of installation	Orig. purchase value (1,000 US \$)	1. Primary operative shops	188	114	74		
- Equipment for wax match preparation	Mexico	1951-66	1,163	Max matches	48	23	15		
- Equipment for box making	"	"	80	- Packaged	47	29	18		
- " " packaging	"	1951-66	9	- Packing	64	46	18		
- " " booklet making	U.S.A.	1951-66	117	- Booklets making	12	8	4		
- Maintenance equipment	various	1951-66	1	- Turnery	6	5			
- Carpentry	"	1951-66	17	- Material transport	1		1		
- Other equipment	Mexico U.S.A.	1951-66	163						
HISTORY OF INVESTMENT:									
In 1910, 1922 and 1951, major investments took place, for expansion of production and for rebuilding the new factory. Between 1952 and 1966, approximately U.S. \$1.0 million were invested for renovation with increased mechanization. The original purchase value of the existing equipment and other facilities represents practically those investments of the 1952-58 period (except the already scrapped assets).									
CAPACITY POWER: Process equipment: Electric motors	575	kW	Generating equipment Installed capacity	—	kVA	WORKING TIME PER OPERATIVE WORKER:			
External conditions: Transport:	Long distance and local area - fair.			Normal hour/day:	8 hours	Normal days/year:	260 days		
Utilities:	Electricity, water and gas, fair.			Actual hours/year:	2,080 hours				
Community:	Residential, health and recreation, fair; educational excellent.			CAPACITY OF OPERATIVE SHOPS:					
<p>Only 40% of the capacity of wax preparation is utilized; automation and mechanization, moderate. 23% of the capacity of booklets-making department is utilized; automation and mechanization high.</p>									

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Engineering study	1. Technical and managerial personnel	8. Import and export management
2. Financial assistance	4. Industrial training	9. Administration of foreign investment
3. Industrial services	7. Technical consultancy	
4. Equipment supply, installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project
2				In certain cases the company is prepared to render financial assistance to firms in developing countries.
5				The establishment could, if necessary, provide also managerial and technical personnel.
7				The company is interested to sign licence agreements and know-how contracts.

XII. SUPPLEMENTS & NOTES

Bottlenecks and current problems:

No major bottlenecks could be observed during the past years. Efforts are to be made in order to keep the current growth rate. Difficulties occur in finding suitable personnel especially for research work.

Inventory policy:

The average value of finished products in stock amounts to 2% of the total value of production. Production to order only. This enables company to better adapt production programme to individual customers' requirements.

Licenses and know-how agreements:

Company signed licence and know-how contract with an affiliated company in Brasil. - Application of company-owned patents.

Depreciation policy:

The straight-line as well as accelerated methods are applied.

Wages and salaries:

Commissions for salesmen account for appr. 30% of total wage costs.

IV. ANNUAL PRODUCTION

(1966)	Yr. of first prod.	Quantity produced	Nominal capacity output	Unit price at factory (US \$)	Total production value (1966 US \$)
Products for group of products	Unit	Output			
- Wax matches (in boxes of 50 sticks)	Box	402,000	400,000	5.1/ gross	1,327
- " " (" " 72 ")	Box	224,466	350,000	4.5/ "	1,010
- Friction matches (in booklets of 20 sticks)	Box	58,527	210,000	0.7/ "	41
- " " (" " 30 ")	Box	1,330	16,000	1.0/ "	1
- " " (" " 40 ")	Box	1,973	24,000	1.4/ "	3
* TOTAL VALUE OF PRODUCTION:					2,380

* The enterprise reported additional US \$ 2,240,000 revenue from the resale of finished matches (to which no more than re-labelling was performed in this enterprise). This additional revenue (as well as the expenditures and the profits originating from the resale activity) is not included in these Profile data.

EXPORTS: None

CAPACITY UTILIZATION:

The box-making capacity for wax matches is practically fully utilized. But the capacity for booklet-match production is nearly 4 times higher than the actual production; weak demand for book matches (which in turn is due to the excessive competition in this field of domestic industry) is the major reason.

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed	Total consumption value 1966 US \$			
	Unit	Purchase	% Imported	Tariff rate	
1. Energy and water					
TOTAL:					21
- Electricity	000 Kwh	358.3			8
- Liquid fuels and lubricants	000 l	392			11
- Water	000 m ³	35			2
2. Production materials					993
TOTAL:					
- Potassium chlorate	t	309.3	-		173
- Paper	t	44.0	-		15
- Paraffin	"	592.5	-		152
- Cardboard	"	773.0	-		274
- Phosphorus	"	22.8	100		40
- Sulphur	"	26.0	-		1
- Waxed paper	"	535.2	-		338

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group: Manufacture of miscellaneous chemical products (ISIC: 319)

1. Size groups by number of persons employed	Number of establish. units	Number of employees	Ave. no. of emp. 1965	Ave. per emp. prod. val. 1965	Ave. cap. prod. ratio (%)
Up to 5	478	1,555	658	8,861	65
6 - 15	450	4,302	1,073	7,565	71
16 - 25	222	4,458	1,295	10,868	72
26 - 100	435	22,157	1,386	6,853	19
over 100	175	47,208	2,045	11,170	71
TOTAL	1,760	79,680	1,740	10,265	73
2. Size groups by value of annual production 1965 US \$:					
Up to 8	508	1,322	183	1,239	74
8 - 40	466	3,375	573	2,891	94
40 - 120	336	5,423	992	4,554	79
120 - 240	231	7,175	1,127	559	86
240 - 400	153	6,201	1,310	7,636	71
over 400	356	56,739	2,023	12,291	72
TOTAL	2,064	80,235	1,726	5,387	80

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1966)	Value added US \$
1. Wages & salaries	
- Employees in direct production (268 persons)	560
- Other employees (14 persons)	93
2. Other payments for employees	160
3. Annual depreciation	111
4. Rentals paid	16
5. Interest & royalties	12
6. Sales tax (not included in total)	(151)
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	161
	923

VII. MONTHLY EARNING RATES

(End of 1964)	No. of per. empl.	Average earning rate US \$
1. Local non-operatives		
TOTAL	20	293
- Managers	1	1,500
- Engineers	1	-
- Technicians	1	-
- Accountants	1	430
- Sales officers	4	176
- Other professional staff	1	-
- Clerks & typists	12	176
2. Local operatives		
TOTAL	192	119
- Supervisors	1	1,250
- Foremen	6	400
- Machine operators	106	136
- Craftsmen	42	136
- Truck drivers	2	120
- Other full-time operatives	74	104
- Unskilled & part-time operatives	46	76
- Other specific category	65	71
3. Foreign employees		
TOTAL	-	-

3. Other materials & supplies

Total consumption value 1965 US \$
163

4. Business services purchased

Total
282
- Transport, storage & insurance
- Communication, advertisements, etc.

5. Work performed by sub-contractors

Total
1,459

IX. SUPPLEMENTS**COMMISSION NOTE:**

U.S. \$ 2,240,000 worth of matches, produced by a subcontractor and resold by this enterprise, is excluded from the cost-revenue relationship in this profile.

GOVERNMENT POLICIES:

There are as many as 25 firms competing in the same industry. Some measures should be taken to control price competition and quality standard.

Major Products: Soaps, detergents and cosmetics. Capable of producing annually about 1,600 t on 1-shift operation.

Reporting Unit: A one-establishment enterprise, privately owned; founded in 1945; 90 employees. Insignificant research, development and export activities.

I. FIXED CAPITAL ASSETS				II. MONTHLY GROSS WAGES AND SALARIES (Number of persons)							
(End of 1967)				(1967 monthly average)							
	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)	100 US \$	100 US \$	140 US \$	160 US \$	240 US \$	240 US \$	560 US \$	
1. Primary process equipment (including installation cost)		254		-	-	-	-	-	-	-	
TOTAL	..	246	8	8	-	-	-	-	-	-	
- Process equipment	174	8	-	-	-	-	-	-	-	-	
- Hand tools & apparatuses	..	-	-	-	-	-	-	-	-	-	
2. Buildings	24	135		-	-	-	-	-	-	-	
TOTAL	24	135	20	-	-	-	-	-	-	-	
- Primary industrial buildings (total floor space: 4,000 m ²)	24	135	20	-	-	-	-	-	-	-	
- Auxiliary buildings				-	-	-	-	-	-	-	
- Warehouses				-	-	-	-	-	-	-	
- Office/administration buildings				-	-	-	-	-	-	-	
- Housing				-	-	-	-	-	-	-	
3. Auxiliary facilities (excl. buildings)	..	..	..	-	-	-	-	-	-	-
TOTAL	18	..	..	-	-	-	-	-	-	-
- Internal power equipment	18	..	..	-	-	-	-	-	-	-
- Laboratory facilities	3	..	..	-	-	-	-	-	-	-
- Means of transportation	16	20	4	-	-	-	-	-	-	-	
- Office equipment	..	31	5	-	-	-	-	-	-	-	
TOTAL PHYSICAL FIXED ASSETS (excluding land):	..	..	..	-	-	-	-	-	-	-
4. Other fixed capital assets	6	22	-	-	-	-	-	-	-	-	
TOTAL	6	77	-	-	-	-	-	-	-	-	
- Land (total acreage: 70,000 m ²)	6	77	-	-	-	-	-	-	-	-	
- Land improvements	-	-	-	-	-	-	-	-	-	-	
- Others	-	-	-	-	-	-	-	-	-	-	
(**) Rented since 1918; renovated in 1945.											
*NB: Details of process equipment and capacity of primary operative shop, are given on Page three (Section VIII).											
III. INVENTORIES				IV. MANNING TABLE (Number of persons)							
(End of 1967)				(As per 30/9/1967)							
				Shift categories: A Supervisory staff and foremen (for all shifts) B Skilled operatives C Semi-skilled operatives (machine operators) D Unskilled operatives							
				Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
				90	34	56	-	-	-	-	-
EXTERNAL CONDITIONS:				ALL SHOPS & UNITS:							
Transport:	external long distance	fair									
	internal long distance	"									
	local and city	excellent									
Utilities:	electricity	fair									
	water	"									
	gas	insignificant									
Community:	residence	insignificant									
	health and recreation	"									
	education	fair									
Own Welfare Facilities:	-	-									
WORKING TIME PER OPERATIVE WORKER:											
	1st shift	2nd shift	3rd shift								
Shift hours/day: (*)	9	-	-								
Actual hours/year:	2,080	-	-	hours							
Actual days/year:	231	-	-	days							
(*) Actual											

V. ANNUAL PRODUCTION

(1967)	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price at factory (US \$)	Total output value (1000 US \$)
Products (or group of products)					
Laundry soap (solid)	1945	t	540	350.2	189
Toilet soap	1950	"	244	1,060.6	258
Soft soap	1945	"	38	255.6	10
Shampoos	1958	"	13	2,399.4	31
Powdered soap	1945	"	416	294.5	121
Stain remover	1948	"	34	77.4	3
Hand cleaner	1956	"	39	194.5	8
Liquid soap	1956	"	196	430.6	84
Perfumes	1956	"	10	5,081.3	51
Others	..	..	..	..	217
Revenues from contract and commission work	..	..	..	..	53

TOTAL VALUE OF PRODUCTION: 1,027

VI. VALUE ADDED

(1967)	Total value (1000 US \$)
1. Annual wages & salaries	
- Operative workers (61 persons)	84
- Non-operative workers (36 persons)	79
2. Other payments for employees	39
3. Annual depreciation	21
- Machinery & equipment	18
- Buildings & other facilities	2
- Non-physical capital assets	1
4. Rentals paid	9
5. Interest & royalties	8
6. Sales tax	49
7. Other indirect business taxes	
8. (-) Subsidies	-
9. Corporate income before tax	62

TOTAL VALUE ADDED: 351

DESCRIPTION OF MAJOR PRODUCTS:

Soaps, detergents and cosmetics are manufactured in batches.

All products could be exported, however, due to keen competition prospects for increasing foreign sales are rather uncertain.

Packaging: Laundry soaps: family-size packages.

Toilet soaps: single packages with appealing make-up.

Detergents: industrial and family-size packages.

Cosmetics: single packages with appealing make-up.

MARKET ASPECTS:

Re-sales:

Powdered soap, deodorant spray, particular brands of cosmetics.

Consumers of products:

Households, laundries, and industrial users.

Sales organisation:

14 salesmen try to cover the whole country.

Share in the domestic market:

Approximately 10% of the national soap market.

EXPORT:

Total annual export: US \$ 6,800.

Major products	To Western countries	To Eastern countries	To Developing countries
No details available due to insignificance of exports; only Western countries are supplied with products of this company.			

Export price policy:

Company reports difficulties to maintain abroad the price level of laundry soap and detergents due to heavy competition of internationally well-known enterprises. Mention is made that the establishment can compete with its toilet soap and cosmetics on the world market and therefore intends to promote exports.

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.C. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity	% import	Imports value	Total consumption value (1000 US \$)
1. Energy and water					
TOTAL:				12	
- Electricity	000 kWh	179	-	-	6
- Coal	t	374	-	-	6
2. Production materials					
TOTAL:				331	
- Tallow and other fats for soap	t	1,170	34	(*)	156
- Lye and caustic potash	"	220	3		23
- Fillers and soda	"	173	-		9
- Perfumes	"	4.3	82		40
- Dyestuff	"	0.6	-		1
- Other raw materials (chemicals, lanolin, glycerin, bleaching agents)	"	323	32		102

(*) Not determinable due to changing customs declarations.

3. Other materials & supplies	Total consumption value (1000 US \$)
TOTAL:	167
- Packaging material (cartons, plastic and glass bottles, plastic bags)	162
- Parts, supplies & services	-
- Other materials & supplies	5
4. Business services purchased	
TOTAL:	166
- Transportation, storage & insurance	33
- Communication, advertising & other business services	133
5. Work performed by subcontractors	
TOTAL:	-

TOTAL VALUE OF CONSUMPTION: 676

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (8.1):

	Number	Original Purchase Value (\$000 US \$)	Regis- ter value (\$000 US \$)	Ave. Age (Yrs)	Remarks	Further details
<u>Soap boiling plant:</u>						
- Boilers	..	18	20	17		
- Drying plant	..	23	25	5		
<u>Laundry soap line:</u>						
- Laundry soap presses and packing machines	..		{ 4	10		
			71	5		
<u>Toilet soap line:</u>						
- Crystallisers	..		24	5		
- Spray-mixer	..			10		
- Packing machine	..		{ 15	3		
- Packing machines for cosmetics	..		3			
- Dosing machines	..		15	5		
- Conveyor belts						
Other specialised machines	..	78	..	-		
Other common type of machines	..	31	..	-		

Remarks:
 1. Purchased second-hand
 2. Oldster
 3. Reused
 4. Self-constructed

Boilers:
 Total capacity of all boilers amounts to 70,000 l.

Laundry soap line:
 Daily running time 7 hrs; output capacity 500 - 700 kg/hr.

Various supplier countries (Italy, FR. Germany)

CAPACITY POWER:
Process equipment:
 - electric motors kW - 70 (miniature-sized motors only)

Generating equipment:
 - installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Modernization			C. modern standard	D. apparently short of today's standard	E. almost outdated	Automation	I. fully automated	II. semi-automated
		A. most advanced	B. considerably high standard	C. medium standard						
Soap boiling shop		C	II							
Drying plant		A	-							
Laundry soap shop		C	I							
Toilet soap shop		C	II							
Powdered soap shop		C	II							
Cosmetics shop		C	II							

CAPACITY UTILIZATION:

Full-capacity output: US \$ 1,200,000

Current utilization: based on 1-shift operation.

Major products (or processes)	Approximate %									
	W 30	W 30	W 30	W 30	W 30	W 30	W 30	W 30	W 30	W 30
All products	x									

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963	730	84	1
1964	750	85	1
1965	820	83	1
1966	940	88	3
1967	1,080	97	7
1968	~ 1,160	~ 98	~ 8

Total output (\$000 US \$)	No. of persons employed	Total exports (\$000 US \$)
730	84	1
750	85	1
820	83	1
940	88	3
1,080	97	7
~ 1,160	~ 98	~ 8

2. Investments in the past:

From 19 - to 1957 :	30	Approximate amount (\$000 US \$)	Type of investment
" 1957 " 1959 :	70		Continuous soap drying plant
in 1967 :	10		Continuous toilet soap drying plant

3. Future Plan:

From 1968 to 1973 : 100 Further specialization in cosmetics

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C - Confidential; figures of these size groups are included in those underlined.

(1964)

Industry Soap and detergents manufacturing

(ISIC-Code: 319 -)

1. Size groups by number of persons employed	No. of estab.	No. of emp.	Ave. W. & S.	Ave. gross prod. val./per. pers. (\$000 US \$)	Ave. value added/prod. ratio (%)	2. Size groups by annual sales of production (\$000 US \$):	No. of estab.	No. of emp.	Ave. W. & S.	Ave. gross prod. val./per. pers. (\$000 US \$)	Ave. value added/prod. ratio (%)
up to 19	127	461	1,647	9,607	53	up to 20	75	50	50	7,225	50
20 - 99	39	1,735	1,617	11,469	51	20 - 40	12	59	1,326	6,067	55
100 - 499	1	2,694	2,332	15,582	61	40 - 200	44	559	1,478	7,697	54
500 - 999	1	C	C	C	C	200 - 400	13	355	1,829	10,859	53
over 1,000	1	C	C	C	C	400 - over 2,000	24	1,852	2,214	14,863	50
						over 2,000	4	C	C	C	C
TOTAL:	175	4,890	2,075	13,559	57	TOTAL:	175	4,890	2,075	13,559	57

X. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services:
- 1. Engineering study
 - 2. Financial assistance
 - 3. Industrial services
 - 4. Equipment supply, installation & maintenance
 - 5. Technical and management personnel
 - 6. Industrial training
 - 7. Technical consultancy
 - 8. Import and export assistance
 - 9. Advise on foreign labour

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project

3

Depending on the technical and financial possibilities of the projects in question, the company is prepared to provide know-how contracts.

XI. SUPPLEMENTS & NOTES

Commission work:

The establishment manufactures brandname toilet soaps according to recipes of 4 contractors. Commission received amounted to US \$ 53,000. The work is based on long-term agreements.

Current problems:

How to protect against the ever increasing competition of large international concerns.

Inventory policy:

On the average the value of finished products amounts to 7% of the value of annual production.

Major Products:

Pharmaceutical products (vasoconstrictors, antiseptics, analgesics, drops, etc.) and cosmetics (skin creams, skin tonics, lotions, skin and suntan oils, etc.). In 1968 total output amounted to 11.5 t of pharmaceuticals and to 4.5 t of cosmetics based on one-shift operation.

Reporting Unit:

A one-establishment enterprise; founded in 1950; privately owned; no participation of foreign capital; 30 employees; licensed production of cosmetics. Some exports.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	63	75	
- Process equipment *	48	56	1-13
- Hand tools & apparatuses	15	19	10
2. Buildings	68	93	
TOTAL	45	62	30
- Primary industrial buildings (total floor space: 500 m ²)	-	-	
- Auxiliary buildings	-	-	
- Warehouses	-	-	
- Office administration buildings	21	31	30
- Housing	-	-	
3. Auxiliary facilities (incl. buildings)	30	35	
TOTAL	-	-	
- Internal power equipment	-	-	
- Laboratory facilities	7	8	2
- Means of transportation	7	10	4
- Office equipment	16	17	10
TOTAL PHYSICAL FIXED ASSETS (excluding land)	161	203	
4. Other fixed capital assets	62	83	
TOTAL:	-	-	
- Land (total acreage: 200 m ²)	-	-	
- Land improvements (t.acr. 750 ")	9	12	
- Others	53	71	

II. MONTHLY GROSS WAGES AND SALARIES

Number of personnel

(1968 monthly average)

	up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 560 US\$	over 560 US\$
1. Local non-operatives	-	-	-	-	-	-
- Managers	-	-	-	-	1	-
- Engineers	-	-	-	-	-	-
- Technicians	-	-	-	-	-	-
- Accountants	1	-	-	-	1	-
- Sales officers	1	1	-	1	1	-
- Clerks and typists	-	1	-	3	-	-
2. Local operatives	-	-	-	-	1	-
- Supervisors	-	-	1	2	-	-
- Foremen	-	-	-	-	-	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators	-	5	-	-	-	-
- Craftsmen	-	-	-	1	-	-
- Truck drivers	-	-	-	-	-	-
- Unskilled operatives	3	5	2	-	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	2	-	-	-	-	-
3. Foreign employees	-	-	-	-	-	-
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

*NB: Details of plant equipment and capacity of primary operative shops are given on Page Three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	excellent
	internal long distance	"
	local and city	fair
Utilities:	electricity	excellent
	water	"
	gas	"
Community:	residence	fair
	health and recreation	"
	education	"
Own Welfare Facilities:	-	-

III. INVENTORIES

(End of 1968)

Inventories	Actual value (1000 US \$)	Number of months
TOTAL:	53	5
- Production materials	37	5
- Other input materials	3	7
- Work-in-process	7	2
- Finished products	6	1

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
- Shift hours/day:	9	-	-	hours
- Actual hours/year:	2,023	-	-	days
- Actual days/year:	226	-	-	days

IV. MANNING TABLE

Number of personnel

(1968 average)

	Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
ALL SHOPS & UNITS:	32	15	-	-	-	-	-	-
1. Primary operative shops	16	3	-	-	13	-	-	-
- Processing shop	3	1	-	-	2	-	-	-
- Packing shop	13	2	-	-	11	-	-	-
2. Auxiliary operative units	4	-	-	4	-	-	-	-
- Repair & maintenance	1	-	-	1	-	-	-	-
- Mechanical shop	-	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-	-
- Utilities control	-	-	-	-	-	-	-	-
- Product & material storage	-	-	-	-	-	-	-	-
- Off-site transport	1	-	-	1	-	-	-	-
- Guards, cleaners, etc.	2	-	-	2	-	-	-	-
3. Auxiliary non-operative units	12	12	-	-	-	-	-	-
- Production management	1	1	-	-	-	-	-	-
- Research & development	1	1	-	-	-	-	-	-
- Sales unit	5	5	-	-	-	-	-	-
- Accounting	3	3	-	-	-	-	-	-
- General administration	2	2	-	-	-	-	-	-

V. ANNUAL PRODUCTION

(1968)		Yr. of first prod.	Quantity produced	Avg. unit price at factory (US \$)	Total output value (000 US \$)
Products for group of products		Unit	Quantity		
<u>Pharmaceuticals:</u>					
Vasoconstrictor	1951-1961	kg	5,726	14.3	82
Drops	1968	"	2,300	2.6	6
Antiemetics	1953-1962	"	1,063	99.7	106
Analgetics	1951-1965	"	1,172	24.7	29
Others	1951-1968	"	1,107	4.5	5
<u>Cosmetics:</u>					
Skin creams		"	1,162	32.7	38
Skin tonic lotions	1962	l	1,390	7.2	10
Skin and suntan oils		kg	1,851	10.8	20
Others		l	665	22.5	15
TOTAL VALUE OF PRODUCTION:				311	*****

VI. VALUE ADDED

(1968)		Total value (000 US \$)
1. Annual wages & salaries		55
- Operative workers	22	
17 personnel		
- Non-operative workers	33	
15 personnel		
2. Other payments for employees		8
3. Annual depreciation		14
- Machinery & equipment	12	
- Buildings & other facilities	1	
- Non-physical capital assets	1	
4. Rentals paid		-
5. Interest & royalties		9
6. Sales tax		16
7. Other indirect business taxes (*)		1
8. (-) Subsidies		-
9. Corporate income before tax		47
(*) Land tax, stamp. TOTAL VALUE ADDED:		150

DESCRIPTION OF MAJOR PRODUCTS:

Pharmaceuticals: Predominantly production of remedies for nausea and dizziness, anti-emetic drugs (50% of total production) and nose drops (25% of total production); limited product-mix; serial production; prompt delivery.
 Packings: ampoules, drip-flacons, bottles, cellophane wrapped carton boxes, etc.

Cosmetics: Licensed manufacture of high-quality products; serial production.
 Packings: creams in pots; skin lotions, complexion milk in bottles; spray boxes.

MARKET ASPECTS:

Consumers of products:
 Hospitals and pharmacists, households.

Sales organisation:
 5 salesmen for pharmaceuticals; 2 salesmen for cosmetics;
 1 general representative in South-Eastern Europe and 1 in the Middle-East.

Extent of the market:
 Mainly domestic market. Foreign sales areas: particularly South-Eastern Europe.

Share in the domestic market:
 Pharmaceuticals and cosmetics: approx. 0.5% each.

Exports and export price policy:
 5 - 10% of annual sales of pharmaceuticals.
 Prices for exports are fixed a bit higher than those for the domestic market.

EXPORT:
 Total annual export: 11,000 US \$.

Major products	To Western countries	To Eastern countries	To Developing countries
Pharmaceuticals	100%	-	-

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.C. has been adjusted accordingly.

Competition in the market:

Quality and prices of competing products are more or less the same. Direct marketing by licenser.

VII. ANNUAL CONSUMPTION

(1968)		Quantity consumed	Average import dollar (000 US \$)	Total consumption value (000 US \$)	Total consumption value (000 US \$)
		Unit	Quantity	% import	
1. Energy and water					
TOTAL:					3
- Electricity	000 kWh	18			1.4
- Fuel oil	l	22			1
- Gas	000 m³	4			0.3
- Water	000 m³	1.5			0.2
2. Production materials					
TOTAL:					80
- Chemicals for pharmaceuticals	..	..	66	1	23
- Chemicals for cosmetic products (essence of perfume)	..	..	20	0.3	6
- Packagings for pharmaceuticals	..	..	-	-	34
- Packagings for cosmetic products	..	..	3	-	15
3. Other materials & supplies					
TOTAL:					8
- Packaging material					1
- Parts, supplies & services					4
- Other materials & supplies					3
4. Business services purchased					
TOTAL:					67
- Transportation, storage & insurance					3
- Communication, advertising & other business services					64
5. Work performed by subcontractors					
TOTAL:					3
TOTAL VALUE OF CONSUMPTION:					
					161

MIDDLE EUROPE : 319 - (2)

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (a.i.)	Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Av. Age Year	Remarks M: Purchased second-hand O: Obsolete R: Reused S: Self-manufactured	Supplier country	Daily running time	Capacity output	
								Remarks	
Tableting machine	2	2	3	1 and 13 (*)	Austria	5 hrs	150,000 units/month		
Stirring machine	1	2	2	10	Germ., F.R.	2 "	150,000 "		
Wrapping machine (cellophane)	2	4	5	2 and 6	UK, France	2 "	4,000 units/day		
Packing machine (cartone)	1	11	12	2	Germ., F.R.	3 "	30,000 "		
Quick drier	1	3	4	1	Switzerl.	2-3 hrs	150,000 units/month		
Bottle cleaning machine	1	3	3	1	Germ., F.R.	2-3 "	11,000 units/day		
Bottle filling machine	1	..	..	2	" "	3 "	5,000 "		
Printing press and paper trimmer	1	2	2	1					
Central heating plant	1	10	12	8					
Shelfs and supply depot	..	6	7	10 (*)					
Others	..	4	6	10 (*)					

CAPACITY POWER:

Process equipment:

- electric motors - kW

Generating equipment:

- installed capacity - kVA

(a) Obsolete process equipment

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization: A: most advanced B: considerably high standard C: medium standard D: apparently short of today's standard E: almost outmoded	Number	Autom.	Further details:		Automation: I: fully automated II: semi-automated III: non-automated
Processing shop and laboratory	Processing of substances and controlling of production materials; minor research activities.	C	II		Capacity output: 300,000 units/month		
Packing	Tablets and liquids are filled into small containers which again are packed into cartons; automatic wrapping.	C	II	" "	300,000 "	"	

CAPACITY UTILIZATION:

Full-capacity output:

US \$ 450,000 based on 1-shift operation.

One additional non-operative and 4 operatives would be required in order to reach this figure.

Current utilization:

Major products (or processes)	Up	Approximate %	Up	Approximate %	Up	Approximate %	Up	Approximate %
	10	20	30	40	50	60	70	80
Vasoconstrictors	x							
Antiemetics	x							
Analgetics	x							
Skin creams	x							
Skin lotions	x							
Skin and suntan oils	x							

Underutilisation of capacity is due to insufficient demand.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	1963	1964	1965	1966	1967	1968
Total output 1960 US \$	170	190	200	240	270	310
No. of persons employed	34	33	35	37	38	32
Total exports 1960 US \$	6	7	6	7	12	11

2. Investments in the past:

From 1959 to 1968:	77	Type of investment:
" 1959 " 1968 :	37	Purchasing of buildings
" 1959 " 1968 :	44	Machinery and equipment
		Vans, central heating, equipment

3. Future Plan:

From 19 .. to 19 .. :	77	Introduction of new products; rationalisation of bottle filling; installation of new welfare facilities.
		As a consequence of the proposed investment 4 auxiliary operatives will be employed less. However, one additional operative will be needed.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C - confidential, figures of this size group are included in the underlined figures.

(1964)

Pharmaceutical products manufacturing

(ISIC Code: 319)

Industry	No. of estab.	No. of emp.	Av. W. & S. per pers. 1960 US \$	Av. gross prod. val./per pers. 1960 US \$	Av. value added/gross prod. val. (%)
1. Size groups by number of persons employed:					
up to 19	88	457	1,679	9,071	56
20 - 99	39	1,538	1,750	9,968	58
100 - 499	14	3,174	2,065	13,838	53
500 - 999	1 ↑	6	6	6	6
over 1,000	-	-	-	-	-
TOTAL:	142	5,069	1,935	11,931	54

2. Size groups by annual value of production 1960 US \$:	No. of estab.	No. of emp.	Av. W. & S. per pers. 1960 US \$	Av. gross prod. val./per pers. 1960 US \$	Av. value added/gross prod. val. (%)
up to 20	20	56	1,050	5,089	62
20 - 40	17	87	1,415	5,639	59
40 - 200	35	399	1,777	7,958	62
200 - 400	27	1,008	1,760	7,646	57
400 - over 2,000	19	1,857	1,876	9,578	54
over 2,000	6	1,662	2,201	16,672	53
TOTAL:	142	5,069	1,935	11,931	54

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1 Engineering study	5 Perfected and managerial personnel	8 Import and export promotion
2 Financial assistance	6 Industrial training	9 Admission of foreign labour
3 Industrial services	7 Technical consultancy	
4 Equipment supply, installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects
3				Participation in industrial projects is possible to a very limited extent only.
5				Delegation of experts feasible.
7				The reporting establishment is interested in signing licence agreements with developing countries.

XII. SUPPLEMENTS & NOTES

Commission work:

Pelleting of tablets, filling of ampoules and foil sealing of perforated bottles was done by subcontractors on a short-term basis. The commission paid by the enterprise amounted to US \$ 3,200.

Depreciation policy:

The straight-line method as well as the accelerated method are applied.

Inventories policy:

High amount of auxiliary materials due to purchasing policy (more favourable prices can be obtained by purchasing a higher quantity at once).

Value of finished products in stock amounts to about 2% of total value of production.

Governmental policies:

Producer prices are stipulated by government regulations at a very low level in comparison with world-market prices. Maximum profit margin allowed: 10%.

NIDUS SUBPAC S.A. - CHILE

1.1.8

Major Products: Matches, zip fasteners, metal for die casting and injection moulding.
In 1967 total value of production amounted to UF \$ 176,000 based on 1-shift operation.

Reporting Unit: A branch of a establishment enterprise, privately owned; founded before 1940, 134 employees, 15 exports;
almost no licensed manufacturing.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Book value (1967 US \$)	Replace- ment value (1967 US \$)	Ave (Yrs.)
1. Primary process equipment (including installation cost)	1,113	-	-
TOTAL	1,113	-	-
- Process equipment *	1,113	-	-
- Hand tools & apparatus	-	-	-
2. Buildings	1,262	-	-
TOTAL	1,262	-	-
- Primary industrial buildings	1,150	-	-
- Total floor space = 14,500 m ²	1,150	-	-
- Auxiliary buildings	1,126	-	40
- Warehouses	-	-	-
- Office/Administrative buildings	26	-	50
- Housing	-	-	-
3. Auxiliary facilities (excl. buildings)	277	-	-
TOTAL	277	-	-
- Internal power equipment	117	-	40
- Laboratory facilities	4	-	10
- Means of transportation	8	-	6
- Office equipment and others	126	-	-
TOTAL PHYSICAL FIXED ASSETS (excluding land)	2,252	-	-
4. Other fixed capital assets	178	-	-
TOTAL	178	-	-
- Land (total acreage = 34,117 m ²)	92	-	-
- Land improvements (t.s.c.m. 75,497 m ²)	46	-	-
- Others (see "Office equipment")	-	-	-

*NB: Details of process equipment and apparatus can be found in the detailed description in Page three (Section III).

EXTERNAL CONDITIONS

Transport	external long distance	excellent
	internal long distance	"
	local and city	"
Utilities	electricity	excellent
	water	"
	gas	"
Community	residence	fair
	health and recreation	excellent
	education	excellent
Own Welfare Facilities	-	-

III. INVENTORIES

(End of 1967)

	Actual value (1967 US \$)	Number of months
Inventories	512	-
TOTAL	512	6
- Production materials	191	6
- Other input materials	6	2.5
- Work-in-process	81	6
- Finished products	124	3

WORKING TIME PER OPERATIVE WORKER

	1st shift	2nd shift	3rd shift	Total hours/day	Actual hours/year	Actual days/year
Shift hours/day (*)	9	-	-	hours		
Actual hours/year	2,069	-	-	hours		
Actual days/year	234	-	-	days		

(*) Actual hours: regular working time: 4 hrs day

II. MONTHLY GROSS WAGES AND SALARIES

Number of persons

1967 monthly average

Up to 100 100- 200 200- 300 300- 400 400- 500 500- 600 600- 700 700- 800 800- 900 900- 1,000

1. Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists
- Foremen

2. Local operatives

- Supervisors (*)
- Foremen
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

(*) Company considers supervisors and foremen as local non-operatives.

IV. WORKING TABLE

Number of persons

(End of 1967)

	Total	A	B	C	D	E	F	G	H
ALL SHOPS & UNITS	234	45	119	-	-	-	-	-	-
1. Primary operative shops	206	17	50	-	139	-	-	-	-
- Matches	93	5	15	-	73	-	-	-	-
- Zip fasteners	69	5	20	-	44	-	-	-	-
- Metal for die casting and injection moulding	44	7	15	-	22	-	-	-	-
2. Auxiliary operative units	17	17	-	-	-	-	-	-	-
- Repair & maintenance	6	6	-	-	-	-	-	-	-
- Mechanical shop	-	-	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-	-	-
- Utilities control	2	2	-	-	-	-	-	-	-
- Product & material storage	4	4	-	-	-	-	-	-	-
- Off-site transport	3	3	-	-	-	-	-	-	-
- Guards, cleaners, etc.	2	2	-	-	-	-	-	-	-
3. Auxiliary non-operative units	11	11	-	-	-	-	-	-	-
- Production management	2	2	-	-	-	-	-	-	-
- Research & development	-	-	-	-	-	-	-	-	-
- Sales unit	6	6	-	-	-	-	-	-	-
- Accounting	2	2	-	-	-	-	-	-	-
- General administration	1	1	-	-	-	-	-	-	-

Skill categories: 1. Supervisory staff and foremen (for all shifts)
2. Skilled operatives
3. Semi-skilled operatives (machine operators)
4. Unskilled operatives

Major Products:

Synthetic resin and oil varnishes, thinners and other related products. Capable of producing approximately 1,650 tons of varnishes and thinners annually based on 1-shift operation. Full-capacity output amounts close to US \$ 1.5 million.

Reporting Unit:

A one-establishment enterprise, privately owned; founded in 1934; 100 employees. Leading market position, company belongs to the 10 largest establishments producing varnishes. Close proximity to market. A foreign wood protective fluid is manufactured under licence. Research activity and exchange of experience with other European firms.

I. FIXED CAPITAL ASSETS

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Avg. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	213	267	-
- Process equipment	213	267	-
- Hand tools & apparatuses	-	-	-
2. Buildings	349	639	
TOTAL	349	639	
- Primary industrial buildings (total floor space: 1,970 m ²)	252	503	10
- Auxiliary buildings	39	39	11
- Warehouses	58	97	15
- Office administration buildings	-	-	-
- Housing	-	-	-
3. Auxiliary facilities (excl. buildings)	94	102	
TOTAL	94	102	
- Internal power equipment	-	-	-
- Laboratory facilities	29	32	4
- Means of transportation	41	45	2
- Office equipment	24	25	5
TOTAL PHYSICAL FIXED ASSETS (excluding land):	656	1,008	
4. Other fixed capital assets	391	1,335	
TOTAL	391	1,335	
- Land (total acreage: 3,020 m ²)	112	596	-
- Land improvements (t.scr. 3,020 m ²)	117	584	-
- Others (incl. intangible assets)	155	155	--

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

	up to 100 US\$	100-140 US\$	140-160 US\$	160-240 US\$	240-550 US\$	over 550 US\$
1. Local non-operatives						
- Managers	-	-	-	-	2	2
- Engineers	-	-	-	-	-	-
- Technicians	-	-	-	6	-	-
- Accountants	-	-	1	2	1	-
- Sales officers	-	-	1	5	8	1
- Clerks and typists	-	-	4	3	-	-
- Commercial apprentices	4	-	-	-	-	-
2. Local operatives						
- Supervisors	-	-	-	-	2	-
- Foremen	-	-	-	8	-	-
- Skilled operatives	-	-	11	4	-	-
- Machine operators	-	-	-	19	-	-
- Craftsmen	-	-	-	3	-	-
- Truck drivers	-	-	-	2	-	-
- Unskilled operatives	-	-	-	-	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	2	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page Three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	excellent
	internal long distance	"
	local and city	"
Utilities:	electricity	excellent
	water	"
	gas	insignificant
Community:	residence	poor (see p.4/XII)
	health and recreation	excellent
	education	fair
Own Welfare Facilities:	Sports-club	

IV. MANNING TABLE

(number of persons)

(1968 average)

	Total	A	Skill categories:		
			B	C	D
ALL SHOPS & UNITS:					
1. Primary operative shops	25	3	-	14	8
- Oil and synthetic resin, varnishes	9	1	-	5	3
- Nitrogen varnishes	16	2	-	9	5
2. Auxiliary operative units	10	3	-	27	-
- Repair & maintenance	2	-	-	-	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	-	-	-	-	-
- Utilities control	2	-	2	-	-
- Product & material storage	11	3	8	-	-
- Off-site transport	8	-	8	-	-
- Guards, cleaners, etc.	5	-	5	-	-
- Cleaning of packages	2	-	2	-	-
3. Auxiliary non-operative units	44	44	-	-	-
- Production management	5	5	-	-	-
- Research & development	9	9	-	-	-
- Sales unit	15	15	-	-	-
- Accounting	8	8	-	-	-
- General administration	7	7	-	-	-

III. INVENTORIES

(End of 1968)

	Actual value (1000 US \$)	Number of months
Inventories		
TOTAL:	128	
- Production materials	56	1
- Other input materials	3	1
- Work-in-process	4	1
- Finished products	65	1

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hour/day	9	-	-	hours
Actual hours/year	2,232	-	-	days
Actual days/year	255	-	-	

V ANNUAL PRODUCTION

(1967)	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price on factory (US \$)	Total output value 1000 US \$
Products for group of products					
Matches	1960	cartons (*)	1,882	77.6	141
Sip fasteners	1967	kg	558,600	1.5	838
Metal for die casting and injection moulding	1960	kg	37,300	5.7	212
Revenue from contract and commission work					33
Total output value per 1000 carton containing 10,000 match-boxes					

TOTAL VALUE OF PRODUCTION: 127

VI VALUE ADDED

(1967)	Total value 1000 US \$
1 Annual wages & salaries	413
- Operative workers	294
- Non-operative workers	119
2 Other payments for employees	36
3 Annual depreciation	36
- Machinery & equipment	16
- Buildings & other facilities	10
- Non-physical capital assets	2
4 Rents paid	-
5 Interest & royalties	40
6 Sales tax, excise, ad valorem	44
7 Other indirect business taxes	2
8 (+) Subsidies	7
9 Corporate income before tax (Total)	(+) 481

TOTAL VALUE ADDED: 481

DESCRIPTION OF MAJOR PRODUCTS:

No information available.

MARKET ASPECTS:

Consumers of products:

Matches: Foodstuff wholesalers, tobacco dealers, drug stores.

Sip fasteners: Clothing industry.

Metal for die casting and injection moulding: Electrical industry.

Sales organisations:

6 representatives for consumer goods and 3 representatives for ancillary products.

1 foreign sales office.

Share in the domestic market:

Matches: 10%; sip fasteners: 10%.

Competition in the market:

Imported matches are sometimes up to 50% cheaper (dumping).

EXPORT:

Total annual export: US \$ 140,000

Major product	To Western countries	To Eastern countries	To Developing countries
Matches	80%	-	20%
Sip fasteners	60%	35%	15%
Metal for die casting and injection moulding	100%	-	-

Export price policy:

Export prices have to be adjusted according to international market prices.

VII ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity	% import	Total consumption value 1000 US \$
1 Energy and water				
TOTAL				27
- Electricity	000 kWh	360		9
- Coal	t	1,306.4		15
- Petrol	t	11		0.4
- Gas	000 cu m	120		2
- Water	000 cu m	20		1
2 Production materials				
TOTAL				316
- Barbed wire	ft (*)	1,400		29
- Chemicals	kg	116,000		84
- Copper and nickel alloys	kg	33,400		51
- Zinc and aluminium alloys	kg	50,103		18
- Plastics	kg	40,000		13
- Textile ribbons	kg	1,200,000		48
- Metal for sip fasteners	kg	200,000		63
- Cardboard	kg	40,900		10

(*) ft (Footmeter) = m³ in terms of solid volume of wood.

3. Other materials & supplies

TOTAL	1000 US \$
- Packaging material	81
- Parts, supplies & services	-
- Other materials & supplies	-

4. Business services purchased

TOTAL	1000 US \$
- Transportation, storage & insurance	9
- Communication, advertising & other business services	13
Total	-

5. Work performed by subcontractors

TOTAL	1000 US \$
Total	-

TOTAL VALUE OF CONSUMPTION: 446

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)	Number	Book value 1000 US \$	Replace- ment value 1000 US \$	Ave. Age (yrs)	Re- marks	Supplier country	Year of installa- tion	Daily running time	Capacity output
Zip fastener processing equipment	20	348	..	10		Germany, F.R.	1957-1964	7 hrs	700 - 1,100 m/day
Die cast metal presses	8	194	..	5		Germany, F.R. Switzerland	1955-1966	6 hrs	..
Injection moulded metal presses	9	194	..	4		Germany, F.R. Italy	1961-1966	6 hrs	..
Match processing equipment	6	251	..	40/1		Austria USA	1930-1967	9 hrs	200,000 boxes/day
Machine tools	..	116	..	5					

CAPACITY POWER:

Process equipment:
electric motors 600 kWGenerating equipment:
installed capacity - kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Modernization:		Further details
		A	C	
Matches		A	III	
Zip fasteners		C	III	
Metal for die casting and injection moulding		A	II	

CAPACITY UTILIZATION:

Full capacity output: ..

Current utilization:

Major products (or processes)	Approximate %									
	up to 20	20-40	40-60	60-80	80-90	90-100	100	100	100	100

Approximately 60 - 70% of the existing capacity could be utilized.

This under-utilisation is due to lack of demand.

In order to operate at full-capacity output another 2 non-operatives and 33 operatives would be required on the 1st shift.

IX. HISTORY & PLAN

1. Performance in the past:	Total output 1000 US \$	No. of persons employed	Total exports 1000 US \$
Year: 1963	1,110	291	70
1964	1,180	320	90
1965	1,230	285	80
1966	1,150	281	80
1967	890	232	140
1968	1,220	240	310

2. Investments in the past:	Approximate amount 1000 US \$	Type of investment
From 1960 to 1965 :	800	Machinery and equipment to
1967 :	130	produce zip fasteners and matches (booklet-type)

3. Future Plan:

From 1968 to 1972 :	770	Introduction of new products, expansion of machinery and production departments, rationalisation of machinery and manufacturing processes. Another 60 persons will then be required on the 1st shift.
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X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in those underlined.

(1964) Vegetable and animal oils and fats and manufacture
of matches, medicinal preparations, soap and detergents. 312/
Industry 319. I NACE Code: 319 1

1. Size groups by number of persons employed:	No. of estab.	No. of empl.	Ave. W. & S. per pers. 1000 US \$	Ave. gross prod. val/ pers. 1000 US \$	Ave. value added/gross prod. ratio (%)	2. Size groups by annual sales of production 1000 US \$:	No. of estab.	No. of empl.	Ave. W. & S. per pers. 1000 US \$	Ave. gross prod. val/ pers. 1000 US \$	Ave. value added/gross prod. ratio (%)
up to 19	472	2,068	1,599	10,737	57	up to 20	251	238	932	7,093	57
20 - 99	127	5,516	1,843	10,898	51	20 - 40	57	251	1,347	6,483	56
100 - 499	34	9,011	2,095	12,439	57	40 - 60	165	1,888	1,618	8,084	57
500 - 999	3	C	C	C	C	200 - 400	65	2,021	1,763	9,105	52
over 1,000	1	C	C	C	C	400 - 2,000	84	6,644	1,915	11,193	51
						over 2,000	15	5,573	2,241	14,946	57
TOTAL:	637	16,615	1,949	11,714	54	TOTAL:	637	16,615	1,949	11,714	54

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Engineering study	1. Technical and managerial personnel	4. Import and export transaction
2. Financial assistance	2. Industrial training	5. Administration of foreign labour
3. Industrial services	3. Technical consultancy	
4. Equipment supply, installation & maintenance	7. Technical consultancy	

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects
				No information available.

XII. SUPPLEMENTS & NOTES

Contract and commission work:

The enterprise performed commission work for a subsidiary company. The commission received for mixing and packaging of insecticides amounted to US \$ 33,000.

Bottlenecks in the plant:

Several machines caused severe bottlenecks which, however, could be abolished due to rationalisation of the production process. Therefore, the company had sometimes to operate on short-term basis which was partly responsible for the 1967 loss of US \$ 189,000.

Current problems:

Since imported matches are more or less dumped on the market, the company could not recover its costs of production. In the future more emphasis will be put on the other products and new ones.

Inventories policy:

On the average the value of finished products in stock amounts to 24% of the total value of production.

Training courses:

The company sends some of its technical and commercial employees to advanced training courses. Frequently machine suppliers offer courses to acquaint operatives with machinery which their company is going to buy.

Governmental policies:

The government subsidises exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

Major Products: Prepared organic compounds to be used as a base for pharmaceutical products.

Annual capacity output is 50,000 kg per year on one-shift operation.

Reporting Unit: A small, very modern establishment which is independent as a productive and accounting unit but linked to an industrial group which handles most of administrative work, all basic research, and most sales.

Current value of total assets about US \$ 1,000,000 and 53 employees as of 1968.

I. FIXED CAPITAL ASSETS

(End of 1968)	Year of installation	Orig. purchase value (1000 US \$)	Replacement value (1000 US \$)
1. Primary process equipment			
TOTAL	1967	450	(*)
- Process equipment		400	(*)
- Hand tools & apparatuses			
- Cost of installation			
2. Primary industrial building		320	(*)
TOTAL	1967	320	
(total floor space: .. m ²)		320	
3. Auxiliary facilities		120	(*)
TOTAL	1967	120	
- Water, steam, electricity, cooling & storing		160	
- Transportation facilities			
- Administrative facilities		30	
- Laboratory facilities			
TOTAL PHYSICAL FIXED CAPITAL ASSETS		990	(*)
(including land):			
4. Other fixed capital assets		40	..
TOTAL		40	..
- Land (total acreage: 4,500 m ²)		40	..

(*) Replacement value is estimated to equal original purchase price.

Type of process equipment (Principal equipment only)	Supplier country	Year of installation	Orig. purchase value (US \$)	Replacement value (US \$)
Reaction-type boilers stainless steel, capacity 5,000 liters	2		14,500	
Reaction-type boilers stainless steel, capacity 2,000 liters	4		9,500	
Reaction-type boilers stainless steel, capacity 1,000 liters	6	1967	7,200	(*)
Reaction-type boilers lined, capacity 800 liters	3		6,400	
Reaction-type boilers lined, capacity 2,000 liters	3		11,000	
Centrifugal drying machines, 8 diameter 1,250 mm	8		13,000	
Hot air driers	4		8,000	
Rectification columns	2		9,500	
Principal other equipment:				
Steam generator with water pipes of 5,500 kg/hr (capacity: 15 atmospheres of saturated steam)	1		16,000	
Refrigerating compressor (capacity 90,000 refrigeration units/hr)	1		6,500	
Bridge crane (for maintenance purposes)	1		4,500	
Water pumps (1,700 liters/minute)	2		5,800	
Electrical transformers 20,000 V - 380 V - of 160 kVA	3		..	
(*) Replacement value is estimated to equal original purchase price.				

CAPACITY POWER: Process equipment Electric motors:	Generating equipment: Installed capacity:
350 kW	480 kVA

EXTERNAL CONDITIONS:
Transport: Local, national, international, all excellent.
Utilities: Fair.
Community: Housing: relatively poor; schools, medical facilities: fair; recreation facilities: limited; utilities: fair.

II. INVENTORIES AND WORKING CAPITAL

(in 1000 US \$)

(End of 1968)	
1. Inventories	Avgd value
TOTAL	800
- Production materials	320
- Other input materials	480
- Work-in-process	
- Finished products	
2. Liquid assets	Avgd value
TOTAL	Not available
- Cash (hand/bank)	
- Market. sec. & bonds	
- Short-term investment	
- Prepaid expenses	
- Accounts receivable	

III. MANNING TABLE

(1968 average)	Number of persons			
	Total	1st shift A	2nd shift B	3rd shift A+B
ALL SHOPS & UNITS:	53	53	-	-
1. Primary operative shops	21	21	-	-
- Compounding shop	15	15	-	-
- Distilling shop	2	2	-	-
- Drying shop	2	2	-	-
- Supervisory staff for the above units	2	2	-	-
2. Auxiliary operative units	20	20	-	-
- Repair and maintenance	3	3	-	-
- Mechanical shop	-	-	-	-
- Utility control	5	5	-	-
- Product & material storage	5	5	-	-
- Off-site transport	-	-	-	-
- Guards, cleaners, etc.	5	5	-	-
- Others	2	2	-	-
3. Auxiliary non-operative units	12	12	-	-
- Production management	1	1	-	-
- Research & development	9	9	-	-
- Sales unit	-	-	-	-
- General administration	1	1	-	-
- Accounting	1	1	-	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day:	8.5 hours	Normal days/year:	260 days
Actual hours/year:	2,210 hours		

CAPACITY OF OPERATIVE SHOPS:

The plant has been very carefully balanced so that expansion will require an even increase of inputs throughout each of the four stages of production.

Absence rate:

Average daily rate: 5%.

Employee turnover rate:

Annual average turnover as % of total labour force: 10%.

IV. ANNUAL PRODUCTION

(1968) Products for group of products	Vr. of first prod.	Quantity produced	Normal output	Unit price on factory basis (\$)	Total production value (000 US \$)
	Unit	Output			
Heterocyclic compounds of "INDAZOL" base, produced in form of pharmaceutical salts, 2 types	1967	kg	20,000	30,000	(*) 1,200
Heterocyclic compounds of "OXAZOL" base, produced in form of pharmaceutical salts, 2 generic types	1967	kg	14,000	20,000	(*) 800
TOTAL VALUE OF PRODUCTION					2,000

(*) N.B.: Unit prices are not specified though simple division would yield one type of "unit price". The problem is that the "unit" as such would be meaningless. The establishment was unwilling to supply further description or price data, in the interest of avoiding possible revelation of the firm's identity.

Exports: Approximately US \$ 1,200,000 of annual production in 1968 was exported. Major buyers were West European or Japanese. Sales were also scattered, in a far lesser degree, over Latin America, East Europe, and several Asian countries. The U.S. market is yet to be tapped but the management is quite hopeful in this regard.

V. ANNUAL CONSUMPTION

(1968)	Quantity consumed	% imported	Total consumption value (000 US \$)
	Unit	Purchase	
1. Energy and water			
TOTAL:			33
- Electricity	000 Kwh	..	20
- Fuels (mainly liquid)		..	13
- Water	m³	10,900 (from own well)	-
2. Production materials			
TOTAL:			420
- Basic chemical compounds	t	100	420
3. Other direct costs			
TOTAL:			122

VI. VALUE ADDED

(1968)	(*) Value (000 US \$)
1. Wages & salaries	
- Employees in direct production (41 persons)	110
- Other employees (12 persons)	70
2. Other payments for employees	40
3. Annual depreciation	150
4. Rentals paid	160
5. Interest & royalties	-
6. Sales tax	-
7. Other Ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	500

(*) Very approximate estimates. ^{1,030} ~~1,030~~

VII. MONTHLY EARNING RATES

(End of 1968)	No. of per. empl.	Average earning rate(\$ monthly)
1. Local non-operatives		
TOTAL:	11	Min. 500 Max. -
- Managers	1	500
- Engineers	-	-
- Technicians	6	150 300
- Accountants	1	150
- Sales officers	-	-
- Other professional staff	-	-
- Clerks & typists	3	320 500
2. Local operatives		
TOTAL:	41	Min. Max.
- Supervisors	4	200 300
- Foremen	19	160 300
- Machine operators	-	-
- Craftsmen	-	-
- Truck drivers, (*)	8	160
- Other full-time operatives	5	120
- Unskilled & part-time operatives	5	100
(*) mechanics, and electricians.		
3. Foreign employees		
TOTAL:	-	-
4. Other materials & supplies		
TOTAL:	50	
- Packaging	10	
- Repair & maintenance	40	
- Non-factor service inputs	-	-
5. Business services purchased		
TOTAL:	65	
- Transport, storage & insurance	50	
- Communication, advertisements, etc.	15	
6. Basic research and administrative expenses performed by industrial group headquarters		
TOTAL:	280	
	970	

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1961) ISIC-code: (319)
Industry group: Manufacture of miscellaneous chemical

	(in US \$)				Labour payments/ value added/ total output ratio	Value
1. Size groups by number of persons employed:	Value added	Labour payments	Fixed invest- ment	Avr. No. of empl.		
up to 99	3,900	2,960	490	75.8	26.9	
100 - 499	4,800	3,320	615	69.3	34.2	
500 - 999	5,750	3,760	840	65.3	35.1	
1,000 - 4,999	6,750	3,560	1,400	52.6	34.7	
5,000 and more	6,850	3,820	1,450	55.8	42.7	
TOTAL	6,800	3,960	1,160	55.6	37.7	

Per Establishment in 000 of US \$

2. Size groups by number of persons employed:	Total output	Fixed invest- ment	Value added	Labour payments	Avr. No. of empl.
up to 99	985	33	265	201	68
100 - 499	3,060	135	1,060	130	220
500 - 999	10,900	555	3,800	2,480	660
1,000 - 4,999	36,800	2,650	12,800	6,730	1,090
5,000 and more	175,000	15,700	74,200	41,400	10,890
TOTAL	10,800	765	4,100	2,600	660

IX. SUPPLEMENTS

INDICATIVE COST SUPPLEMENT (*)

Item	Value (000 US \$)	Total (%)
A. Direct costs	820	41
Primary products	420	20.5
Other direct costs	420	20.5
B. Indirect costs	680	34
Administrative --> general costs	250	12.5
Research	120	9
Interest, royalties, etc.	250	12.5
C. Profits	500	25
TOTAL:	2,000	100

(*) Provided totally by management.

Major Products: Lubricating oils and greases.

Capable of producing annually 6,000 t of greases and 2,400 t of lubricating oils. Full-capacity output amounts to approximately US \$ 8 890,000.

Reporting Unit: A one-establishment enterprise; privately owned; production was started in 1938; since 1993 engaged in re-selling lubricants. 57 employees. Largest lubricant producing enterprise in the country. Unfavourably located. No licensed production and company-conducted research activity. 0% exports.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1000 US \$)	Book value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)		61	
TOTAL:	..	40	..
- Process equipment	..	21	..
- Hand tools & apparatuses	..		
2. Buildings		227	
TOTAL:	..	124	18
- Primary industrial buildings (total floor space: 4,600 m ²)	..	40	5
- Auxiliary buildings	..	6	5
- Warehouses	..	16	1
- Office administration buildings	..	41	30
3. Auxiliary facilities (excl. buildings)		78	
TOTAL:	..		
- Internal power equipment	..		
- Laboratory facilities	..	8	5
- Means of transportation	..	53	3
- Office equipment	..	17	1
TOTAL PHYSICAL FIXED ASSETS (excluding land):	..	366	
4. Other fixed capital assets		320	
TOTAL:	..	2	
- Land (total acreage: 22,000 m ²)	..	318	
- Land improvements (t.a. 13,600 ")	..		
- Others	..		

II. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1967 monthly average)

	Up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 360 US\$	over 360 US\$
1. Local non-operatives						
- Managers	-	-	-	-	1	1
- Engineers	-	-	-	1	-	-
- Technicians	-	-	-	1	-	-
- Accountants	-	-	1	-	-	-
- Sales officers	-	-	1	-	-	-
- Clerks and typists	3	2	-	1	-	-
- Supervisors	-	-	1	1	1	-
2. Local operatives						
- Supervisors (*)	-	-	-	-	-	-
- Foremen	-	2	-	-	-	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators	-	3	-	-	-	-
- Craftsmen	-	5	-	-	-	-
- Truck drivers	-	3	-	-	-	-
- Unskilled operatives	2	-	-	-	-	-
- Other full-time operatives	6	20	-	-	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

(*) Company considers supervisors as local non-operatives.

*NB. Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	excellent
	local and city	insignificant
Utilities:	electricity	excellent
	water	fair
	gas	insignificant
Community:	residence	poor (*)
	health and recreation	excellent
	education	poor (*)
Own Welfare Facilities:	-	

(*) Lack of vocational schools and housing.

III. INVENTORIES

(End of 1967)

	Annual value (1000 US \$)	Number of months
Inventories	106	
TOTAL:	79	2.5
- Production materials	79	
- Other input materials	-	-
- Work-in-process	-	-
- Finished products	27	0.5

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	Total
- Shift hours/day: (*)	10	-	-	hours
- Actual hours/year:	2,450	-	-	hours
- Actual days/year:	247	-	-	days

(*) Actual hours due to overtime, annual working time:

IV. MANNING TABLE

Number of persons

(31 December 1967)

	Total	Shift categories:			
		1st Shift	2nd Shift	3rd Shift	2nd & 3rd Shift
ALL SHOPS & UNITS:	27	15	42	-	-
1. Primary operative shops	39	3	11	24	-
- Manufacture of lubricants	39	3	11	24	-
2. Auxiliary operative units	7	1	6	-	-
- Repair & maintenance	3	1	2	-	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	-	-	-	-	-
- Utilities control	-	-	-	-	-
- Product & material storage	-	-	-	-	-
- Off-site transport	3	-	3	-	-
- Guards, cleaners, etc.	1	-	1	-	-
3. Auxiliary non-operative units	11	11	-	-	-
- Production management	2	2	-	-	-
- Research & development	1	1	-	-	-
- Sales unit	1	1	-	-	-
- Accounting	4	4	-	-	-
- General administration	3	3	-	-	-

V. ANNUAL PRODUCTION

(1967)

Product or group of products	Yr. of first prod.	Quantity produced Units	Quantity	Avg. unit price on factory KRS \$	Total output value 000 US \$
Lubricants:					
Lithium grease	1938	t	1,300		
Lime saponified grease	"	t	780		
Soda soap grease	"	t	390		
Aluminium saponified grease	"	t	400		
Other greases (e.g. for cables)	1957	t	650	127.2	665
Motor oils	1938	t	395		
Transmission lubricants	"	t	400		
Chain lubricants	"	t	390		
Other lubricants	"	t	520		
TOTAL VALUE OF PRODUCTION:				665	

VI. VALUE ADDED

(1967)

	Total value 000 US \$
1. Annual wages & salaries	153
- Operative workers (41 persons)	199
- Non-operative workers (16 persons)	54
2. Other payments for employees	30
3. Annual depreciation	65
- Machinery & equipment	50
- Buildings & other facilities	6
- Non-physical capital assets	9
4. Rentals paid	4
5. Interest & royalties	25
6. Sales tax	4
7. Other indirect business taxes	9
8. (-) Subsidies	-
9. Corporate income before tax	18
TOTAL VALUE ADDED:	308

DESCRIPTION OF MAJOR PRODUCTS:

Lime saponified grease: Lubricants have to be manufactured in accordance with specifications given by users concerning viscosity, solidification, flash point, dripping point, weight, colour and basis of grease.

Soda soap grease: Cup grease, water pump grease, high pressure grease, lubricating grease.

Aluminium saponified grease: Ball bearing grease, transmission grease.

Transmission lubricants: Alu grease.

Motor lubricants: of various SAE ratings.

Other oils: Premium motor oil (SAE 10 - 50), premium motor oil super (SAE 10 - 50), tractor oils (HD 20 - 50).

Products are packed in barrels (100 - 200 kg), hobbucks (25 - 100 kg) and cans (up to 20 kg). Short-term delivery.

MARKET ASPECTS:

Re-sellers:

See page 4/XII - Supplements.

Consumers of products:

Heavy metal working industry such as manufacturers of machinery, cars, combustion motors, cables, agricultural machinery. Motor car repair shops.

Sales organisation:

No own sales force. The 30 largest customers account for 90% of the total turnover.

Share in the domestic market:

Industrial lubricants: approximately 70%.

Export prices policy:

The separation of the European market into two large trading areas makes it very difficult for the company to sell its products to the block which it does not belong to.

EXPORT:

Total annual export: US \$ 40,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Cable grease	100%	-	-
Motor vehicle lubricants	100%	-	-

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)

	Quantity consumed Units	Quantity consumed Units	% import	Avg. import value (000 US \$)	Total consumption value 000 US \$
1. Energy and water					
TOTAL:					9
- Electricity	000 kWh	674	-	-	3
- Diesel oil and gasoline	t	45	-	-	4
- Water	m³	..	-	-	-
2. Production materials					204
TOTAL:					
- Mineral oil	t	..	6	13	132
- Additives	"	..	100	12	40
- Animal oils and greases	"	..	-	-	9
- Colophonium	"	..	80	7	26
- Chemicals	"	..	50	18	11
- Other raw materials	"	..	20	10	66
TOTAL VALUE OF CONSUMPTION:					357

3. Other materials & supplies

TOTAL:	
- Packaging material (barrels, cans, tins, cartons)	13
- Parts, supplies & services	2
- Other materials & supplies	2

4. Business services purchased

TOTAL:	
- Transportation, storage & insurance	47
- Communication, advertising & other business services	40

5. Work performed by subcontractors

TOTAL:	
	-

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1):	Number	Original Purchase Value (1000 US \$)	Book value (1000 US \$)	Av. age (yr)	Supplier Remarks	Supplier country	Daily running time	Details:	
								1. Purchased second-hand	2. Second hand
Rotary mixers, autoclaves	10	..	4	5	partial SC	Germany, F.R.	4 hrs	2 tons	
Stills, boiler plants (for lithium)	7	..	7	4	-	Switzerland	2.5 hrs	..	
Grease guns, rollers	10	..	1	4	-				
Bung manufacturing machines	5	..	2	14	-				
Other process equipment	3	..	17	4	-				
Boilers, heating plant	2	..	6	1	-				
Tanks for raw material (240,000 l)	..	..	3	..	-				
Tanks for motor fuel (354,000 l)									

CAPACITY POWER:

Process equipment:

- electric motors 440 kW

Generating equipment:

- installed capacity - kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Automation		C. medium standard		Automation	
		A. most advanced	B. considerably high standard	C. medium standard	D. apparently slow or today's standard	E. slow standard	F. non-existent
Extraction		B	II			4 - 6 charges /day	70%
Blending		C	II			4 - 6 charges /day	80%
Refinery (oils)		C	II			different sizes of charges	70%
Packing		C	II			..	70%

CAPACITY UTILIZATION:

Full-capacity output US \$ 850,000.

Current utilization: Based on 1-shift operation.

Major products for processing

up Approximate %

to 20 40 50 60 70 80 90 100

Lithium grease	x	
Lime皂性 grease		x
Soda soap grease	x	
Aluminum皂性 grease	x	
Other greases (e.g. for cables)	x	
Motor oil	x	
Transmission lubricants	x	
Chain lubricants	x	
Other lubricants	x	

IX. HISTORY & PLAN

1. Performance in the past:

Year:	1963	1964	1965	1966	1967	1968
Prod. sales (*)	390	66	7			
No. of persons (**) employed	71	14				
Total exports (1000 US \$)	1,070					
	1,200	76	18			
	1,460	79	40			
	1,510	82	46			

(*) including resales of motor fuel; (**) incl. personnel of gasoline station (resales)

2. Investments in the past:

From 1956 to 1967 :	970
	ix 1967 :

Type of investment:
Machinery and equipment;
primary and auxiliary production facilities; buildings, tank cars.

3. Future Plan:

From 1972 to 1975 :	..
	Expansion of machinery and equipment; rationalisation of product-mix.

No additional personnel required.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these nine groups are included in these underlined.

(1964)

Industry Petroleum refineries

(ISIC Code: 321)

1. Size groups by number of persons employed	No. of estab.	No. of comp.	Av. W. & S. per pers. (1000 US \$)	Av. gross prod. val./per pers. (1000 US \$)	Av. value added/gross prod. ratio (%)	2. Size groups by annual sales of production	No. of estab.	No. of comp.	Av. W. &. S. per pers. (1000 US \$)	Av. gross prod. val./per pers. (1000 US \$)	Av. value added/gross prod. ratio (%)
up to 19	12	63	1,960	14,374	56	up to 20	5	3	7,725	8,314	60
20 - 99	12	409	2,315	10,426	43	20 - 40	1	0	0	0	0
100 - 499	5	3,611	2,567	41,059	36	40 - 200	1	104	2,051	7,173	34
500 - 999	1	0	0	0	0	200 - 400	5	120	2,232	12,631	30
over 1,000	1	0	0	0	0	400 - 2,000	8	1,938	2,549	18,612	36
						over 2,000	4	0	0	0	0
TOTAL:	30	4,165	2,528	37,062	36	TOTAL:	30	4,165	2,528	37,061	36

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- 1 Engineering study
 - 2 Financial assistance
 - 3 Industrial services
 - 4 Equipment supply,
construction & maintenance
 - 5 Technical and managerial personnel
 - 6 Industrial training
 - 7 Technical consultancy
 - 8 Import and export assistance
 - 9 Admission of foreign labour

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of projects
1				Feasibility studies as well as engineering studies could be prepared for companies to produce greases and lubricating oils.
3				Know-how contracts could be provided for the production of some greases and lubricating oils.
5				Only available to a limited extent and on short-term basis.
7				Cost estimates prepared by producers of machinery and equipment could be checked and evaluated by reporting company.

XII. SUPPLEMENTS & NOTES

Depreciation policy:

The company applies both the straight-line and accelerated methods of depreciation.

Re-saling:

Gasoline and motor oils. Revenue in reporting year: US \$ 830,000 which amounts to about 35% of the company's total turnover.
 Own service and gasoline station, each engaging 7 operatives and 2 non-operatives. The Manning Table (item IV/page 1) as well as Value Added Table (item VI/page 2) have been reduced accordingly.

Working time:

In order to avoid a second shift for the time being company operates with rather large amount of overtime (15%).

Major Products: Window glass, tumblers, bottles, crystal ware, etc.

Annual output amounted to approximately US \$ 1.9 million on 3-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1938; wholly privately owned; no foreign capital participation; construction of the factory was started in 1938, trial production in 1939 and commercial production in 1944; the first profits were made in 1955, when the total output amounted to approximately US \$ 660,000; expansion possibilities are good. No exports.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1968 US \$)	Repos- ment value (1968 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	2,340	..	10
- Process equipment *	2,340	..	10
- Hand tools & apparatuses	-	-	-
2. Buildings	1,356	..	10
TOTAL	1,356	..	10
- Primary industrial buildings (total floor space: 18,380 m ²)	1,356	..	10
- Auxiliary buildings	-	-	-
- Warehouses	-	-	-
- Office administration buildings	-	-	-
- Housing	-	-	-
3. Auxiliary facilities (excl. buildings)	27	..	5.5
TOTAL	5	..	6
- Internal power equipment	5	..	6
- Laboratory facilities	-	-	-
- Means of transportation	22	..	5
- Office equipment	-	-	-
TOTAL PHYSICAL FIXED ASSETS (excluding land):	3,723	..	..
4. Other fixed capital assets	136	..	
TOTAL	136	..	
- Land (total acreage: 41,430 m ²)	136	..	
- Land improvements	-	-	
- Others	-	-	

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	fair
	local and city	excellent
Utilities:	electricity	fair
	water	fair
	gas	fair
Community:	residence	-
	health and recreation	-
	education	-
Own Welfare Facilities:	-	-

IX. INVENTORIES

(End of 1968)

	Actual value (1968 US \$)	Number of months
Inventories	351	
TOTAL:		
- Production materials	154	
- Other input materials	38	
- Work-in-process	20	
- Finished products	139	

(See Section XIII. for liquid assets and the desired working capital.)

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
- Shift hours/day:	8	8	8	hours
- Actual hours/year:	2,149	2,149	2,149	days
- Normal days/year:	307	307	307	days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

(1968 monthly average)

	US\$	US\$	US\$	US\$	US\$	US\$
1. Local non-operatives						
- Managers						..
- Engineers						-
- Technicians						-
- Accountants				120	-	200
- Sales officers				90	-	160
- Clerks and typists						90
- Others						65
2. Local operatives						
- Supervisors				110	-	130
- Foremen				130	-	145
- Skilled operatives }				100	-	105
- Machine operators						-
- Craftsmen				130	-	145
- Truck drivers				80	-	90
- Unskilled operatives				40	-	53
- Other full-time operatives				40	-	53
- Part-time operatives						-
3. Foreign employees						
- Managerial staff						-
- Technical staff						790
- Other skilled operatives						-
- Unskilled operatives						-

IV. MANNING TABLE

(Number of personnel)

(1968 average)

	Total	Shift categories			
		A	B	C	D
ALL SHOPS & UNITS:					
1. Primary operative shops	265	17	31	104	62
- All shops	265	17	31	104	62
2. Auxiliary operative units	67	4	55	4	4
- Repair & maintenance	13	2	11	-	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	6	1	5	-	-
- Utilities control	6	-	2	2	2
- Product & material storage	34	1	33	-	-
- Off-site transport	2	-	2	-	-
- Guards, cleaners, etc.	6	-	2	2	2
3. Auxiliary non-operative units	22	22	-	-	-
- Production management	1	1	-	-	-
- Research & development	1	1	-	-	-
- Sales unit	4	4	-	-	-
- Accounting	2	2	-	-	-
- General administration	6	6	-	-	-
- Others	8	8	-	-	-

V. ANNUAL PRODUCTION

(1968)

Products (group of products)	Vr. of prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (US \$)
Window glass	1954	m2	96,650	11	1,077
Glass and tumblers	1957	000 pcs	10,155	40	434
Bottles	1957	000 pcs	5,603	60	345
Cryetal wares	1964	000 pcs	51.7	1,300	68

TOTAL VALUE OF PRODUCTION: 1,924

DESCRIPTION OF MAJOR PRODUCTS:

VI. VALUE ADDED

(1968)

	Total value (US \$)
1. Annual wages & salaries	402
- Operative workers	312
- Non-operative workers	90
2. Other payments for employees	-
3. Annual depreciation	11
- Machinery & equipment	100
- Buildings & other facilities	162
- Non-physical capital assets	-
4. Rents paid	-
5. Interest & royalties	-
6. Sales tax *)	0.1
7. Other indirect business taxes	(15)
8. (-) Subsidies	-
9. Corporate income before tax	(-) 11
*) not included in the total	218

TOTAL VALUE ADDED: 582

MARKET ASPECTS:

Consumers of products:

Private persons and enterprises.

Sales organisation:

Central sales department in the capital, selling agencies in all provinces.

Extent of the market:

The enterprise is the only producer of glass in the country. A new glass factory is likely to be built in the near future to compete with this enterprise.

Share in the domestic market:

The enterprise holds a share of about 30%, the other 70% are imported products.

Prospects of exports:

Good prospects, but at prices lower than the current domestic prices.

EXPORT:

Total annual export: -

Major products	To Western countries	To Eastern countries	To Developing countries

VII. ANNUAL CONSUMPTION

(1968)

	Quantity consumed Unit	Quantity Unit	% Import	Avg. import unit price (US \$)	Total consumption value (US \$)
1. Energy and water					
TOTAL:					
- Electricity	000 kWh	617	-	-	261
- Gas oil	..	8,346	-	-	242
- Gas	000 m³	..	-	-	7
2. Production materials					
TOTAL:					393
- Silice	t	7,706	-	-	80
- Dolomite	t	1,755	-	-	13
- Lime	t	380	-	-	2
- Felspar	t	266	-	-	5
- Soda sulphate (salts)	t	301	-	-	15
- Carbonate	t	2,580	-	-	226
- Borax	t	30	-	-	7
- Nitrate	t	32	100	..	4
- Arsenic	t	22	100	..	6
- Selenium	kg	113	100	..	2
- Carbonate potasse	t	12	100	..	4
- Plum oxide	t	9	-	-	4
- Zinc oxide	kg	26	-	-	10
- Others	..	400	..	..	15

	Total consumption value (US \$)
3. Other materials & supplies	386
TOTAL:	119
- Packaging material	-
- Parts, supplies & services	4
- Other materials & supplies	243

4. Business services purchased

	Total value (US \$)
TOTAL:	0.5
- Transportation, storage & insurance	0.5
- Communications, advertising & other business services	1

5. Work performed by subcontractors

	Total value (US \$)
TOTAL:	-

TOTAL VALUE OF CONSUMPTION: 142

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (N.1.1):

Original Producer	Refiner	Av. Value	Av. Prod.	Av. Prod.	Refiner
		1000 US \$	1000 US \$	1000 US \$	

Brackets:
 A1: Purchased second-hand
 C1: Other
 R: Rental
 SC: Self-produced

Remarks: Further details:

The entire equipment was supplied by U.K.

and Federal Republic of Germany.

CAPACITY POWER:

Process equipment:

-- electric motors ... kW

Generating equipment:

- nominal installed capacity 2,120 kVA
- actual production in 1968 800 kWh

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops

Kind of process involved

Mechanization:
 A: most advanced
 B: considerably high standard
 C: moderate standard
 D: appreciably short of today's standard
 E: others outlined

Machine.

Automation:
 I: fully automated
 II: semi-automated
 III: non-automated

Further details:

Glass processing shop

C III

Crystal shop

B II

CAPACITY UTILIZATION:

Full-capacity output: US \$ 2,000,000.

Current utilization:

Major products for processes

up 20 40 60 80 70 90 100

The actual over-all capacity utilization

rate is considered to be about 96%.

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963
 1964
 1965
 1966
 1967
 1968

Total output (1000 US \$)	No. of persons employed
1,190	350
1,330	350
1,440	350
1,130	350
1,950	364
1,920	354

Total exports (1000 US \$)
-

2. Investments in the past:

1962 : 660
 1968 : 660

Approximate amount (1000 US \$)
Machinery and building
Machinery

Type of investment
Machinery and building
Machinery

3. Future Plan:

From 19 ... to 19 ... :

-

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1967)

Industry Manufacture of glass and glass products (ISIC Co. 332)

1. Size groups by number
of persons employed:
up to

No. of
establs.
No. of
empl.

Ave.
W. & L.
per pers.
(US \$)

Ave. gross
prod. val/
per pers.
(US \$)

Ave. size
added net
prod. val/
(US \$)

2. Size groups by
annual value of
production
(1000 US \$):
up to

No. of
establs.
No. of
empl.

Ave.
W. & L.
per pers.
(US \$)

Ave. gross
prod. val/
per pers.
(US \$)

Ave. value
added net
prod. val/
(US \$)

(No comparable enterprise in this particular branch of industry yet.)

TOTAL: _____

TOTAL: _____

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service:		
1 Engineering roads	5 Technical and managerial personnel	8 Import and export market rate
2 Export of commerce	6 Industrial training	9 Administration of foreign labour
3 Industrial services	7 Technical consultancy	
4 Equipment supply, installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of service	Country or region	No. of projects	Field of industry	Description of project

XII. SUPPLEMENTS & NOTES

Governmental policies:

Government imposes high import duties. Raw materials may only be imported from certain countries at high prices; could be imported from other countries at lower prices.

Commission work:

Bottles to the amount of US \$ 2,100 were manufactured for one contracting firm on a commission basis. The contract was based on short-term agreements.

Labour training:

On-job training is currently in operation.

Depreciation policy:

The following depreciation rates are applied: Machinery 10%, buildings 10%, laboratory facilities 2%. (The depreciated book value of machinery is already less than 1/2 of the original purchase value shown in Section I.)

Liquid assets:	000 US \$
- Cash on hand and in bank	33
- Marketable securities and bonds	66
- Accounts receivable from delivery of goods and services	16
- Other accounts receivable	12
Total average liquid assets	127

Required working capital:	000 US \$	Equivalent number of months
- Production materials	33	1
- Other materials and supplies	33	1
- Finished products	12	1
- Wages for primary operative workers	27	1
- Other wages and salaries	6	1
- Training costs	-	-
- Administrative costs, sales costs and contingencies	0.1	1
Total desired working capital	11	1

Major Products:

Bricks and other clay products for construction. Annual capacity output is 15,600 t on a 3-shift operation.

Reporting Unit:

A one-establishment enterprise founded in 1959. Private corporation; foreign capital participation 49%.

I. FIXED CAPITAL ASSETS

(End of 1966)	Year of installation	Orig. purchase value (1000 US \$)	Replacement value (1000 US \$)
1. Primary process equipment			
TOTAL		966	..
- Process equipment		958	
- Hand tools & apparatuses	1960-66	8	..
- Cost of installation (incl. in process equip.)			
2. Primary industrial building		1966	248
TOTAL		248	..
(total floor space: 11448 m ²)		248	..
3. Auxiliary facilities		105	..
TOTAL		105	..
- Water, steam, electricity, cooling & storing & railroad spurs in process		219	
- Transportation facilities		32	..
- Administrative facilities		54	
- Laboratory facilities		-	
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):		1,519	..
4. Other fixed capital assets		176	..
TOTAL		176	..
- Land (total acreage: 26,040 m ²)		176	..
DETAIL OF PROCESS EQUIPMENT (incl. Supplier country)	Year of installation	Orig. purchase value (1000 US \$)	Replacement value (1000 US \$)
- Mills	U.S.A.	1960	9.6
- Elevators		1960-66	50.0
- Sifters	"	"	32.4
- Hoppers	(18)	"	57.6
- Mixers	(4)	"	9.0
- Extruder	(1)	1960	15.2
- Presses	(8)	1960-66	113.6
- Tunnel kilns	(3)	"	528.0
- Electric substations	(2)	"	42.4

HISTORY OF INVESTMENT:

The construction of the factory was first started in 1959. The first commercial production started in 1959 and the production proved profitable already in 1959. The following amounts were invested for expansion of clay manufactures:

1960	US \$ 240,000
1961	" " 132,000
1965	" " 132,000
1966	" " 643,000

II. INVENTORIES AND WORKING CAPITAL

(End of 1966)	In 1000 US \$)		
1. Inventories	<u>Actual value</u>	2. Liquid assets	
TOTAL	709	TOTAL	381
- Production materials	346	- Cash (hand/bank)	11
- Other input materials	106	- Market. sec. & bonds	12
- Work-in-process	36	- Short-term investment	15
- Finished products	221	- Prepaid expenses	101
		- Accounts receivable	242
3. Desired working capital	<u>Number of months</u>	<u>Value</u>	
TOTAL		132?	
- Production materials	6	4/4	
- Other input materials	4.5	32	
- Finished products	2	360	
- Wages & salaries	1.5	35	
- Other special items	2.5	431	

III. MANNING TABLE

(1966 average)	Number of persons		A = Number operations		B = Other operations	
	Total		1st shift	2nd shift	3rd shift	
ALL SHOPS & UNITS:						
1. Primary operative shops	259		132		63	64
TOTAL	127		17	26	16	26
- Milling department	30		1	9	1	9
- Presses	75		8	17	8	17
- Furnace	22		8	-	7	-
2. Auxiliary operative units	51		22		14	15
- Repair and maintenance	15		5		5	5
- Mechanical shop	15		5		5	5
- Utilities control	-		-		-	-
- Product & material storage	-		-		-	-
- Off-site transport	7		7		-	-
- Guards, cleaners, etc.	4		1		1	2
- Quality control	10		4		3	3
3. Auxiliary non-operative units	81		67		7	7
- Production management	29		15		7	7
- Research & development	5		5		-	-
- Sales & technical unit	20		20		-	-
- General administration	21		21		-	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day:	7.5	hours	Normal days/year:	305	days
Actual hours/year:	2,135	hours			

CAPACITY OF OPERATIVE SHOPS:

"Nominal" processing capacity of the milling department where grinding is done is 8 tons per hour. But actual processing capacity is no more than 2.5 to 3 tons, depending on the humidity of primary materials.

Moderate automation and mechanization.

Advantages connected with foreign capital participation

The foreign affiliated company provides managerial personnel as required, technical advice on equipment, know-how, acquisition of important (locally unavailable) materials, etc. Also, a significant portion of the output is marketed through commercial network of the foreign affiliate.

CAPACITY POWER:

Process equipment:		Generating equipment:	
- Electric motor:	323	kW	- kVA
- Tunnel kilns (3)	346	"	

EXTERNAL CONDITIONS:

Transport: Long distance and local area, excellent.

Utilities: Electricity and gas excellent; water, fair.

Community: Residential, excellent; health and recreational, educational fair.

IV. ANNUAL PRODUCTION

(1965)

Product (or group of products) *

- Bricks and other clay products (refractories)

- Specialities of clay (mortars, concrete, refractories, plastic refractories, etc.)

Yr. of first prod.	Quantity produced		Nominal capacity/ output	Unit price in factory (US \$)	Total production value (000 US \$)
	Unit	Output			
1959	tons	10,250	12,000	140.2	1,444
1960	"	2,760	3,600	100.00	282

TOTAL VALUE OF PRODUCTION: 1,472

* 3 quality groups of bricks, (medium, high and superior) can be distinguished. Also a great variety of different forms is produced, e.g. right-angled, wedge-shaped, semi-circular ones, etc. Refractories are also produced in a variety of forms and sizes. Plastic refractories are extruded, mouldable plastic clay blocks. The walls or sections of a furnace constructed with this plastic clay acquires the desired property of mechanical resistance when subjected to adequate heating.

** Nominal capacity output is based on 3 shift operation for 305 working days per year; interruptions only occur in the tunnel kiln operation.

CAPACITY UTILIZATION:

Slightly underutilized but satisfactory.

VI. VALUE ADDED

(1965)

1. Wages & salaries

- Employees in direct production (70 persons)

- Other employees (84 persons)

2. Other payments for employees

3. Annual depreciation

4. Rentals paid

5. Interest & royalties

6. Sales tax (not incl. in R&D)

7. Other ind. bus. taxes

8. (-) Subsidies

9. Corporate income before tax

Value (000 US \$)

110

170

13

14

17

14

13

150

VII. MONTHLY EARNING RATES

(End of 1965)

1. Local non-operatives

TOTAL

No. of empl.	Average earning rate US \$
24	confidential
- Managers	1
- Engineers	14
- Technicians	7
- Accountants	4
- Sales officers	1
- Other professional staff	43
- Clerks & typists	15

2. Local operatives

TOTAL

No. of empl.	Average earning rate US \$
160	confidential
- Supervisors	1
- Foremen	12
- Machine operators	100
- Craftsmen	19
- Truck drivers	7
- Other full-time operatives	9
- Unskilled & part-time operatives	6

3. Foreign employees

TOTAL

No. of empl.	Average earning rate US \$
1	confidential

V. ANNUAL CONSUMPTION

(1965)

1. Energy and water

TOTAL:

				Total consumption value (000 US \$)	
	Unit	Purchase	% imported	Tariff rate	
- Electricity	000 Kwh	1,280	-	-	26
- Gas and lubricants	000 m ³	5,100	-	-	38

2. Production materials

TOTAL:

				Total consumption value (000 US \$)	
	Unit	Purchase	% imported	Tariff rate	
- Kaolin	tons	1,750	100	-	63
- Flint clay	"	2,600	100	-	173
- Plastic loam	"	3,900	-	-	114
- Calcined material	"	4,650	-	-	213
- Bauxite	"	2,200	100	-	132
- Kaolin	"	700	-	-	8
- Miscellaneous	"	2,800	50	-	246

3. Other materials & supplies

TOTAL:

No. of empl.	Total consumption value (000 US \$)
86	86

4. Business services purchased

TOTAL:

No. of empl.	Total consumption value (000 US \$)
142	142

5. Work performed by sub-contractors

TOTAL:

No. of empl.	Total consumption value (000 US \$)
1,241	1,241

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group: Manufacture of structural clay products (IMC: 331)

1. Size groups by number of persons employed

Number of persons employed	Number of establishments	Number of employees	Avg. per estab.	Avg. per pers.	Avg. exp. pers. prod. ratio (%)
up to 5	5	1,446	4,651	154	577
6 - 25	391	3,200	296	797	119
26 - 100	27	1,431	713	2,425	115
over 100	10	2,601	1,730	10,997	105

TOTAL 1,874 11,863 604 3,140 97

2. Size groups by value of annual production (000 US \$)

Value of annual prod. (000 US \$)	Number of estab.	Value of annual prod. (000 US \$)	Number of estab.	Avg. exp. pers. prod. ratio (%)
up to 2	2	1,877	5,040	58
2 - 40	796	4,631	292	918
40 - 120	18	769	540	45
120 - 240	5	478	732	1,693
over 240	14	2,665	1,788	114

TOTAL 2,710 13,583 526 2,790 96

IX. SUPPLEMENTS

FUTURE PLAN:

Within a period of 3 years approx. US \$ 500,000 will be invested for the expansion of production of structural clay products. Less personnel will then be employed due to increased automation.

GOVERNMENT POLICIES:

No specific comments.

* Capital is defined as physical capital assets.

Major Products: Flat glass, flat and curved wind screens for cars, mirrors and others. Capable of producing annually about 7,500,000 m² (of which 300,000 m² automotive glass) on 2-shift (except furnace) operation.

Reporting Unit: A one-establishment enterprise, founded in 1955. Private corporation; proportion of foreign capital in total capital stock 30%.

I. FIXED CAPITAL ASSETS		
(End of 1966)	Year of installation	Orig. purchase value 1000 US \$
1. Primary process equipment		Replacement value 1000 US \$
TOTAL		6,736 ..
- Process equipment		5,760 ..
- Hand tools & apparatuses		- ..
- Cost of installation		960 ..
2. Primary industrial building		980 ..
TOTAL		980 ..
(total floor space: 42,000 m ²)		980 ..
3. Auxiliary facilities		416 ..
TOTAL		416 ..
- Water, steam, electricity, cooling & storing		400 ..
- Transportation facilities		16 ..
- Administrative facilities		- ..
- Laboratory facilities		- ..
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land)		8,132 ..
4. Other fixed capital assets		121 ..
TOTAL		121 ..
- Land (total acreage: 151,000 m ²)		121 ..
DETAIL OF PROCESS EQUIPMENT (no.):	Importer country	Year of installation
- Melting furnaces	2 Mexico, USA	1956-59
- Cooling system	1 " 1956-59	
- Feeding and weighing system	USA	1956-59
- Instrumentation	Mexico, USA	1956-59
- Hardening furnaces	2 Mexico, USA	1959-61
- Workshop equipment	USA	1956-66
- Auxiliary equipment	USA	1956-66

HISTORY OF INVESTMENT:

1959	approx.	2,960	New furnace
1959	"	1,280	Expansion of the finishing department
1961	"	160	Introduction of mirror production
1962	"	640	Expansion of automotive glass production
1965-68	"	21,600	Production of crystal glass

CAPACITY POWER:	Generating equipment:
Process equipment: Electric motor: 5,000 kW	Installed capacity: - kVA

EXTERNAL CONDITIONS:

Transport: Long distance, fair; local area, excellent.

Utilities: Electricity, fair; gas, excellent.

Community: Residential, health and recreational, educational, fair.

II. INVENTORIES AND WORKING CAPITAL

in 1000 US \$		
(End of 1966)		
1. Inventories	Actual value	2. Liquid assets
TOTAL	3,069	TOTAL
- Production materials	2,387	- Cash (hand/bank) 6
- Other input materials	-	- Market, sec. & bonds 9
- Work-in-process	38	- Short-term investment -
- Finished products	644	- Prepaid expenses -
		- Accounts receivable 568
3. Desired working capital	Number of months	Value
TOTAL	-	-
- Production materials		
- Other input materials		
- Finished products		
- Wages & salaries		
- Other special items		

III. MANNING TABLE

(1966 average)	Number of persons		A = Regular operation		B = Other operation	
	Total	A	B	A+B	A+B	A+B
ALL SHOPS & UNITS:						
1. Primary operative shops	870	712	112	46		
	328	220	-	86	22	
- Fabrication	146	87	-	37	22	
- Processing	98	49	-	49	-	
- Finishing	84	84	-	-	-	
2. Auxiliary operative units	292	262	15	15		
- Repair and maintenance	96	96	-	-		
- Mechanical shop	-	-	-	-		
- Utilities control	48	48	-	-		
- Product & material storage	40	40	-	-		
- Off-site transport	45	15	15	15		
- Guards, cleaners, etc.	-	-	-	-		
- Auxiliary workers	63	63	-	-		
3. Auxiliary non-operative units	250	230	11	9		
- Production management	42	22	11	9		
- Research & development	4	4	-	-		
- Sales unit	-	-	-	-		
- General administration	204	204	-	-		

WORKING TIME PER OPERATIVE WORKER:

Normal hour/day:	8 hours	Normal days/year:	304 days
Actual hours/year:	2,432 hours		

CAPACITY OF OPERATIVE SHOPS:

The capacities of different departments are considered to be well balanced. Automation and mechanisation is moderate.

Technical advantages connected with the participation of foreign capital:

- Granting of technical assistance
- Provision of designs for equipment
- Provision of patents and "know-how"
- Large market for products.

There are, however, no particular advantages in connection with the acquisition of production materials.

IV. ANNUAL PRODUCTION

(1966)	Quantity produced	Nominal capacity output	Unit (*) price at factory (US \$)	Total production value (1000 US \$)
	Vt. of first prod.	Unit	Output	Unit cost Total cost
- Flat glass	1956	000 m ²	5,583	7,200
- Flat glass for cars	1959	" "	225	260
- Curved glass for cars	1962	" "	42	42
- Mirrors and others	1961	" "	not produced in 1966	
				6,007
				=====
				TOTAL VALUE OF PRODUCTION (aggregates of selling values)
				6,007
				=====

(*) The average production cost per m² is shown, instead of the selling price. The latter varies greatly according to shapes, sizes and other specifications which do not affect much the production cost.

EXPORTS:

Part of flat glass is exported at the price of US \$ 0.68 per unit. There are no specific collateral benefits connected with exports.

COMPETING IMPORTS:

No flat glass (for general construction purposes) is imported. Flat wind screens for cars are imported at the price of US \$ 4.- per unit and curved wind screens are imported at the price of US \$ 5.2 per unit.

CAPACITY UTILIZATION:

The existing capacity can be considered as being fully utilized. The "Nominal capacity output" assumes continual production for 365 days (partial 2 shifts, i.e. 3 shifts for furnace operation which is actually not feasible. Normally there are a few weeks or months of stoppage period for maintenance and renovation work.

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed	Total consumption value			
	Unit	Purchase	% Imported	Tariff rate	1000 US \$
TOTAL:					
- Electricity	000 Kwh	9,050		137	
- Natural gas		..		355	
2. Production materials					
TOTAL:					
- Silica sand	000 m ³	21,710		462	
- Crushed glass	" "	4,547		147	
- Feldspar	" "	853		39	
- Soda ash	" "	7,077		373	
- Dolomite	" "	6,485		51	
- Sodium sulphate	" "	104		62	
- Magnesite	" "	8		4	
- Charcoal	" "	63		4	
				1,144	

VII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965) Industry group: Manufacture of glass and glass products (IMC: 332)					
1. Size groups by number of persons employed	Number of units	Number of employees	Avg. W. & S. per pers.	Avg. gross prod. per pers.	Avg. exp. gross prod. ratio* (%)
up to 5	81	241	352	1,497	35
over 5	99	16,679	1,425	5,733	102
	TOTAL	180	16,920	1,409	5,672
2. Size groups by size of annual production 1000 US \$:					
up to 40	205	976	379	1,460	58
40 - 120	35	1,218	793	2,272	78
over 120	39	14,850	1,515	11,577	55
	TOTAL	279	17,044	1,399	5,640

* Capital is defined as physical capital assets

VI. VALUE ADDED

(1966)	Value (1000 US \$)
1. Wages & salaries	
- Employees in direct production	1,117
(563 persons)	
- Other employees	717
(307 persons)	
2. Other payments for employees	274
3. Annual depreciation	728
4. Rentals paid	-
5. Interest & royalties	201
6. Sales tax (not incl. in TOTAL)	(199)
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	643
	3,680
	=====

VII. MONTHLY EARNING RATES

(End of 1966)	No. of emp.	Average earning per. pers. 1000 US \$
1. Local non-operatives		
TOTAL:	86	390
- Managers	8	800
- Engineers	45	480
- Technicians	-	-
- Accountants	3	400
- Sales officers	-	-
- Other professional staff	-	-
- Clerks & typists	30	144
2. Local operatives		
TOTAL:	..	..
- Supervisors	1	480
- Foremen	14	200
- Machine operators	27	144
- Craftsmen	48	144
- Truck drivers	6	120
- Other full-time operatives	..	80
- Unskilled & part-time operatives	-	-
3. Foreign employees		
TOTAL:	-	-
Total consumption value 1000 US \$		
		556
3. Other materials & supplies		
TOTAL:		
- Packagings		139
- Repair & maintenance		417
- Non-factor service inputs		-
4. Business services purchased		
TOTAL:		135
- Transport, storage & insurance		-
- Communication, advertisement, etc.		135
5. Work performed by sub-contractors		
TOTAL:		-
		2,327
		=====

IX. SUPPLEMENTS

Future plan:

In 1971, approx. US \$ 2.8 million will be invested for general expansion of the establishment. Additional 110 persons will then be employed. (40 persons on the 1st shift, 35 on the 2nd shift and 35 on the 3rd shift).

Government policies:

It is desired to establish better political relations with the regional common market, in order to exploit the export potentials.

Major Products: Glassware (containers). Capable of producing annually about 55,000 t on 3-shift operation.

Reporting Unit: A two-establishment enterprise, originally founded in 1935, expanded in 1954 and 1963; privately owned. No participation of foreign capital.

I. FIXED CAPITAL ASSETS		Year of installa- tion	Orig. pur- chase value (1000 US \$)	Replacement value (1000 US \$)
1. Primary process equipment				
TOTAL			3,636	..
- Process equipment			2,796	
- Hand tools & apparatuses			200	
- Cost of installation			640	..
2. Primary industrial building				
TOTAL			280	..
(total floor space: 6,000 m ²)			280	..
3. Auxiliary facilities			86	..
TOTAL				
- Water, steam, electricity, cooling & storing			38	
- Transportation facilities			48	..
- Administrative facilities				
- Laboratory facilities				
TOTAL PHYSICAL FIXED CAPITAL ASSETS			4,002	..
Including land:		
4. Other fixed capital assets			560	..
TOTAL			560	..
- Land (total acreage: 14,000 m ²)			560	..

DETAIL OF PROCESS EQUIPMENT (no.):	Supplier country	Year of installa- tion	Orig. pur- chase value (1000 US \$)	Replacement value (1000 US \$)
Handling of raw material and furnaces department			776	
Feeding and forming equipment		mostly	1,096	
Tempering equipment		1959	336	..
Charge for tempering equipment		and	68	
Decoration department		1963	336	
Moulding equipment			184	

HISTORY OF INVESTMENT

Construction of one of the two factories originally in 1935. Following investments were made for expansion purposes: (in 1000 US \$)

1935	approx.	16
1950	"	500
1954	"	1,200
1963	"	2,800

GENERATING POWER: Present equipment Electric motor	KW	Generating equipment: Installed capacity	EVA
INTERNAL CONDITIONS:			
Transport Long distance, local areas, fair.			
Utilities Electricity, poor; water and gas, excellent.			
Community Residential, health not conventional, educational, fair.			
*Incidents of power failures in the year of reference are estimated at 1000 h/yr.			

II. INVENTORIES AND WORKING CAPITAL

(End of 1966) (in 1000 US \$)		
1. Inventories	Actual value	2. Liquid assets
TOTAL:	664	Total:
- Production materials	132	- Cash (hand/bank)
- Other input materials	12	- Market. sec. & bonds
- Work-in-process	24	- Short-term investment
- Finished products	496	- Prepaid expenses
		- Accounts receivable
3. Desired working capital	Number of months	Value
TOTAL:		
- Production materials		
- Other input materials		
- Finished products		
- Wages & salaries		
- Other special items		

III. MANNING TABLE

(1966 average)	(number of persons)		A = Machine operators		B = Other operatives			
	Total		1st shift	A	2nd shift	A+B	3rd shift	A+B
ALL SHOPS & UNITS:	1,200		514		343		343	
1. Primary operative shops	. 611		217	-	197		197	
- Production material and composing department	100		40	-	30		30	
- Furnaces and smelting department	36		12	-	12		12	
- Forming department	229		79	-	75		75	
- Classification and packing department	246		86	-	80		80	
2. Auxiliary operative units	448		196		126		126	
- Repair and maintenance	51		18		18		18	
- Mechanical shop	46		16		15		15	
- Utilities control	-		-		-		-	
- Product & material storage	30		10		10		10	
- Off-sites transport	66		66		-		-	
- Guards, cleaners, etc.	7		3		2		2	
- Quality control	20		8		6		6	
- Bottle decoration	225		75		75		75	
3. Auxiliary non-operative units	141		101		20		20	
- Production management	30		30		-		-	
- Research & development	-		-		-		-	
- Sales unit	5		5		-		-	
- General administration	30		30		-		-	
- Others (general workers)	76		36		20		20	

WORKING TIME PER OPERATIVE WORKER:

Normal hour/day:	7.5 hours	Normal days/year:	295 days
Actual hour/year:	2,212 hours		

CAPACITY OF OPERATIVE SHOPS:

No special automation involved.

(This profile data covers the enterprise in its entirety since its two establishments do not have their own accounting systems.)

IV. ANNUAL PRODUCTION

(1966)

Products for group of products

	Vt. of first prod.	Quantity produced	Nominal capacity output	Unit price at factory US \$	Total production value 1000 US \$
	Unit	Unit	Output		
Glass ware (containers)	1935	t	55,700	55,000 -56,000	0.11/kg 6,152
TOTAL VALUE OF PRODUCTION					6,152

EXPORTS:

Part of glass ware is exported for US \$ 0.11/kg.

CAPACITY:

Despite some electric power failures in the area, the existing capacity is more than fully utilised. A new plant of a similar capacity is urgently needed.

VI. VALUE ADDED

(1966)

	Value 1000 US \$
1. Wages & salaries	
- Employees in direct production	917
(800 persons)	
- Other employees	460
(400 persons)	
2. Other payments for employees	172
3. Annual depreciation	424
4. Rentals paid	-
5. Interest & royalties	146
6. Sales tax (not incl. in TOTAL)	(192)
7. Other ind. bus. taxes	56
8. (-) Subsidies	-
9. Corporate income before tax	1,120
	3,724

VII. MONTHLY EARNING RATES

	No. of emp.	Average earning per. rate US \$
(End of 1966)		
1. Local non-operatives		
TOTAL:	47	..
- Managers	2	1,280
- Engineers	9	480 - 720
- Technicians	7	..
- Accountants	4	400 - 1,200
- Sales officers	5	400 - 1,600
- Other professional staff	10	240 - 900
- Clerks & typists	17	144 - 240
2. Local operatives		
TOTAL:	..	..
- Supervisors	-	..
- Foremen	12	320 - 480
- Machine operators	..	240 - 450
- Craftsmen	28	88 - 240
- Truck drivers	8	128
- Other full-time operatives	1,104	..
- Unskilled & part-time operatives	-	..
3. Foreign employees		
TOTAL:	1	1,440
- Engineers, trainers and other technical control staff	1	1,440

V. ANNUAL CONSUMPTIONS

(1966)

1. Energy and water

TOTAL:

	Quantity consumed		Total consumption value 1000 US \$	
	Unit	Purchase	% Imported	Tariff rate
- Electricity	000 kWh	15,440		
- Liquid fuels and lubricants	"	"	213	
- Gas	000 m ³	10,250	48	
- Water	000 m ³	2,000	616	
			16	
TOTAL:			893	

2. Production materials

TOTAL:

					Total consumption value 1000 US \$
- Silica sand	t	22,000	8	416	3,16
- Soda ash	"	8,700	-	466	
- Lime	"	5,800	-	51	
- Alumina	"	424	100	68	
- Borax	"	236	100	30	
- Sodium nitrate	"	247	100	21	
- Others	"	398	20	29	
TOTAL:			1,081		

3. Other materials & supplies

TOTAL:

	1000 US \$
- Packagings	192
- Repair & maintenance	177
- Non-factor service inputs	4

4. Business services purchased

TOTAL:

	1000 US \$
- Transport, storage & insurance	86
- Communication, advertisements, etc.	12

5. Work performed by sub-contractors

TOTAL:

	1000 US \$
-	2,448
	2,448

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group: Manufacture of glass and glass products (ISIC: 332)

1. Size groups by number of persons employed	Number of estab.	Number of emp.	Av. per emp.	Av. gross prod. val. per person	Av. exp. gross prod. ratio (%)
up to 5	81	241	352	1,497	35
over 5	99	16,679	1,425	5,733	102

TOTAL	180	16,920	1,409	5,672	102
2. Size groups by sales of annual production 1000 US \$:					
up to 40	205	976	379	1,460	58
40 - 120	35	1,218	793	2,272	78
over 120	39	14,850	1,515	11,577	55

TOTAL 279 17,044 1,399 5,040 102

IX. SUPPLEMENTS

Government policies:

A special 6% sales tax (on revenue) has recently been introduced on glass packagings (except for milk bottles and similar). This might affect the demand to some extent.

Importation of equipment requires cumbersome, time-consuming procedures, which makes it difficult to execute a necessary investment plan in time.

Future plan:

Within the period from 1968-1972, approx. US \$ 4 million will be invested for constructing a new plant. Additional 500-600 operatives will then be employed.

* Capital is defined as ploughed capital income.

Major Products: Bricks, ceramic tiles, stoneware and stove tiles.

Capable of producing annually 550,000 m³ of fire bricks and 190,000 m² of ceramic tiles based on 2-shift operation. Full-capacity output amounts to US \$ 11.6 million.

Reporting Unit: A 15-establishment enterprise, consisting of 12 brick and 3 stoneware manufacturing plants and a central office.

Joint stock company; founded in 1869. The company is partly owned by a semi-governmental bank. Although the company is very old, the machinery and equipment utilised meet modern standards. Shutting down of inefficient plants. Approx. 1,400 employees; largest clay products manufacturing company in the country; insignificant exports; insignificant licensed production; own research activities. This study covers all 15 manufacturing establishments.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	16,592	20,075 (**)	
- Process equipment	16,592	20,075	7
- Hand tools & apparatuses	..	..	7
2. Buildings	2,629	..	
TOTAL	2,629	..	
- Primary industrial buildings (total floor space: 63,000 m ²)	2,291	..	7
- Auxiliary buildings	261	..	20
- Warehouses	-	-	-
- Office administration buildings	77	661	100
- Housing (self constructed)	..	3,875	100
3. Auxiliary facilities (excl. buildings)	699	..	
TOTAL	699	..	
- Internal power equipment	-	-	-
- Laboratory facilities	64	..	5
- Means of transportation	84	..	3
- Office equipment	551	..	5
TOTAL PHYSICAL FIXED ASSETS (excluding land)	19,920	..	
4. Other fixed capital assets	949	..	
TOTAL	949	..	
- Land (total acreage: 4,963,231 m ²)	125	..	-
- Land improvements (t.scr. 296,769")	24	..	-
- Others	800	..	10

(**) Including primary industrial buildings as well as auxiliary buildings.

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

up to	over				
US\$	US\$	US\$	US\$	US\$	US\$

1. Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists

2. Local operatives

- Supervisors
- Foremen
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

No data available for the 15-establishment enterprise. For details of one single establishment see

MIDDLE EUROPE : 331 - (2).

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories	2,874	
TOTAL	2,874	
- Production materials	295	3.7
- Other input materials	292	2.7
- Work-in-process	125	-
- Finished products	2,162	3

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
				days
- Shift hours/day	9	9	9	hours
Actual hours/year	1,935	1,935	1,935	days
Actual day/year	215	215	215	

IV. MANNING TABLE

(Number of persons)

(1967 average)

Skill categories: A: Supervisory staff and foremen (for all shifts)
B: Skilled operatives
C: Semi-skilled operatives (machine operators)
D: Unskilled operatives

ALL SHOPS & UNITS:

	Total	1st Shift			2nd Shift			3rd Shift		
		A	B	C	D	E	F	G	H	I
1. Primary operative shops	1,065	92	-	789	-	-	161	23	-	-
- Brick manufacturing departments	639	48	-	484	-	-	89	18	-	-
- Stoneware manufacturing departments (*)	426	44	-	305	-	-	72	5	-	-

2. Auxiliary operative units

	183	20	151	12	-
- Repair & maintenance	132	7	113	12	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	-	-	-	-	-
- Utilities control	12	12	-	-	-
- Product & material storage	15	1	14	-	-
- Off-site transport	6	-	6	-	-
- Guards, cleaners, etc.	18	-	18	-	-

3. Auxiliary non-operative units

	160	148	12	-	-
- Production management	26	26	-	-	-
- Research & development	28	16	12	-	-
- Sales unit	47	47	-	-	-
- Accounting	40	40	-	-	-
- General administration	19	19	-	-	-

(*) Tile production was discontinued in August 1967 since it could not be changed from seasonal to permanent operation.

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (8.1):

	Number	Original Purchase Value (\$100 US \$)	Replac- ement value (\$100 US \$)	Av. Age (yrs)	Supplier Remarks	Source: O: Purchased second-hand E: Second A: Self-manufactured	Year of instal- lation	Daily running time	Capacity output
Roller frames	4	23	25	5		Austria	1965	10 hrs.	50-150 kg paste per hr
Ball mills	4	9	12	1		FR.Germ.	1968	10 hrs.	1,000 kg/24-36 hrs
Dispersing machines	2	3	3	6		Austria	1962	3 hrs.	250 kg/hr
Dissolving machines	2	12	15	5		"	1968	5 hrs.	1,000 kg/hr
Stirring machines	11	3	5	5	SC	"	1964	6 hrs.	1,500 kg/hr
Filling machines	4	12	15	3		Italy	1965	6-8 hrs.	800-1,000 tins/hr
Concentration plants	3	12	15	10		FR.Germ.	1956	4-5 hrs.	300 kg/hr
Distilling plant for solvents	1	12	15	2		Switzerl.	1968	5 hrs.	60 l/hr
Others	20	52	63	..					
Stacker truck	1	12	14	1					
Tanks for solvents	16	58	77	5					
Scales	18	9	8	3					

CAPACITY POWER:

Process equipment:
- electric motors 410 kW

Generating equipment:
- installed capacity - EVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shop	Kind of process involved	Methodology: A: most advanced B: considerably high standard C: medium standard D: apparently short of industry's standard E: almost / no standard	Motors	Automs.	Further details:		Automation: I: fully automated II: non-automated
					Further details:	Further details:	
Oil and synthetic resin varnishes	Preparation - pre-dispersion - grinding replenishing - storing.	C	11				
Nitrogen varnishes	Moistening of nitrocellulose with non-solvents, addition of solvents, resin, softening agents and auxiliary materials - stirring - standardizing - control.	A	11				

CAPACITY UTILIZATION:
Full-capacity output: US \$ 1,500,000.

Current utilization:

Major products for processing	Up	Appropriate %	Up	Appropriate %	Up	Appropriate %	Up	Appropriate %
	to 30	40	50	60	70	80	90	100
Oil and synthetic resin varnishes	x							
Nitrogen varnishes	x							

The current rate of capacity utilization is mainly due to high demand for the products manufactured and a good supply of raw materials. Full-capacity output based on 1-shift operation can only be reached with 6 additional operatives and 2 additional non-operatives.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	1963	..
1964	700	65
1965	820	71
1966	990	74
1967	1,050	77
1968	1,250	99

Total output (\$100 US \$)	No. of persons employed	Total exports (\$100 US \$)
..	67	-
700	65	-
820	71	-
990	74	-
1,050	77	-
1,250	99	4

2. Investments in the past:

Approximate amount (\$100 US \$)	Type of investment
20	Varnish melting department.
30	Research laboratory for surface finishing of wood.
140	Primary industrial building.
60	Tanks, office buildings, warehouses.
230	Primary industrial building.

3. Future Plan:

From 1968 to 1969:	230	Construction of a warehouse, expansion and specialization of machinery and products. 2 more operatives and 4 more auxiliary operatives as well as non-operatives will have to be employed on the 1st shift.
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X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C - Confidential; figures of this size group are included in that underlined.

(1964)

Industry Paints and varnishes manufacturing

(SIC Code: 313-1)

No. of persons employed	No. of plants	No. of employees	Av. W. & L. per pers. (\$100 US \$)	Av. gross prod. val/ per pers. (\$100 US \$)	Av. value added/gross prod. ratio (%)	2. Size groups by annual sales of production (\$100 US \$):		Av. W. & L. per pers. (\$100 US \$)	Av. gross prod. val/ per pers. (\$100 US \$)	Av. value added/gross prod. ratio (%)	
						No. of plants	No. of employees				
up to 19	56	347	1,719	13,390	42	up to 20	18	12	609	14,022	44
20 - 99	29	1,184	2,047	11,649	45	20 - 40	8	17	1,400	13,661	48
100 - 499	10	1,489	2,221	14,629	45	40 - 200	23	251	1,606	9,598	45
500 - 999	-	-	-	-	-	200 - 400	18	477	1,840	9,869	45
over 1,000	-	-	-	-	-	400 - 2,000	24	2,263	2,216	14,474	44
						over 2,000	4 ↑	C	C	C	C
TOTAL:	95	3,020	2,095	13,313	45	TOTAL:	95	3,020	2,095	13,313	45

V. ANNUAL PRODUCTION

(1967)		Yr. of first prod.	Quantity produced	Avg. unit price ex factory (1000 US \$)	Total output value (1000 US \$)
Product or group of products	Unit		Quantity		
Fire bricks	t	03	546,000	0.03	7,333
Ceramic tiles	m ²	186,200	2.6	483	
Stoneware	t	29,760	73.8	2,197	
Stove tiles	m ²	29,000	0.4	422	
Others	m ²	4,297	1.9	8	
TOTAL VALUE OF PRODUCTION:				10,843	

VI. VALUE ADDED

(1967)		Total value (1000 US \$)
1. Annual wages & salaries		3,643
- Operative workers (1,148 personnel)	2,777	
- Non-operative workers (260 personnel)	866	
2. Other payments for employees		787
- Machinery & equipment	816	1,118
- Buildings & other facilities	293	
- Non-physical capital assets	4	
3. Annual depreciation		60
4. Rents paid		455
5. Interest & royalties		537
6. Sales tax		117
7. Other indirect business taxes (*)		-
8. (-) Subsidies		444
9. Corporate income before tax		
(*) Land tax, car tax, etc.		
TOTAL VALUE ADDED:		7,161

DESCRIPTION OF MAJOR PRODUCTS:

- Bricks: Solid bricks, hollow bricks, bricks for ceilings, roofing tiles.
Delivery: on pallets.
- Stoneware: Sewage pipes, agricultural stoneware.
Delivery: packed or unpacked.
- Stove tiles: Various shapes and colours.
Delivery: in boxes.

All products are produced in series (mass production) and can be delivered promptly.

MARKET ASPECTS:

Re-sales:

In order to complete its product-mix the company imports stoneware.

Consumers of products:

Bricks: construction firms. Stoneware: chemical and pharmaceutical industry.
Stove tiles: potters and stove-fitters. Ceramic tiles: tile layers.

Sales organization:

One central sales department (40 employees) which is divided according to product groups.
Joint advertising and public relations for all 15 establishments.

Extent of the market:

The sales radius approximates 150 km except for roof tiles, stoneware and stove tiles where it is much larger.

Share in the domestic market:

Bricks: 20% (excluding imports). Stoneware: 90%. Tiles: 50%.

Competition in the market: Increasing competition with substitutes
(concrete blocks, prefabricated elements, heaped concrete, etc.).

EXPORT: Insignificant.
Total annual export:

Major products	To Western countries	To Eastern countries	To Developing countries
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VII. ANNUAL CONSUMPTION

(1967)		Quantity consumed	Average import duties	Total consumption value (1000 US \$)	Total consumption value (1000 US \$)
	Unit	Quantity	% Import	(1000 US \$)	
1. Energy and water					
TOTAL:				1,322	
- Electricity	000 kWh	20,766		436	
- Pit-coal	t	2,655		42	
- Fuel oil	t	21,570		428	
- Gas	000 m ³	16,449		402	
- Water	000 m ³	256		14	
3. Other materials & supplies					
TOTAL:					834
- Packaging material and auxiliary material					337
- Parts, supplies & services					460
- Other materials & supplies					37
4. Business services purchased					
TOTAL:					569
- Transportation, storage & insurance					111
- Communication, advertising & other business services					458
5. Work performed by subcontractors					
TOTAL:					-
TOTAL VALUE OF CONSUMPTION:					3,682

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)	Number	Original Purchase Value 1000 US \$	Replace- ment value 1000 US \$	Av. Age (yrs)	Remarks	Supplier country	Year of instal- lation	Daily running time	Capacity output	Source:		
										A: Purchased manufac- tured abroad	B: Manufactured abroad	C: Self-manufac- tured
(as available)												
Chargers	12	77	..			Germany, F.R.	1963	16 hrs	390 m³/day			
Pug mills	8	234	..			Germany, F.R.	1963	16 hrs	390 m³/day			
Finishing rolls	12	77	..			Austria	1962	16 hrs	327 m³/day			
Round chargers	17	81	..			Germany, F.R.	1962	16 hrs	327 m³/day			
Mandrels	3	210	..			"	1962	..	1,000 m³/filling capacity			
Vacuum aggregates	11	156	..			"	1962	16 hrs	327 m³/day			
Tube extruding presses	5	104	..			"	1960	16 hrs	30 m³/day			
Transport wagons	8	39	..			"	1962	16 hrs	18,500 metric tons/day			
Chamber drying ovens	11	1,268	..			"	1960	24 hrs	40 t/day			
Tunnel furnaces	12	1,953	..			"	1962	24 hrs	(30 t dehydration) 218 t/day			
Conveyor belts	..	404	..									
Overhead tanks	4	109	..									
Cranes	14	857	..									
Diggers	13	78	..									

CAPACITY POWER:

Process equipment:

- electric motors kW 4,600

Generating equipment:

- installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		Capacity output	Capacity utilization	Automation:	
		A: most advanced	B: considerably high standard			C: moderate standard	D: appreciably short of today's standard
		I: III	II			E: almost outdated	I: fully automated
Bricks	Clay quarry and preparation	B	III	Storage capacity 1,600 m³	60%		
	Forming	B	II	1,600 m³/day	70%		
	Drying (from 24 to 6% water content)	A	I	750 t/day	93% (7 days/week, 3-shift operation)		
	Burning (1100°C)	B/C	II/III	750 t/day	146% (7 days/week, 3-shift operation)		
Stoneware	Shipping	B	III	950 t/day	70%		
	Clay and fireproof clay storing			Storage capacity 13,000 m³	50%		
	Material preparation	A	I	90 m³/day	70%		
	Pressing	C	III	90 m³/day	70%		
	Hand-moulding	C	III	18 m³/day	70%		

(For continuation see page 4)

CAPACITY UTILIZATION:

Full-capacity output: US \$ 11,610,000

Current utilization: based on 2-shift operation

Major product or process	up to 20	20-40	40-60	60-80	80-100	Approximate %
	%	%	%	%	%	%
Bricks		x				
Stoneware		x				
Ceramic tiles		x				
Stove tiles		x				
Others (1-shift operation only)		x				

Due to insufficient demand for ceramic tiles and stove tiles the company could not fully utilize its capacity. In order to achieve this target another 50 operatives would be required on the 2nd shift of the furnace departments.

IX. HISTORY & PLAN

1. Performance in the past:	Total output 1000 US \$	No. of persons employed	Total exports 1000 US \$
1963	9,520	1,801	-
1964	10,190	1,693	-
1965	10,500	1,618	-
1966	10,750	1,628	-
1967	10,850	1,406	-
1968	8,990	1,124	-

2. Investments in the past:	Approximate amount 1000 US \$	Type of investment	
		From 1959 to 1967:	in 1967:
	15,370	Buildings, additions to machinery, maintenance programme, standardisation of process equipment.	450

3. Future Plan:	From 1969 to 1973:	Rationalisation of production process, expansion of operative shops, introduction of new products.	
		No. of persons employed	Total exports 1000 US \$
	7,740		

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in those underlined.

(1964) Manufacture of structural clay products and 331 +
Industry Manufacture of glass and glass products (ISIC-Code: 332)

1. Size groups by number of persons employed:	No. of pers.	No. of emp.	Av. W. h. S.	Av. gross prod. val./pers. (US \$)	Av. value added/gross prod. ratio (%)	2. Size groups by annual sales of production (1000 US \$):		Av. W. h. S.	Av. gross prod. val./pers. (US \$)	Av. value added/gross prod. ratio (%)	
						No. of pers.	No. of emp.				
up to 19	331	2,011	1,445	5,191	66	20	181	342	4,367	62	
20 - 99	174	6,682	1,673	5,976	68	40	73	532	3,852	61	
100 - 499	32	12,842	2,075	5,390	72	200	193	4,029	4,634	71	
500 - 999	3	C	C	C	C	200	400	2,889	1,584	66	
over 1,000	2	C	C	C	C	400	2,000	45	5,583	6,399	
						over 2,000	10	8,260	2,196	68	
									5,500	74	
TOTAL:	542	21,535	1,891	5,553	70	TOTAL:	542	21,535	1,891	5,553	70

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services			
1 Engineering study	5 Technical and managerial personnel	8 Import and export management	
2 Financial assistance	6 Industrial training	9 Administration of foreign labour	
3 Industrial services	7 Technical consultancy		
4 Equipment supply			
Industrial & maintenance			

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project
1				The company is interested in preparing engineering, prefeasibility and feasibility studies for the brick and clay products industry.
2				Financial assistance could possibly be granted in co-operation with the bank to which the company partly belongs to.
3				Know-how contracts covering production techniques (clay quarry), quality control and planning of plant lay-out could be signed.
5				Industrial engineers, chemical engineers and managers could be sent abroad as experts.
6				Supervisors, foremen and salesmen could receive in-plant training only in the ceramic industry.

XII. SUPPLEMENTS & NOTES

This study presents 12 brick and 3 stoneware manufacturing plants as one unit. The sizes of these plants vary as follows:

The largest plant produces 10 times as much as the smallest one; 5 plants are producing 50%, one about 25% and the rest about 10% of the largest one.

Inefficient plants are shut down.

Inventories policy:

On the average the value of the stock of finished products amounts to 20% of the total value of production.

Training courses:

Training courses are provided for employees of the ceramics department.

IX. VIII. TECHNOLOGICAL CHARACTERISTICS - Capacity of primary operative shops: (cont'd)

Major primary operative shop	Kind of process involved	Manuel.	Autom.	Capacity output	Capacity utilization
Stoneware	Drying (from 24 to 0% water content)	A	I	80 t/day	146% (7 days/week, 3-shift operation)
	Glazing and composing	C	III	..	70%
	Burning (1200°C)	A	II	80 t/day	146% (7 days/week, 3-shift operation)
	Sorting out	C	III	120 t/day	70%

Major Products: Fire bricks (solid, hollow, etc.)
Capable of producing annually 100,000 m³ of bricks based on 2-shift operation. Full-capacity output amounts to US \$ 1.3 million.

Reporting Unit: A branch of a 15-establishment enterprise (see MIDDLE EUROPE : 331 - (1)).
Company was founded in 1869. The reporting plant was built in 1962. Modern machinery and equipment.
Approximately 80 employees; insignificant exports; no licensed production; research activities.

I. FIXED CAPITAL ASSETS

(End of 1967)		Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)				
TOTAL		1,006	1,209	
- Process equipment *		1,005	1,206	5
- Hand tools & apparatuses		3	3	5
2. Buildings		428	..	
TOTAL		366	..	5
- Primary industrial buildings (total floor space: .. m ²)		-	-	
- Auxiliary buildings		62	..	5
- Warehouses		-	-	
- Office administration buildings		-	-	
- Housing		-	-	
3. Auxiliary facilities (excl. buildings)		90	104	
TOTAL		28	33	5
- Internal power equipment		-	-	
- Laboratory facilities		-	-	
- Means of transportation		60	69	5
- Office equipment		2	2	5
TOTAL PHYSICAL FIXED ASSETS (excluding land):		1,526	..	
4. Other fixed capital assets		26	..	
TOTAL		25	..	
- Land (total acreage: 1,005,000 m ²)		1	..	
- Land improvements (t.mor. 17,225 ")		-	-	
- Others		-	-	

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 360 US\$	over 360 US\$
1. Local non-operatives						
- Managers	-	-	-	-	1	-
- Engineers	-	-	-	-	-	-
- Technicians	-	-	-	-	3	-
- Accountants	-	-	-	-	1	-
- Sales officers	-	-	-	-	1	-
- Clerks and typists	-	-	-	-	-	-
2. Local operatives						
- Supervisors	-	-	-	-	1	-
- Foremen	-	-	-	-	-	-
- Skilled operatives }						
- Machine operators	-	-	-	63	-	-
- Craftsmen	-	-	5	5	-	-
- Truck drivers	-	-	-	-	-	-
- Unskilled operatives	-	3	-	-	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	insignificant
	internal long distance	fair
	local and city	excellent
Utilities:	electricity	excellent
	water	"
	gas	"
Community:	residence	fair
	health and recreation	"
	education	"
Own Welfare Facilities:		Apartments

III. INVENTORIES

(End of 1967)		Annual value (1000 US \$)	Number of months
Inventories		246	
TOTAL		5	0.5
- Production materials		21	1.5
- Other input materials		9	0.5
- Work-in-process		211	2.5
- Finished products			

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	9	9	8	hours
Actual hours/year	1,935	1,935	1,720	hours
Actual days/year	215	215	215	days

IV. MANNING TABLE

(Number of persons)

	Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
ALL SHOPS & UNITS:	83	6	47			27	3	
1. Primary operative shops	63	-	-	34	-	26	3	
- Clay quarry and preparation department	5	-	-	3	-	2	-	
- Forming department	2	-	-	1	-	1	-	
- Drying department	7	-	-	4	-	3	-	
- Burning department	24	-	-	12	-	9	3	
- Shipping department	25	-	-	14	-	11	-	
2. Auxiliary operative units	13	-			12	1	-	-
- Repair & maintenance	10	-			9	1	-	-
- Mechanical shop	-	-			-	-	-	-
- Tooling shop	-	-			-	-	-	-
- Utilities control	-	-			-	-	-	-
- Product & material storage	-	-			-	-	-	-
- Off-site transport	-	-			-	-	-	-
- Guards, cleaners, etc.	3	-			3	-	-	-
3. Auxiliary non-operative units	7	6			1	-	-	-
- Production management	7	6			1	-	-	-
- Research & development	-	-			-	-	-	-
- Sales unit	-	-			-	-	-	-
- Accounting	-	-			-	-	-	-
- General administration	-	-			-	-	-	-

V. ANNUAL PRODUCTION

(1967)

Products (or group of products)	Yr. of prod.	Quantity produced Unit	Quantity Produced	Avg. unit price ex factory (US \$)	Total output value 1000 US \$
Fire bricks (solid, hollow, etc.)	1963	m3	93,372	0.02	1,182

TOTAL VALUE OF PRODUCTION: 1,182

VI. VALUE ADDED

(1967)

	Total value (1000 US \$)
1. Annual wages & salaries	
- Operative workers (77 personnel)	254
- Non-operative workers (6 personnel)	16
2. Other payments for employees	
3. Annual depreciation	62
- Machinery & equipment	141
- Buildings & other facilities	57
- Non-physical capital assets	-
4. Rentals paid	-
5. Interest & royalties	51
6. Sales tax	53
7. Other indirect business taxes	13
8. (-) Subsidies	-
9. Corporate income before tax	124

TOTAL VALUE ADDED: 792

DESCRIPTION OF MAJOR PRODUCTS:

Bricks: solid bricks, hollow bricks, bricks for ceilings.

Delivery on pallets.

Terms of delivery: prompt.

MARKET ASPECTS:

Consumers of products:

Private and public construction firms.

Sales organization:

Own central sales department for all 15 establishments of the company.

Competition in the market:

Increasing competition with industries producing substitutes (concrete blocks, prefabricated elements, heaped concrete, etc.) besides the normal competition with other manufacturers of bricks.

EXPORT: Insignificant.
Total annual export:

Major products	To Western countries	To Eastern countries	To Developing countries

VII. ANNUAL CONSUMPTION

(1967)

	Quantity consumed Unit	Quantity Consumed	% Import	Average import duties	Total consumption value 1000 US \$
1. Energy and water					
TOTAL:					220
- Electricity	000 kWh	3,090			65
- Fuel oil	t	7,690			153
- Water	000 m3	36			2
2. Production materials					
TOTAL:					101
- Clay	m3	78,567			101

	Total consumption value 1000 US \$
3. Other materials & supplies	
TOTAL:	69
- Packaging material and auxiliary material	9
- Parts, supplies & services	40
- Other materials & supplies	20
4. Business services purchased	
TOTAL:	-
- Transportation, storage & insurance	-
- Communication, advertising & other business services	-
5. Work performed by subcontractors	
TOTAL:	-

TOTAL VALUE OF CONSUMPTION: 390

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1):	Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Ave. Age Year	Remarks	Remote B: Purchased second-hand C: Otherwise	Supplier D: Home E: Self-constructed	Year of instal- lation	Daily running time	Capacity output
Charger	1	7	8	5			Germany, F.R.	1962	16 hrs	100,000 m³/year
Pug mill	1	58	70	5			"	1962	16 hrs	100,000 m³/year
Finishing rolls	2	17	21	5			"	1962	16 hrs	100,000 m³/year
Melander	1	75	91	5			"	1962	24 hrs	1,000 cu filling capacity
Round charger	1	4	5	5			"	1962	16 hrs	100,000 m³/year
Vacuum aggregate	1	20	24	5			"	1962	16 hrs	100,000 m³/year
Automatic cutting machine	1	5	5	5			Switzerland	1962	16 hrs	8 million cu's/year
Transport wagon	1	10	12	5			Germany, F.R.	1962	16 hrs	5,600 ton kilometers
Chamber drying oven	1	317	380	5			"	1962	24 hrs	67,000 t dehydrated
Tunnel furnaces	2	443	531	5			"	1962	24 hrs	136,000 t/year
Cranes	3	49	59	5						

CAPACITY POWER:

Process equipment:

- electric motors kW 650

Generating equipment:

- installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization: A: most advanced B: considerably high standard C: moderate standard D: appreciably short of today's standard E: almost outdated	Number	Autom.	Capacity output	Capacity utilization rate	Automation: I: fully automated II: semi-automated III: non-automated
Clay quarry and preparation department		B	III		100,000 m³/year	60%	
Forming department		B	II		100,000 m³/year	60%	
Drying department		A	I		67,000 t dehydration	146% (7 days/week, 3-shift oper.)	
Burning department		B	II		136,000 t	146% (7 days/week, 3-shift oper.)	
Shipping department		B	III		approx. 93,600 m³/ year	60%	

CAPACITY UTILIZATION:

Full-capacity output: US \$ 1.3 million

Current utilization: based on 2-shift operation

Major products for processes	up to 20	20-40	40-60	60-70	70-80	80-90	90-100	100
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IX. HISTORY & PLAN

1. Performance in the past:	Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
Year: 1963	..	83	-
1964	1,010	83	-
1965	1,190	83	-
1966	1,260	83	-
1967	1,330	83	-
1968	1,370	83	-

2. Investments in the past:	Approximate amount 1960 US \$	Type of investment
From 19 to 19 : No data available.		

3. Future Plan:	From 1970 to 1971:	Approximate amount 1960 US \$	Description
	58		Expansion of production equipment. 4 additional unskilled operatives will then be employed on the 2nd shift.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these nine groups are included in those underlined.

(1964) Manufacture of structural clay products and
Industry manufacture of glass and glass products (ISIC Code: 331 + 332)

1. Size groups by number of persons employed:	No. of small.	No. of emp.	Ave. W. & S. per pers. (US \$)	Ave. gross prod. val./ per pers. (US \$)	Ave. value added/gross prod. ratio (%)	2. Size groups by annual sales of production 1960 US \$:	No. of small.	No. of emp.	Ave. W. & S. per pers. (US \$)	Ave. gross prod. val./ per pers. (US \$)	Ave. value added/gross prod. ratio (%)
up to 19	331	2,011	1,445	5,191	66	up to 20	161	242	962	4,387	62
20 - 99	174	6,682	1,673	5,976	68	20 - 40	73	532	1,126	3,852	61
100 - 499	32	12,842	2,075	5,390	72	40 - 200	193	4,029	1,575	4,634	71
500 - 999	3	c	c	c	c	200 - 400	60	2,889	1,584	5,766	66
over 1,000	2	c	c	c	c	400 - 2,000	45	5,583	1,941	6,399	68
						over 2,000	10	8,260	2,196	5,500	74
TOTAL:	542	21,535	1,891	5,553	70	TOTAL:	542	21,535	1,891	5,553	70

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- | | | |
|---|---------------------------------------|--------------------------------|
| 1. Engineering study | 5. Technical and managerial personnel | 8. Import and export promotion |
| 2. Financial assistance | 6. Industrial training | 9. Admission of foreign labour |
| 3. Industrial services | 7. Technical consultancy | |
| 4. Equipment supply, installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project

See MIDDLE EUROPE : 331 - (1).

XII. SUPPLEMENTS & NOTES

This branch is the second-largest establishment of the 15-establishment enterprise studied (MIDDLE EUROPE : 331 - (1)). It accounts for 20% of the bricks manufactured and about 10% of the total value of production of the entire company.

The plant was built in 1962, production started one year later; the break-even point was reached in 1965 with a total value of production surpassing US \$ 1 million.

Inventorization policy:

On the average the value of the stock of finished products amounts to 6% of the total value of production.



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XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1 Engineering study	5 Technical and managerial personnel	8 Import and export management
2 Financial assistance	6 Industrial training	9 Admission of foreign labour
3 Industrial services	7 Technical consultancy	
4 Equipment supply, installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects
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- 1 The company shows interest in preliminary and feasibility studies for varnish producing factories.
- 3 Know-how contracts as well as patents could be supplied to manufacture varnishes for surface finishing of wood.
- 5 Industrial, mechanical, and chemical engineers could be provided to supervise start of production.
- 6 The establishment is prepared to provide in-plant training for unskilled workers.
- 8 The company would like to import production material of superior quality from developing countries. The total product-mix could be exported.

XII. SUPPLEMENTS & NOTES

Depreciation policy:

The straight-line as well as accelerated methods are applied.

Bottlenecks:

Delayed deliveries during construction season can only be avoided if the newly built production hall could be finished soon.

ADDITIONAL CONDITIONS (page 1):

Since the plant is located in a tourist area it is difficult to find suitable housing for workers. Therefore, it is considered to set up company-owned housing projects.

Major Products:

Detergents.
Full-capacity output amounts to US \$ 8 million. Capable of producing annually about 16,000 t on 3-shift operation.

Reporting Unit:

A one-establishment, privately owned enterprise; founded in 1961; 142 employees; no foreign capital participation. Construction of the factory was first started in 1961, trial production in 1963 and commercial production in 1964; profits were made first in 1964, when the total output amounted to US \$ 3,000,000; no merging with other companies envisaged. Exports amount to approximately US \$ 1.25 million.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1000 US \$)	Replace ment value (1000 US \$)	Ave age (Yrs.)
1. Primary process equipment (including installation cost)	946	..	..
TOTAL	946	..	..
- Process equipment *	-	-	-
- Hand tools & apparatuses	-	-	-
2. Buildings	172	..	..
TOTAL	172	..	..
- Primary industrial buildings** (total floor space: .. m ²)	172	..	..
- Auxiliary buildings	-	-	-
- Warehouses	-	-	-
- Office administration buildings	-	-	-
- Housing	-	-	-
3. Auxiliary facilities (excl. buildings)	29	..	..
TOTAL	29	..	..
- Internal power equipment	15	14.9	..
- Laboratory facilities	-	-	-
- Means of transportation	-	-	-
- Office equipment	14	..	..
TOTAL PHYSICAL FIXED ASSETS (excluding land):	1,147	..	
4. Other fixed capital assets	369	..	
TOTAL	369	..	
- Land (total acreage: 13,890*) (m ²)	356	..	
- Land improvements	-	-	
- Others	13	-	

*) Purchased from the owners of the plant in 1969

**) Depreciated value

*No. Details of process equipment and capacity of primary operative shops are given on Page Three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	fair
	local and city	fair
Utilities:	electricity	fair
	water	excellent
	gas	fair
Community:	readiness health and recreation	fair
	education	fair
Own Welfare Facilities:	-	-

III. INVENTORIES

(End of 1968)

	Actual value (1000 US \$)	Number of months
Inventories	806	
TOTAL:		
- Production materials	370	..
- Other input materials	-	-
- Work-in-process	119	..
- Finished products	317	..
(See Section XIII - Liquid assets and Desired working capital.)		

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
	shift	shift	shift	hours
Shift hours/day	8	8	8	hours
Average hours/year:	2,368	2,368	2,368	hours
Normal days/year:	296	296	296	days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

	US\$	US\$	US\$	US\$	US\$	US\$
1. Local non-operatives						
- Managers	790	-	1,980			
- Assistant managers	460	-	925			
- Technicians	105	-	265			
- Accountants	105	-	400			
- Sales officers	80	-	530			
- Clerks and typists	80	-	200			
2. Local operatives						
- Supervisors	105	-	-			
- Foremen	-	-	265			
- Skilled operatives	50	-	85			
- Machine operators	120	-	210			
- Craftsmen	35	-	160			
- Truck drivers	35	-	46			
- Unskilled operatives	35	-	80			
- Other full-time operatives	35	-	-			
- Part-time operatives	-	-	-			
3. Foreign employees						
- Managerial staff						
- Technical staff						
- Other skilled operatives						
- Unskilled operatives						
(no foreign employees)						
(1968 average)						
Number of personnel						
Skill categories: A Supervisory staff and foremen (for all shifts) B Machine operators						
(1968 average)						
Total						
A						
B						
C						
D						
ALL SHOPS & UNITS:	142	29	40	38	35	
1. Primary operative shops	122	9	40	38	35	
- All shops	122	9	40	38	35	
2. Auxiliary operative units	5	-	5	-	-	-
- Repair & maintenance	1	-	1	-	-	-
- Mechanical shop	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-
- Utilities control	-	-	-	-	-	-
- Product & material storage	1	-	1	-	-	-
- Off-site transport	1	-	1	-	-	-
- Guards, cleaners, etc.	1	-	1	-	-	-
- Others	1	-	1	-	-	-
3. Auxiliary non-operative units	15	-	15	-	-	-
- Production management	1	-	1	-	-	-
- Research & development	1	-	1	-	-	-
- Sales unit	4	-	4	-	-	-
- Accounting	3	-	3	-	-	-
- General administration	1	-	1	-	-	-
- Others	5	-	5	-	-	-

V. ANNUAL PRODUCTION

(1968)		Yr. of first prod.	Quantity produced Unit	Av. unit price ex factory (US \$)	Total output value (000 US \$)
Products for group of products	Quantity				
Detergents	1964	t	11,810	488.4	5,768

TOTAL VALUE OF PRODUCTION: 5,768

VI. VALUE ADDED

(1968)		Total value (000 US \$)
1. Annual wages & salaries		
- Operative workers	116	169
(127 persons)		
- Non-operative workers	13	
(11 persons)		
2. Other payments for employees		29
3. Annual depreciation		140
- Machinery & equipment	112	
- Buildings & other facilities	20	
- Non-physical capital assets	1	
4. Rents paid		92
5. Interest & royalties		172
6. Sales tax		-
7. Other indirect business taxes		-
8. (-) Subsidies		-
9. Corporate income before tax		237

TOTAL VALUE ADDED: 839

DESCRIPTION OF MAJOR PRODUCTS:

Good terms of delivery; good competitive position within the local market.

MARKET ASPECTS:

Consumers of products: Private households.Sales organisation: Depends on own sales network.Share in the domestic market: 70%.Competition with imported products: No prohibitive tariff barrier exists against competitive imports.Acquisition of production materials: Sodium sulphate and sodium phosphate from F.R. Germany. Silicate and mono-acid from U.K. as well as from F.R. Germany. Imports are on usual terms, subject to import duties, though there are no import restrictions.

EXPORT:

Total annual export: US \$ 1,250,000

Major products	To Western countries	To Eastern countries	To Developing countries
Detergents	-	71%	29%

Prospects of exports: favourable.Export price policy: At possible minimum prices to increase exports.

VII. ANNUAL CONSUMPTION

(1968)		Quantity consumed Unit	% import	Average import duties	Total consumption value (000 US \$)
	Quantity				
1. Energy and water					
TOTAL:					30
- Electricity	000 kWh	1,140	-		20
- Liquid fuels,lubricants	000 l	821	-		16
- Water	000 m³	21,520	-		44
2. Production materials					
TOTAL:				326	2,415
- D.D.B.	t	2,090	-	-	589
- Sulphur	t	352	-	-	63
- Sodium sulphate	t	2,299	100	..	305
- Sodium phosphate	t	4,396	100	..	1,177
- Sodium silicate	t	638	100	..	96
- Mono-acid	t	120	100	..	80
- Others	t	..	-	-	105

	Total consumption value (000 US \$)
3. Other materials & supplies	1,426
TOTAL:	1,373
- Packaging material (bags, boxes, etc.)	
- Parts, supplies & services	40
- Other materials & supplies	13
4. Business services purchased	1,006
TOTAL:	
- Transportation, storage & insurance	
- Communication, advertising & other business services	1,008
5. Work performed by subcontractors	-
TOTAL:	

TOTAL VALUE OF CONSUMPTION: 4,929

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (I.I.):

Number	Original Purchase Value US \$ 00	Revised value US \$ 00	Ave. age years	Remarks	Further details
--------	-------------------------------------	---------------------------	-------------------	---------	-----------------

Total value of process equipment amounts to US \$ 946,000.

All machines can be considered as most modern.

CAPACITY POWER:

Process equipment:

- electric motors - kW

Generating equipment:

- installed capacity - kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:	C. moderate standard	Automation:
		A. more advanced	B. approximately that of today's standard	I. Fully automated
		D. considerably high standard	E. almost mastered	II. semi-automated
Powder shop		B	II	

CAPACITY UTILIZATION:

Full-capacity output: approx. US \$ 8,000,000.

Current utilization:

Major products for processing	Up to 20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Approximate %
	Up to 20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Total output

The actual over-all capacity utilisation rate

is considered to be only about 72% due to lack
of demand.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output tons	No. of persons employed	Total exports tons
1963	-	-	-
1964	2,270	128	-
1965	3,120	128	4
1966	3,700	128	17
1967	5,200	130	430
1968	11,810	142	2,553

2. Investments in the past:

From 19	To 19	Type of investment
		None.

3. Future Plan:

From 19	To 19	Type of investment
		None.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

*) Selected three other establishments producing detergents (which represent only part of ISIC-code 319).

(1967) Manufacture of miscellaneous chemical products

(ISIC-Code: 319 *)

Industry	No. of estab.	No. of emp.	Ave. W. & S. per pers. (US \$)	Ave. gross output per pers. (US \$)	Ave. value added/gross output ratio (%)	Fixed capital per pers. (US \$)
1. Size groups by number of persons employed: up to 70	2	78	410	31,408	87	8,586
over 70	1	130	765	39,934	92	12,589
TOTAL:	3	208	632	36,737	90	11,088

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02919



Major Products: Glass bottles, wide-mouthed glass containers, lighting glasses, etc.
Full-capacity output amounts to 25,000 t of glassware based on 3-shift operation.

Reporting Unit: A branch of a 2-establishment enterprise; founded in 1859; privately owned joint-stock company; 358 employees. 6% exports. Although the reporting company is very old, the process equipment utilised has always been kept at modern standards. The whole enterprise has 1,200 employees. The purchase and sales departments are centrally organised. No own research activities.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1968 US \$)	Repre- sentative value (1968 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	1,757	2,181	
- Process equipment *	1,612	1,978	5
- Hand tools & apparatuses	145	203	5
2. Buildings			
TOTAL	302	1,411	
- Primary industrial buildings (total floor space: 2,900 m ²)	117	261	15
- Auxiliary buildings	110	229	20
- Warehouses	183	267	5
- Office administration buildings	56	105	30
- Housing	336	549	50
3. Auxiliary facilities (excl. buildings)			
TOTAL	413	486	
- Internal power equipment	378	439	5
- Laboratory facilities	7	8	5
- Means of transportation	10	11	3
- Office equipment	18	28	6
TOTAL PHYSICAL FIXED ASSETS (excluding land):	2,972	4,078	
4. Other fixed capital assets			
TOTAL	84	295	
- Land (total acreage: 6,312 m ²)	38	24	-
- Land improvements (t.scr.6,718 ")		217	-
- Others	46	54	30

H. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1968 monthly average)

up to 100 US\$	100 US\$	100 US\$	140 US\$	160 US\$	240 US\$	over 260 US\$
----------------------	-------------	-------------	-------------	-------------	-------------	---------------------

1. Local non-operatives

Managers	-	-	-	-	4	2
Engineers	-	-	-	-	3	1
Technicians	-	-	2	2	-	-
Accountants	-	-	-	-	2	-
Sales officers	-	-	-	-	-	-
Clerks and typists	-	1	-	9	4	1

2. Local operatives

Supervisors	-	-	-	4	6	-
Foremen	-	-	-	1	6	-
Skilled operatives	-	-	-	-	-	-
Machine operators	-	-	-	30	28	-
Craftsmen	-	-	39	25	-	-
Truck drivers	-	-	2	-	-	-
Unskilled operatives	-	-	76	4	-	-
Other full-time operatives	-	-	31	76	-	-
Part-time operatives	-	-	-	-	-	-

3. Foreign employees

Managerial staff	-	-	-	-	-	-
Technical staff	-	-	-	-	-	-
Other skilled operatives	-	-	-	-	-	-
Unskilled operatives	-	-	-	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport: external long distance poor (*)
internal long distance fair
local and city insignificant

Utilities: electricity excellent
water fair
gas insignificant

Community: residence fair
health and recreation excellent
education fair

Own Welfare Facilities: Housing, sport facilities.

(*) Company reports increase of production costs by 5-6% due to long distance transport.

III. INVENTORIES

(End of 1968)

Inventories	Actual value (1968 US \$)	Number of months
TOTAL:	917	
- Production materials	39	0.5
- Other input materials	51	2
- Work-in-process	-	-
- Finished products	627	2

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours days
8	8	8	hours days
Shift hours/day	8	8	8
Actual hours/year	2,920	2,800	2,800
Actual days/year	365	365	365

IV. MANNING TABLE

(number of persons)

Skill categories: A. Supervisory staff and foremen (for all shifts)

B. Skilled operatives

C. Semi-skilled operatives (machine operators)

D. Unskilled operatives

(1968 average)

Total	A	B	C	D	2nd shift	3rd shift
ALL SHOPS & UNITS:	358	43	163	-	81	71

1. Primary operative shops

Glasse melting department	7	-	3	-	2	2
Glasse processing department	51	6	-	13	2	15
Grinding and packing dept.	146	5	-	26	21	47
Grinding and screen printing department	15	3	-	6	-	6

2. Auxiliary operative units

Repair & maintenance	56	3	-	49	2	2
Mechanical shop	-	-	-	-	-	-
Tooling shop (Mould design)	21	3	-	15	3	1
Utilities control	6	1	-	3	1	1
Product & material storage	26	4	-	18	2	2
Off-site transport	1	-	-	1	-	-
Guards, cleaners, etc.	11	-	-	6	3	2

Production management	2	2	-	-	-	-
Research & development	5	5	-	-	-	-
Sales unit	2	2	-	-	-	-
Accounting	4	4	-	-	-	-
General administration	5	5	-	-	-	-
Central office	(27)	(27)	-	-	-	-

XI. DEFINED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services

- 1. Engineering study
- 2. Financial assistance
- 3. Industrial services
- 4. Equipment supply, installation & maintenance
- 5. Technical and managerial personnel
- 6. Industrial training
- 7. Technical consultancy
- 8. Import and export transaction
- 9. Utilization of foreign labour

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

XII. SUPPLEMENTS & NOTES

Average liquid assets	(000 US \$)	Desired working capital	(000 US \$)	Equivalent number of months
Cash on hand and in bank	1,203	Production materials	2	2
Accounts receivable from delivery of goods and services	1,132	Other materials and supplies	31	2
Total	2,335	Wages for primary operative workers	76	2
		Other wages and salaries	14	2
		Other special items	5	..
		Total	128	

Labor training:

Regular internal and external training classes.

Major Products: Cement and binding agents.
Capable of producing annually about 400,000 t. Full-capacity output approximates US \$ 5.6 million, based on 3-shift operation.

Reporting Unit: A branch of a 3-establishment enterprise (one other establishment is presented in MIDDLE EUROPE : 334 - 2). Privately owned, founded in 1893; 280 employees. Own research activities to develop new building materials. No exports.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	8,204	10,035	
- Process equipment *	7,945	9,694	18
- Hand tools & apparatuses	259	341	10
2. Buildings	2,404	4,296	
TOTAL			
- Primary industrial buildings (total floor space: 5,000 m ²)	1,507	2,516	15
- Auxiliary buildings	270	534	20
- Warehouses	4	8	20
- Office administration buildings	39	77	20
- Housing	584	1,161	20
3. Auxiliary facilities (excl. buildings)	588	813	
TOTAL	387	542	10
- Internal power equipment			
- Laboratory facilities	23	35	10
- Means of transportation	104	135	5
- Office equipment	74	101	10
TOTAL PHYSICAL FIXED ASSETS (excluding land)	11,196	15,144	
4. Other fixed capital assets	472	1,343	
TOTAL			
- Land (total acreage: 2,245,000 m ²)	275	1,045	
- Land improvements (t.s.m.r. 15,000 ")		39	
- Others	197	259	10

H. MONTHLY GROSS WAGES AND SALARIES

Number of personnel

(1967 monthly average)

up to 100 US\$	100 US\$	140 US\$	160 US\$	240 US\$	260 US\$	over 560 US\$
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1. Local non-operatives

- Managers	-	-	-	-	-	-
- Engineers	-	-	-	-	3	4
- Technicians	-	-	-	-	6	1
- Accountants	-	2	1	-	3	1
- Sales officers	-	1	-	-	3	-
- Clerks and typists	2	6	2	9	3	-

2. Local operatives

- Supervisors	-	-	-	-	-	-
- Foreman	-	-	-	-	6	-
- Skilled operatives	-	-	3	-	-	-
- Machine operators	-	81	18	10	-	-
- Craftsmen	-	38	9	-	-	-
- Truck drivers	-	4	-	-	-	-
- Unskilled operatives	17	3	-	-	-	-
- Other full-time operatives	-	34	9	-	-	-
- Part-time operatives	-	-	-	-	-	-

3. Foreign employees

- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	poor
	internal long distance	"
	local and city	insignificant
Utilities:	electricity	fair
	water	excellent
	gas	insignificant
Community:	residence	poor
	health and recreation	fair
	education	excellent
Own Welfare Facilities:	Cinema, sports ground	

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories	894	
TOTAL:	8	0.5
- Production materials	507	1
- Other input materials	240	0.5
- Work-in-process	139	0.25
- Finished products		

IV. MANNING TABLE

Number of personnel

(1967 average)

Skill categories:	A Supervisory staff and foremen (for all shifts)	B Skilled operatives	C Semi-skilled operatives (machine operators)	D Unskilled operatives
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Total	A	B	C	D	2nd shift	3rd shift
ALL SHOPS & UNITS:	280	28	121	40	20	19
1. Primary operative shops	125	8	1	29	22	46
- Exploitation of raw material	21	2	-	9	1	9
- Preparation of raw material	15	2	-	4	1	4
- Production of clinker	36	1	1	8	4	11
- Cement milling	13	1	-	2	2	4
- Packing shop	35	1	-	2	14	18
- Power station	5	1	-	4	-	-
2. Auxiliary operative units	98	7	-	87	2	2
- Repair & maintenance	55	2	-	53	-	-
- Mechanical shop	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-
- Utilities control	10	3	-	3	2	2
- Product & material storage	-	-	-	-	-	-
- Off-site transport	8	-	-	8	-	-
- Guards, cleaners, etc.	16	1	-	15	-	-
- Others	9	1	-	8	-	-
3. Auxiliary non-operative units	57	43	-	14	-	-
- Production management	18	8	-	10	-	-
- Research & development	1	1	-	-	-	-
- Sales unit	16	16	-	-	-	-
- Accounting	8	8	-	-	-	-
- General administration	14	10	-	4	-	-

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
- Shift hours/day: (*)	8.8	8.8	8.8	hours
- Actual hours/year:	2,300	2,300	2,300	hours
- Actual days/year:	260	260	260	days
(*) Actual; normal working time: 8 hrs/day				

V. ANNUAL PRODUCTION

(1967)	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price at factory (US \$)	Total output value 1000 US \$
Cement	1894	t	320,494 (*)	15.8	5,064
Binding agents	1961	t	25,020	11.0	276
Electricity and others	1900	-	-	-	50

(*) Not including internal consumption
of 1,369 t of cement

TOTAL VALUE OF PRODUCTION: 5,390

VI. VALUE ADDED

(1967)	Total value 1000 US \$
1. Annual wages & salaries	622
- Operative workers (222 personnel)	454
- Non-operative workers (58 personnel)	168
2. Other payments for employees	198
3. Annual depreciation	963
- Machinery & equipment	911
- Buildings & other facilities	49
- Non-physical capital assets	—
4. Rents paid	14
5. Interest & royalties	69
6. Sales tax	346
7. Other indirect business taxes	—
8. (-) Subsidies	—
9. Corporate income before tax	391

TOTAL VALUE ADDED: 2,563

DESCRIPTION OF MAJOR PRODUCTS:

Cement and binding agents.

Continuous production.

Packing units: Sacks of 50 kg.

Terms of delivery: Prompt.

MARKET ASPECTS:

Consumers of products:

Construction companies.

EXPORT: No exports.

Total annual export:

Major product	To Western countries	To Eastern countries	To Developing countries

Sales organisation:

Own staff of salesmen to supply wholesalers and retailers.

Share in the domestic market:

A share of 8% is allotted by the cartel.

Competition in the market:

Little competition due to cartel agreement.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity Unit	% Change Rate	Total consumption value 1000 US \$
1. Energy and water				1,316
TOTAL:				
- Electricity	800 kWh	30,161 (*)	-	541
- Fuel oil	t	31,688	-	775
(*) Not including internal supply of 43,350,000 kWh				
2. Production materials				409
TOTAL:				
- Limestone	t	261,990 (**)	-	-
- Clay	t	258,400 (**)	-	-
- Gypsum	t	18,330	-	140
- Blast furnace slag	t	23,877	-	70
- Flux dust	t	5,009	-	16
- Roasted pyrites	t	2,866	-	21
- Iron ore	t	2,880	-	10
- Fluorite	t	1,193	-	36
- Chalcocite	t	7,918	-	108
(**) Internally supplied				

3. Other materials & supplies	Total consumption value 1000 US \$
TOTAL:	780
- Packaging material (paper sacks)	273
- Parts, supplies & services	265
- Other materials & supplies	242
4. Business services purchased	322
TOTAL:	67
- Transportation, storage & insurance	235
- Communication, advertising & other business services	—
5. Work performed by subcontractors	—
TOTAL:	—

TOTAL VALUE OF CONSUMPTION: 2,887

VIII. TECHNOLOGICAL CHARACTERISTICS

Detail of Process Equipment No. 1:	Number	Original Purchase Value US \$ 1000	Acquisi- tion value US \$ 1000	Ave. Age (yrs)	Remarks	Further details
i) Machines for exploitation of raw material (in quarry and rock crushing plant)	..	813	1,045	10	-	i) Electro pneumatic large-hole drilling machine; supplier country: Fed. Rep. of Germany; installed in 1960. Special lorries. Digger; special trucks.
ii) Machines for preparation of raw material for shaft furnaces	..	387	522	40	partly ob	ii) Clay drying plant, grinder, mixing silos for unseparated raw dust, storage tanks.
Machines for preparation of raw material for rotary kilns	..	774	1,033	15	-	iii) Lepel grating, rotary kiln, clinker cooling equipment, clink crusher, clinker storage equipment, cranes.
iii) Production of clinker in shaft furnaces	3	267	325	40	partly ob	iv) Cement mills, silos, packing machines.
Production of clinker in rotary kilns	3	3,019	3,483	15	-	
iv) Cement mills	4	642	851	15	-	
Packing equipment and silos	..	1,502	1,769	10	-	
Electric motors	..	480	619	10	-	
Transformers	..	62	85	10	-	

CAPACITY POWER:

Process equipment:

- electric motors kW 6,950

Generating equipment:

- installed capacity kVA 1,220

Major primary operative shops	Kind of process involved	Manufacture:		C. machine standard	D. apparently short of today's standard	Automation:		E. uncontrolled
		A. more advanced	B. considerably high standard			Machine	Auton.	
Exploitation of raw material	Exploitation of lime-stone with blasting every 2 - 3 months	B	III			7 hrs	22,000 t/month	30%
Preparation of raw material	Exploitation of clay Lime crushing, clay crushing and drying, production of raw dust, processing of granulated material	B	III			24 hrs	28,000 t/month	95%
Production of clinker	Sintering in rotary kilns (1500° C)	B	III			24 hrs	500 t/day	95%
Cement milling	Milling of clinker in ball mills together with blast furnace slag and gypsum	B	II			24 hrs	45 t/hour	100%
Packing and dispatch shop	Filling into sacks of 50 kg or shipment in wagons or silo-trucks	B	II			24 hrs	1,800 t/day	95%

CAPACITY UTILIZATION:

Full-capacity output: US \$ 5,611,500

Current utilization: Based on 3-shift operation

Major products for processing	to 30	40	50	60	70	80	90	100
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IX. HISTORY & PLAN

1. Performance in the past:	Total output US \$ 1000	No. of persons employed	Total output US \$ 1000
Year: 1963	5,000	311	-
1964	5,650	306	-
1965	6,290	307	-
1966	7,360	297	-
1967	7,600	278	-
1968	-	-	-

2. Investments in the past:	Amounts invested US \$ 1000	Type of investment
From 1955 to 1966:	8,260	2 rotary kilns, storage silos, cement mills, packing and loading equipment, raw mill.
In 1967:	1,140	

3. Future Plan:	Amounts invested US \$ 1000	Expansion of machinery and equipment; rationalisation of product-mix, machinery and equipment, production facilities, etc.
From 1968 to 1973:	3,870	

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these nine groups are included in underlined ones.

(1964)

Industry Manufacture of cement

(ISIC-Code: 334)

1. Nine groups by number of persons employed	No. of compl.	No. of emp.	Av. W. & S. per pers. US \$	Av. gross prod. val/ per pers. US \$	Av. value addition/ prod. ratio (%)	2. Nine groups by annual value of production US \$ 1000	No. of compl.	No. of emp.	Av. W. & S. per pers. US \$	Av. gross prod. val/ per pers. US \$	Av. value addition/ prod. ratio (%)	
up to 19	2	c	c	c	c	up to 20	-	-	-	-	-	-
20 - 99	2 - 4	c	c	c	c	20 - 40	1	c	c	c	c	c
100 - 499	12	4,082	2,272	14,977	36	40 - 200	1	c	c	c	c	c
500 - 999	1	c	c	c	c	200 - 400	-	-	-	-	-	-
over 1,000	-	-	-	-	-	400 - 2,000	3	226	2,160	12,447	19,176	36
TOTAL:	17	4,082	2,272	14,977	36	over 2,000	12	3,784	2,170	19,176	36	36

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- | | | |
|---|---------------------------------------|-------------------------------------|
| 1. Engineering study | 5. Technical and managerial personnel | 8. Import and export promotion |
| 2. Financial assistance | 6. Industrial training | 9. Administration of foreign labour |
| 3. Industrial services | 7. Technical consultancy | |
| 4. Equipment supply, installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

For further details see MIDDLE EUROPE : 334 - (2)
since both branch establishments are under the same
management.

XII. SUPPLEMENTS & NOTES

Depreciation policy:

The straight-line as well as the accelerated methods of depreciation are applied.

Labour training facilities:

Qualified workers are sent abroad to participate in advanced training courses to become foremen.

Inventories policy:

On the average the value of finished products in stock amounts to 4% of the total value of production.
The company delivers cement and binding agents immediately after production.

Major Products: Cement and cement-lime mixture.

Capable of producing annually 250,000 t of cement and cement-lime mixture based on 3-shift operation. Full-capacity output amounts to US \$ 3.5 million.

Reporting Unit:

Branch of a 3-establishment enterprise (one other branch is presented in MIDDLE EUROPE : 334 - (1)).
Privately owned; founded in 1939; 150 employees; no exports. Own research activities
in order to develop new building materials.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1000 US \$)	Replace ment value (1000 US \$)	Ave age (Yrs.)
1 Primary process equipment (including installation cost)	2,913	3,708	
TOTAL	2,732	3,677	11
- Process equipment *	23	31	6
- Hand tools & apparatuses			
2 Buildings	636	948	
TOTAL	476	658	8
- Primary industrial buildings (total floor space: 47,000 m ²)	39	77	15
- Auxiliary buildings	-	-	
- Warehouses	47	155	10
- Office/administration buildings	23	68	10
- Housing			
3 Auxiliary facilities (excl. buildings)	276	352	
TOTAL	143	186	6
- Internal power equipment			
- Laboratory facilities	12	15	8
- Means of transportation	51	62	3
- Office equipment	78	89	5
TOTAL PHYSICAL FIXED ASSETS (excluding land)	3,724	5,008	
4 Other fixed capital assets	317	678	
TOTAL	147	399	-
- Land (total acreage: 206,700 m ²)	46	124	-
- Land improvements (1 acr. 63,500 m ²)	46	124	-
- Others	124	155	8

*Note: Details of process equipment and capacity of primary operative units are given on Page three, Section VIII.

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	Up to 100 US \$	100-140 US \$	140-160 US \$	160-240 US \$	240-560 US \$	over 560 US \$
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1. Local non-operatives

- Managers	-	-	-	-	-	-
- Engineers	-	-	-	-	3	-
- Technicians	-	-	-	3	-	-
- Accountants	-	-	2	3	-	-
- Sales officers	-	1	1	3	4	-
- Clerks and typists	-	-	1	4	-	-

2 Local operatives

- Supervisors	-	-	-	-	-	-
- Foremen	-	-	-	4	1	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators	-	1	5	39	2	-
- Craftsmen	-	2	7	8	4	-
- Truck drivers	-	1	3	3	2	-
- Unskilled operatives	-	9	6	6	-	-
- Other full-time operatives	-	3	1	10	-	-
- Part-time operatives	2	2	-	-	-	-

3 Foreign employees

- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

III. EXTERNAL CONDITIONS**EXTERNAL CONDITIONS**

Transport	external long distance	fair
	internal long distance	excellent
	local and city	excellent
Utilities	electricity	fair
	water	excellent
	gas	insignificant
Community	residence	fair
	health and recreation	excellent
	education	fair
Own Welfare Facilities	-	-

IV. INVENTORIES

(End of 1967)

Inventories	Actual value (1000 US \$)	Number of months
TOTAL	488	
- Production materials	4	0.5
- Other input materials	271	2
- Work-in-process	143	1.5
- Finished products	70	0.25

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours
Shift hours/day (*)	8.3	8.3	8.3
Actual hours/year	2,200	2,200	2,200
Actual days/year	265	265	265

(*) Actual; normal working hours: 8 hrs./day.

IV. MANNING TABLE

(Number of persons)

(1967 average)

	Total	A	B	C	D	E	F
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ALL SHOPS & UNITS:

	74	8	2	25	4	18	17
				81		24	18

1 Primary operative shops

- Exploitation of raw material	10	1	1	6	2	-	-
- Preparation of raw material	18	-	-	4	2	6	6
- Production of clinker	21	2	1	6	-	6	6
- Cement milling	-	8	-	3	-	3	2
- Packing and dispatch shop	17	5	-	6	-	3	3

2 Auxiliary operative units

- Repair & maintenance	23	3	-	16	-	4	-
- Mechanical shop	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-
- Utilities control	8	-	-	5	-	2	-
- Product & material storage	-	-	-	-	-	-	-
- Off-site transport	9	-	-	9	-	-	-
- Guards, cleaners, etc.	4	-	-	4	-	-	-

3 Auxiliary non-operative units

- Production management	15	3	-	12	-	-	-
- Research & development	3	1	-	2	-	-	-
- Sales unit	6	4	-	2	-	-	-
- Accounting	6	6	-	-	-	-	-
- General administration	2	2	-	-	-	-	-

V. ANNUAL PRODUCTION

(1967)	Vr. of first prod.	Quantity produced Unit	Quantity Produced	Avg. unit price ex factory (US \$)	Total output value (1000 US \$)
Products (or group of products)					
Portland cement	1949	t	205,456	14.0	2,874
Cement and lime mixture (special product)	1951	t	24,403	12.4	302
Others	-	-	..	..	6
TOTAL VALUE OF PRODUCTION:				3,182	

VI. VALUE ADDED

(1967)	Total value (1000 US \$)
1. Annual wages & salaries - Operative workers (123 persons)	252
- Non-operative workers (27 persons)	92
2. Other payments for employees	84
3. Annual depreciation	345
- Machinery & equipment	261
- Buildings & other facilities	94
- Non-physical capital assets	1
4. Rents paid	6
5. Interest & royalties	17
6. Sales tax	132
7. Other indirect business taxes	+
8. (-) Subsidies	-
9. Corporate income before tax	672
TOTAL VALUE ADDED:	

DESCRIPTION OF MAJOR PRODUCTS:

Cement-lime mixture: Similar qualities like mortar after water and sand have been added; frost-resistant.

Continuous production of cement and cement-lime mixture.

Packing units: Both products are packed in sacks of 50 kg.

Terms of delivery: Prompt.

MARKET ASPECTS:

Consumers of products:

Construction companies.

EXPORT:

Total annual export: No exports.

Major products	To Western countries	To Eastern countries	To Developing countries

Sales organisation:

Own sales organisation; 2 representatives for both wholesalers and retailers.

Market and competition:

Share in the domestic market: 3.6% has been allotted by the cement cartel.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity Consumed	% Import	Average import duties	Total consumption value 1000 US \$	Total consumption value 1000 US \$
1. Energy and water						
TOTAL					566	
- Electricity	000 kWh	19,263	-	-	234	
- Mineral coal	t	19,310	-	-	293	
- Fuel oil	t	1,370	-	-	39	
2. Production materials					470	
TOTAL:						
- Limestone	t	213,153 (*)	-	-	-	
- Clay	"	60,851	-	-	36	
- Gypsum	"	15,649	-	-	90	
- Slag	"	36,919	-	-	65	
- Roasted pyrites	"	2,518	-	-	35	
- Cement	"	16,701	-	-	244	
TOTAL VALUE OF CONSUMPTION:						1,980

(*) Internally supplied.

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (II.1.)		Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Ave. Age (yrs)	Remarks	Further details:
i) Various machines (quarry)	..	337	426	6	-		i) Electro pneumatic large-hole drilling machine; supplier country: Fed.Rep. of Germany; installed in 1960.
ii) Various machinery (rock crushing plant)	..	4	12	20	SH		ii) Special lorries.
iii) Preparation of raw material for shaft furnace	1	74	116	20	SH		iii) Digger; special trucks.
Preparation of raw material for rotary kiln	1	197	252	6	-		iii) Clay drying plant, grinder, mixing silos for unsintered raw dust, storage tanks.
iv) Production of clinker in shaft furnace	1	101	147	20	SH		iv) Lepol grating, rotary kiln, clinker cooling equipment, slag crusher, clinker storage equipment, cranes.
Production of clinker in rotary kiln	1	619	832	7	-		v) Cement mills, silos, packing machines.
v) Cement mill I	1	43	97	28	Ob		
" " II	1	108	135	6	-		
" " III	1	348	406	3	-		
Packing and loading equipment, silo	..	662	851	6	-		
Electric motors	..	255	348	6	-		
Transformers	..	15	19	4	-		
Repair shop equipment	..	27	35	7	-		

CAPACITY POWER:

Process equipment:

- electric motors kW 5,300

Generating equipment:

- installed capacity kVA -

Major primary operative shops	Kind of process involved	Mechanization:		C: modern standard	D: apparently short of today's standard	E: almost outdated	Automation:	
		A: most advanced	B: considerably up standard				I: fully automated	II: semi-automated
Exploitation of raw material	Exploitation of lime-stone with blasting every 2 - 3 months	B	{ III	20,000 t/month/5 hrs/daily				20%
Preparation of raw material	Exploitation of clay, lime crushing, clay crushing and drying, production of raw dust, processing of granulated material	B	II	..	8 hrs/daily		50%	90%
Production of clinker	Sintering in rotary kilns (1500° C)	C	II	27,000 t/month/ 24 hrs/daily				
Cement milling	Milling of clinker in ball mills together with blast furnace slag and gypsum	B	II	450-470 t/day/ 24 hrs/daily			90%	100%
Packing and dispatch shop	Filling into sacks of 50 kg or shipment in wagons or silo-trucks	B	II	45 t/hr/ 24 hrs/daily				
				1,500 t/day	24 hrs/daily			90%

CAPACITY UTILIZATION:

Full capacity output

250,000 t

Current utilization

Based on 3-shift operation.

up Approximate %
to 30 40 50 60 70 80 90 100

Major products (or processes)

Portland cement

Cement and lime mixture (special product)

X

X

Full-capacity output can only be reached after additional machines for the preparation of raw material for both the shaft furnaces and the rotary kiln have been installed.

Shortage of unsintered raw dust.

No further operatives required.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
1963	2,530	142	-
1964	2,760	145	-
1965	3,320	144	-
1966	3,880	143	-
1967	3,990	144	-
1968	..	..	-

2. Investments in the past:

From 1955 to 1966:	Approximate amount 1960 US \$
3,540	

3. Future Plan:

From 1968 to 1973:	970

Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
2,530	142	-
2,760	145	-
3,320	144	-
3,880	143	-
3,990	144	-
..	..	-

Type of investment
Rotary kiln, 2 cement mills, packaging department, silo, drying department and oil furnace, crushing plant

In 1967 :

192

Additions to product-mix, rationalisation of machinery and equipment, other primary production facilities.
No additional man-power requirements.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these six groups are included in underlined ones.

(1964)
Industry Manufacture of cement

(ISIC Code: 334)

1. Size groups by number of persons employed:	No. of establish.	No. of emplo.	Av. W. & S. per pers. 1960 US \$	Av. gross prod. val/ per pers. 1960 US \$	Av. value added/gross prod. ratio (%)	2. Size groups by annual value of production 1960 US \$:	No. of establish.	No. of emplo.	Av. W. & S. per pers. 1960 US \$	Av. gross prod. val/ per pers. 1960 US \$	Av. value added/gross prod. ratio (%)
up to 19	2	C	C	C	C	up to 20	-	-	C	C	C
20 - 99	2	C	C	C	C	20 - 40	1	C	C	C	C
100 - 499	12	<u>4,082</u>	<u>2,272</u>	<u>14,977</u>	<u>56</u>	40 - 200	1	C	C	C	C
500 - 999	1 ↑	C	C	C	C	200 - 400	-	-	-	-	-
over 1,000	-	-	-	-	-	400 - 2,000	3	298	2,143	12,447	52
						over 2,000	12	3,784	2,282	15,176	51
TOTAL	17	<u>4,082</u>	<u>2,272</u>	<u>14,977</u>	<u>56</u>	TOTAL	17	<u>4,082</u>	<u>2,272</u>	<u>14,977</u>	<u>56</u>

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service			
1 Engineering study	3 Trained and managerial personnel	8 Import and export promotion	
2 Financial assistance	6 Industrial training	9 Admission of foreign labour	
3 Industrial services	7 Technical consultancy		
4 Equipment supply, installation & maintenance			

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects
1				The company reports interest to prepare engineering studies for the production of cement. Feasibility studies could be drafted particularly for African countries.
2				Financial assistance could be provided through the supply of second-hand machinery and equipment.
3				Know-how contracts and rights could be made available.
4				The following machines and equipment could be supplied : 2 complete rotary kilns with water screen and new gratings; special bins; fixtures for material transport (clinker) with a capacity of 150 t/day.
5				In connection with a know-how contract the company is willing to send technicians, foremen and chemists abroad.
6				Laboratory workers, technical supervisors, kiln-operators, mill operators and mining engineers could receive in-plant training.
7				Pre-investment studies could be provided.
9				Foreign operatives could be admitted seasonally.

XII. SUPPLEMENTS & NOTES

History of production and investment:

Production started in 1949. In 1956 the establishment surpassed the break-even point with an output of US \$ 1,161,000.

Depreciation policy:

The straight-line as well as the accelerated methods of depreciation are applied.

Labour training services:

Qualified workers are sent abroad to participate in advanced training courses to become production foremen.

Inventories policy:

On the average the value of finished products in stock amounts to about 3.2% of the total value of production. The company delivers cement and cement-lime mixture immediately after production.

Major Products: Portland cement and clinker.
Capable of producing annually 650,000 t of Portland cement and 100,000 t of clinker based on 2-and 3-shift operation.

Reporting Unit: A one-establishment enterprise; privately owned; production started in 1933; approximately 240 employees; no exports; very favourable location regarding road and railway communications; total production process is characterized by high-standards of rationalization and mechanization. Member of a cartel which regulates sales by a quota system.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave age (Yrs.)
1 Primary process equipment (including installation cost)	5,672	6,889	
TOTAL	5,447	6,629	-
- Process equipment *	225	261	-
- Hand tools & apparatuses			
2 Buildings	1,880	2,395	
TOTAL			
- Primary industrial buildings (total floor space: 13,000 m ²)	881	1,025	6
- Auxiliary buildings	611	700	6
- Warehouses	140	175	8
- Office administration buildings	242	275	7
- Housing	16	180	..
3 Auxiliary facilities (excl buildings)	808	921	
TOTAL			
- Internal power equipment			
- Laboratory facilities	150	203	5
- Means of transportation	563	604	4
- Office equipment	95	114	7
TOTAL PHYSICAL FIXED ASSETS (excluding land)	8,360	10,165	
4. Other fixed capital assets	3,150	3,833	
TOTAL			
- Land (total acreage: 1,250,000 m ²)			
- Land improvements (t.s. 79,356 ")	2,125	2,156	-
- Others	1,025	1,281	-

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

	up to 175 US\$	175 -250 US\$	250 -375 US\$	375 -500 US\$	500 -1,000 US\$	over 1,000 US\$
1. Local non-operatives						
- Managerial staff	-	-	-	-	-	2
- Technical staff	-	1	9	5	2	2
- Commercial staff	-	4	7	6	3	-
2. Local operatives						
- Foremen	-	-	6	-	-	-
- Skilled operatives	-	38	93	-	-	-
- Semi-skilled operatives	-	13	35	-	-	-
- Unskilled operatives	-	9	6	-	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

*NR: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport	external long distance	excellent
	internal long distance	excellent
	local and city	excellent
Utilities:	electricity	excellent
	water	excellent
	gas	-
Community:	residence	fair
	health and recreation	fair
	education	excellent
Own Welfare Facilities:	Cafeteria; aid fund.	

III. INVENTORIES

(End of 1968)

Inventories	Actual value (1000 US \$)	Number of months
TOTAL:	498	
- Production materials	255	approx. 1
- Other input materials	210	0.5
- Work-in-process	33	1 day
- Finished products		

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours
Shift hours/day			hours
8	8	8	hours
Actual hours/day	1,760	1,760	1,760
Actual days/year	220	220	220

IV. MANNING TABLE

(number of persons)

(1968 average)

	Total	1st Shift			2nd Shift		3rd Shift	
		A	B	C	D	E	F	G
ALL SHOPS & UNITS:								
1. Primary operative shops	118	5	16	17	6	37	37	37
- Quarry	42	1	9	5	1	13	13	13
- Preparation of raw materials	18	3	3	2	-	5	5	5
- Kilne	21	-	3	3	1	7	7	7
- Cement milling department	13	1	1	2	1	4	4	4
- Packing department	24	-	-	5	3	8	8	8
2. Auxiliary operative units	91	4			87			
- Repair & maintenance	46	1			45			
- Mechanical shop	-	-			-			
- Tooling shop	-	-			-			
- Utilities control	9	2			7			
- Product & material storage	-	-			-			
- Off-site transport	9	-			9			
- Guards, cleaners, etc.	21	-			21			
- Cafeteria	6	1			5			
3. Auxiliary non-operative units	32	32			-			
- Production management	4	4			-			
- Research & development	1	1			-			
- Sales unit	11	11			-			
- Accounting	6	6			-			
- General administration	10	10			-			

V. ANNUAL PRODUCTION

(1968)	Vt. of first prod.	Quantity produced Unit	Quantity	Avg. unit price on factory US \$	Total output value 1000 US \$
Products for group of products					
Bottles	1939	t	10,500	165.8	1,741
Wide mouthed glass containers	"	"	10,600	162.8	1,726
Lighting glasses	"	"	800	483.8	387
Others		"	"	"	75
TOTAL VALUE OF PRODUCTION:				3,929	

VI. VALUE ADDED

(1968)	Total value 1000 US \$
1. Annual wages & salaries	646
- Operative workers	528
1 318 persons	
- Non-operative workers	118
1 40 persons	
2. Other payments for employees	356
3. Annual depreciation	289
- Machinery & equipment	258
- Buildings & other facilities	24
- Non-physical capital assets	7
4. Rents paid	105
5. Interest & royalties	-
6. Sales tax (see also p.4. XII)	177
7. Other indirect business taxes	18
8. (-) Subsidies	-
9. Corporate income before tax	573
TOTAL VALUE ADDED:	2,164

DESCRIPTION OF MAJOR PRODUCTS:

All products are manufactured in series. Products are packed on pallets (400 - 2,000 pieces). Company has to keep large inventories due to seasonal fluctuation of sales. Exports are insignificant because the rather low-priced products cannot be charged with too high transportation costs.

Standard products can be delivered immediately, special products are manufactured to order. Designing is aimed at developing light weight bottles and wide mouthed glass containers which can meet increasing competition of substituting materials.

MARKET ASPECTS:

Consumers of products:

The company sells its products to the following industries: Food, beverage, dairy, condiment processing, fish canning, pharmaceutical, chemical, cosmetics.

Sales organisation:

The company's central office employs 7 salesmen who engage in direct selling to the above mentioned industries.

Share in domestic market:

25% of the total market for container glass and 100% of the market for wide mouthed bottles

Competition in the market:

Increasing trend to substitute glass-made for plastic-made containers.

EXPORT:

Total annual export: US \$ 275,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Petroleum lamps	-	-	100%
Lighting glasses	100%	-	-

Export areas:

Central African countries, UK.

Export price policy:

Company exports only 7% of its production. In order to maintain existing export markets frequently only recovery of variable production costs possible.

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed Unit	Quantity	% import	Average import duties	Total consumption value 1000 US \$	Total consumption value 1000 US \$
1. Energy and water						
TOTAL:					304	
- Electricity	000 kWh	9,200	-	-	114	
- Fuel oil	t	5,540	-	-	145	
- Propane gas	t	1,180	-	-	45	
2. Production materials (*)					551	
TOTAL:						
- Quartz sand (SiO_2)	t	13,500	100	-	147	
- Soda (Na_2CO_3)	"	4,000	-	-	221	
- Lime stone ($CaCO_3$)	"	3,100	-	-	23	
- Glauber's salt (Na_2SO_4)	"	280	-	-	4	
- Salpeter ($NaNO_3$)	"	160	-	-	18	
- Feldspar	"	1,450	-	-	31	
- Dolomite	"	650	-	-	4	
- Glass granulate	"	3,900	-	-	97	
- Dyeing, decolorising and refining materials	"	11	-	-	6	
TOTAL VALUE OF CONSUMPTION:					1,765	

(*) Due to melting process applied, production materials lose about 20% of their weight.

(*) Including costs for repair of machinery and melting furnace amounting to US \$ 39,000.

V. ANNUAL PRODUCTION

(1968)	Yr. of first prod.	Quantity produced	Avg. unit price ex factory (US \$)	Total output value (000 US \$)
Products for group of products		Unit	Quantity	
Portland cement	1933	000 t	650	17.4
Clinker	1933	000 t	100	13.8
Discounts granted to customers				(-) 1,925
TOTAL VALUE OF PRODUCTION:				10,782

VI. VALUE ADDED

(1968)	Total value (000 US \$)
1. Annual wages & salaries	
- Operative workers (200 persons)	1,652
- Non-operative workers (41 persons)	237
2. Other payments for employees	—
3. Annual depreciation	173
- Machinery & equipment	1,334
- Buildings & other facilities	121
- Non-financial capital assets	—
4. Rentals paid	—
5. Interest & royalties	—
6. Sales tax	1,208
7. Other indirect business taxes	—
8. (-) Subsidies	—
9. Corporate income before tax	2,412
TOTAL VALUE ADDED:	6,102

DESCRIPTION OF MAJOR PRODUCTS:

3 types of standard cement of superior quality than that set by national standards.

MARKET ASPECTS:

Consumers of products:

Construction industry, concrete products and ready-mixed concrete manufacturing establishments.

Sales organisation:

Own sales department. Since 1967 member of a cartel which regulates sales by a quota system.

Share in the domestic market:

Nationally: 1.9.. Regionally: 15..

Competition in the market:

Competition with other regional cement manufacturing establishments.

EXPORT:
Total annual export No exports.

Major products	To Western countries	To Eastern countries	To Developing countries

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed	Average import value	Total consumption value (000 US \$)
	Unit	Quantity	
1. Energy and water			
TOTAL:			2,227
- Electricity	000 kWh	63,243	—
- Heavy oil	t	64,409	—
			1,273
2. Production materials			247
TOTAL:			
- Limestone	000 t	1,122 (*)	—
- Gypsum	000 t	200	100
- Slag	000 t	40	—
			57

	Total consumption value (000 US \$)
3. Other materials & supplies	1,158
TOTAL:	254
- Packaging material (paper bags)	—
- Parts, supplies & services	696
- Other materials & supplies	208
4. Business services purchased	1,041
TOTAL:	919
- Transportation, storage & insurance	—
- Communication, advertising & other business services	122
5. Work performed by subcontractors	—
TOTAL:	—
TOTAL VALUE OF CONSUMPTION:	4,073

(*) Self-supplied.

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1.)	Number	Original Purchase Value (\$'000 US \$)	Replace- ment value (\$'000 US \$)	Av. Age (yr)	Remarks	Supplier country	Year of instal- lation	Daily running time	Capacity output	Source:	
										SM Purchased second-hand	OB Obsolete
Large hole drilling machines	3	34	43	9		Germany, P.R.	..	8 hrs	..		
Jaw crushers	2	308	378	9		Germany, P.R.	..	16 hr	240 t/hr		
Raw stiles (200 t)	2	480	630	8		Germany, P.R.	..	16 hrs	200 t/hr		
Kilns	3	2,238	2,683	7		Germany, P.R.	..	16 hrs	200 t/hr		
Cement mills (80 t)	2	1,474	1,800	5		Germany, P.R.	..	16-24 hrs	80 t/hr		
Excavators (2.5 m ³ scoop)	4	272	305	5		Germany, P.R.	..	..	..
Cranes	2	169	195	6		Germany, P.R.	..	..	..
Transformer	1	30	42	9	SI	-	..	..	..
Central switchboard	1	442	553	3		Germany, P.R.	1956	..	..

CAPACITY POWER: Process equipment: electric motors kW 14,000											
Generating equipment: installed capacity kVA 630											

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		Automation:		Further details
		A more advanced	B considerably more of today's standard	C machine standard	D apparently more of today's standard	
Quarry		B	II			
Preparation of raw materials		A	I			
Kilns		A	I			
Cement milling department		B	II			
Packing department		B	II			

CAPACITY UTILIZATION:

Full capacity output: US \$ 12,500,000.

Current utilization: base-1 on 2- and 3-shift operation.

Major products for processing	Up to 20	Approximate %							
		20	30	40	50	60	70	80	90
Quarry (1 shift)	x								
Preparation of raw materials (2 shifts)		x							
Kilns (2 shifts)		x							
Cement milling department (2-3 shifts)		x							
Packing department (2 shifts)		x							

Establishment operates at full-capacity. Process equipment will have to be expanded soon.

IX. HISTORY & PLAN

1. Performance in the past:	Total output (\$'000 US \$)		No. of persons employed	Total output (\$'000 US \$)
	Year: 1963	1964		
1964	10,080	232		
1965	12,290	241		
1966	12,970	245		
1967	12,970	230		
1968	12,710	241		

2. Investments in the past:	Approximate amount (\$'000 US \$)		Type of investment
	From 1955 to 1968:	1968:	
	17,350	650	Machinery and buildings
			Machinery and buildings

3. Future Plan:	From 1969 to 1970:		Expansion and rationalisation of machinery and auxiliary facilities.	
	2,500			

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in total.

(1968)	Industry	Manufacture of cement		(HSIC Code: 334)
		No. of firms	No. of employees	
1. Size groups by number of persons employed:				
Up to 19	-	-	-	-
20 - 99	1	C	C	C
100 - 499	21	194	2,435	19,445
500 - 999	16	5,767	2,429	19,333
over 1,000	3	2,516	2,466	18,164
			C	60
TOTAL:	53	22,153	2,454	18,138
				55
2. Size groups by annual sales of sales (\$'000 US \$):				
up to 1,250	4	236	2,398	15,971
1,250 - 2,500	17	1,766	2,426	17,382
2,500 - 6,250	17	3,517	2,439	19,646
6,250 - 12,500	9	3,675	2,459	20,568
12,500 - 25,000	3	2,516	2,466	18,164
over 25,000	3	10,443	2,460	16,945
				55
TOTAL:	53	22,153	2,454	18,138
				55

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- | | | |
|--|---------------------------------------|-------------------------------------|
| 1. Engineering study | 3. Technical and managerial personnel | 5. Import and export management |
| 2. Financial assistance | 4. Industrial training | 6. Technical consultancy |
| 7. Industrial services | 7. Technical consultancy | 8. Administration of foreign labour |
| 6. Equipment supply,
Installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
2				Company seems to be interested in a joint venture.
5				Provision of experts and other skilled personnel.

XII. SUPPLEMENTS & NOTES

Inventories policy:

On the average the value of the stock of finished products amounts to 0.3% of the total value of production. Cement is sold immediately after completion of the production process.

Depreciation policy:

The enterprise applies both the straight line method and the declining balance method as well.

Bottlenecks in the plant:

Lack of production capacity could partly be solved.

Current problems:

Company complains about decreasing profits caused by an unfavourable cost-price relationship. Due to keen competition prices cannot be increased. Therefore, further investments required to rationalise the production process in order to save, e.g. personnel costs.

Training courses:

Company maintains a considerable programme to train its staff: electronic data processing, cost accounting, management development.

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (8.1):

	Number	Output Production Value (\$00 US \$)	Output Sales Value (\$00 US \$)	Ave. Age (yrs)	Remarks	Supplier country	Year of installa- tion	Daily running time	Capacity output
Large hole drilling machines	3	34	43	9		Germany, F.R.	..	8 hrs	..
Jaw crushers	2	306	378	9		Germany, F.R.	..	16 hr	240 t/hr
Raw mills (200 t)	2	480	630	8		Germany, F.R.	..	16 hrs	200 t/hr
Kilns	3	2,238	2,683	7		Germany, F.R.	..	16 hrs	200 t/hr
Cement mills (80 t)	2	1,474	1,800	5		Germany, F.R.	..	16-24 hrs	80 t/hr
Excavators (2.5 cu. scoop)	4	272	305	5		Germany, F.R.	..	..	..
Cranes	2	169	195	6		Germany, F.R.	..	..	..
Transformer	1	30	42	9	SH	-	..	..	..
Central switchboard	1	442	553	3		Germany, F.R.	1956	..	..

CAPACITY POWER:

Process equipment:

- electric motors kW 14,000

Generating equipment:

- installed capacity kVA 630

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Manufacture		C: medium number		Automation	
		A: most advanced	B: moderately high standard	D: apparently start of today's standard	E: about standard	F: fully automated	G: unautomated
Quarry			B	II			
Preparation of raw materials			A	I			
Kilns			A	I			
Cement milling department			B	II			
Packing department			B	II			

CAPACITY UTILIZATION:

Full-capacity output: US \$ 12,500,000.

Current utilization: based on 2- and 3-shift operation.

Major processes by process	Approximate %									
	W	M	S	O	R	S	T	U	V	X
Quarry (1 shift)	x									
Preparation of raw materials (2 shifts)	x									
Kilns (2 shifts)	x									
Cement milling department (2-3 shifts)	x									
Packing department (2 shifts)	x									

Establishment operates at full-capacity. Process equipment will have to be expanded soon.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output (\$00 US \$)	No. of employees	Total exports (\$00 US \$)
1963	9,700	220	-
1964	10,800	232	-
1965	12,250	241	-
1966	12,970	245	-
1967	12,970	230	-
1968	12,710	241	-

2. Investments in the past:

From 19 55 to 19 60 :	Approximate (\$00 US \$)	Type of investment
In 1968 :	17,350	Machinery and buildings
In 1968 :	650	Machinery and buildings

3. Future Plan:

From 19 69 to 19 70 :	Approximate (\$00 US \$)	Expansion and rationalization of machinery and auxiliary facilities.
	2,500	

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in total.

(1968)

Industry Manufacture of cement

HSNC-Code: 334 1

1. Size groups by number of persons employed	No. of units	No. of emp.	Av. W. & S. per unit (\$00 US \$)	Av. sal. per emp. (\$00 US \$)	Av. value output/sales ratio (%)	2. Size groups by annual sales (\$00 US \$)		Av. W. & S. per unit (\$00 US \$)	Av. sal. per emp. (\$00 US \$)	Av. value output/sales ratio (%)
						No. of units	No. of emp.			
up to 19	-	-	-	-	-	up to 1,250	4	236	2,398	46
20 - 99	10	6	C	C	C	1,250 - 2,500	17	1,766	2,486	51
100 - 199	21	2,694	2,435	19,445	53	2,500 - 6,250	17	3,517	2,439	54
200 - 499	16	5,767	2,429	19,333	53	6,250 - 12,500	9	3,675	2,459	56
500 - 999	3	2,516	2,466	18,164	60	12,500 - 25,000	3	2,516	2,466	56
over 1,000	3	C	C	C	C	over 25,000	3	10,443	2,450	55
TOTAL:	53	22,153	2,454	18,138	55	TOTAL:	53	22,153	2,454	18,138

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of assistance		
1. Engineering study	3. Technical and managerial personnel	6. Import and export promotion
2. Financial assistance	4. Industrial training	7. Administration of foreign labour
3. Technical services	5. Technical consultancy	
4. Equipment supply,		
Installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
2				Company seems to be interested in a joint venture.
5				Provision of experts and other skilled personnel.

XIII. SUPPLEMENTS & NOTES

Inventories policy:

On the average the value of the stock of finished products amounts to 0.3% of the total value of production. Cement is sold immediately after completion of the production process.

Depreciation policy:

The enterprise applies both the straight line method and the declining balance method as well.

Excess capacity in the plant:

Lack of production capacity could partly be solved.

Current problems:

Company complains about decreasing profits caused by an unfavourable cost-price relationship. Due to keen competition prices cannot be increased. Therefore, further investments required to rationalize the production process in order to save, e.g. personnel costs.

Training courses:

Company maintains a considerable programme to train its staff: electronic data processing, cost accounting, management development.

Major Products:

Cement and mortar binding agents.

Total annual output amounted to about 220,000 t based on 2- and 3-shift operation. Full-capacity output approximates US \$ 4 million.

Reporting Unit:

A one-establishment enterprise; privately owned; founded in 1936; 125 employees.

Company is of regional significance only. Member of a cartel which regulates sales by a quote system.

No exports.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1968 US \$)	Replace- ment value (1968 US \$)	Ave. age (Yrs.)
1 Primary process equipment (including installation cost)			
TOTAL	3,955	5,403	
- Process equipment	3,875	5,303	12
- Hand tools & apparatuses	80	100	5
2 Buildings	200	267	
TOTAL			
- Primary industrial buildings			
- Total floor space: 5,200 m ²	96	119	8
- Auxiliary buildings	34	41	6
- Warehouses	-	-	-
- Office/administration buildings	70	107	12
- Housing			
3 Auxiliary facilities (excl. buildings)	196	234	
TOTAL			
- Internal power equipment	-	-	-
- Laboratory facilities	28	35	4
- Means of transportation	137	171	4
- Office equipment	21	28	7
TOTAL PHYSICAL FIXED ASSETS (excluding land)	4,341	5,904	
4 Other fixed capital assets	323	534	
TOTAL			
- Land (total acreage: 620 m ²)	39	116	-
- Land improvements (t. agr. 30,800 m ²)	237	350	-
- Others	47	68	-

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

	Up to 175 US\$	175 -250 US\$	250 -375 US\$	375 -500 US\$	500 -1,000 US\$	over 1,000 US\$
1. Local non-operatives						
- Managerial staff	-	-	-	-	1	1
- Technical staff	-	-	5	5	2	-
- Commercial staff	-	4	4	4	1	-
2. Local operatives						
- Foremen	-	-	4	1	-	-
- Skilled operatives	-	8	39	-	-	-
- Semi-skilled operatives	-	7	13	-	-	-
- Unskilled operatives	-	11	5	-	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	3	-	-	-
- Unskilled operatives	-	2	1	-	-	-
- Semi-skilled operatives	-	1	3	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	poor
	local and city	insignificant

Utilities:	electricity	poor
	water	excellent
	gas	insignificant

Community:	residence	fair
	health and recreation	fair
	education	poor

Own Welfare Facilities: Canteen, rented holiday facilities.

III. INVENTORIES

(End of 1968)

	Actual value (1968 US \$)	Number of months
Inventories	97	
TOTAL:	97	
- Production materials	2	0.1
- Other input materials	25	0.3
- Work-in-progress	50	0.5
- Finished products	20	0.2

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day: (*)	9	9	9	hours
Actual hours/year:	2,560	2,360	2,345	hours
Actual days/year:	287	287	287	days

(*) Actual; normal shift hours: 8 hrs./day

IV. MANNING TABLE

(Number of persons)

(1968 average)

Skill categories: A Supervisory staff and foremen (for all shifts)
B Skilled operatives
C Semi-skilled operatives (machine operators)
D Unskilled operatives

	Total	A	B	C	D	1st shift	2nd shift	3rd shift
ALL SHOPS & UNITS:	125	21		21				
1. Primary operative shops	56	4	3	18	8	11	12	
- Quarry	11	1	2	6	2	-	-	
- Preparation of raw materials	14	2	-	5	3	2	2	
- Kiln	13	1	-	2	-	5	5	
- Cement milling department	8	-	1	2	1	2	2	
- Packing and shipping dept.	10	-	-	3	2	2	3	
2. Auxiliary operative units	48	2			46			
- Repair & maintenance	18	1			17			
- Mechanical shop	-	-			-			
- Tooling shop	-	-			-			
- Utilities control	3	1			2			
- Product & material storage	6	-			6			
- Off-site transport	5	-			5			
- Guards, cleaners, etc.	7	-			7			
- Others	9	-			9			
3. Auxiliary non-operative units	21	21			-			
- Production management	3	3			-			
- Research & development	1	1			-			
- Sales unit	6	6			-			
- Accounting	4	4			-			
- General administration	7	7			-			

V. ANNUAL PRODUCTION

(1968) Products for group of products	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (1000 US \$)
Portland cement	1935	t	202,000 (*)	15.6	3,156
Mortar binding agent	1966	t	16,800	12.3	208

(*) Including internal consumption of 60 t.

TOTAL VALUE OF PRODUCTION: 3,364

VI. VALUE ADDED

(1968)	Total value (1000 US \$)
1. Annual wages & salaries	111
- Operative workers (98 persons)	—
- Non-operative workers (27 persons)	—
2. Other payments for employees	14
3. Annual depreciation	355
- Machinery & equipment	37
- Buildings & other facilities	11
- Non-physical capital assets	—
4. Rentals paid	1
5. Interest & royalties	46
6. Sales tax	357
7. Other indirect business taxes (*)	1
8. () Subsidies	—
9. Corporate income before tax	411

(*) Motor vehicle tax. TOTAL VALUE ADDED: 1,678

DESCRIPTION OF MAJOR PRODUCTS:

3 different types of standard Portland cement.

Iron Portland cement and blast-furnace cement.

Mortar binding agents.

All products are of superior quality than that determined by national standards.

MARKET ASPECTS:

Consumers of products:

Construction industry, ready-mixed concretes and concrete product manufacturing establishments.

EXPORT:
Total annual export

No exports.

Major products

To
Western
countriesTo
Eastern
countriesTo
Developing
countriesSales organisation:

Own sales department. Since 1967 also member of a cartel which regulates sales by a quota system.

Share in the domestic market:

Competition with other regional cement manufacturing establishments.

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed Unit	Quantity	% Import	Avg. import rate	Total consumption value (1000 US \$)
1. Energy and water					792
TOTAL:					
- Electricity	000 kWh	23,228	-	-	349
- Coke breeze	t	6,647	-	-	104
- Heavy oil	t	18,400	-	-	320
- Light oil	t	594	-	-	19
2. Production materials					250
TOTAL:					
- Limestone (*)	t	..	-	-	-
- Roasted pyrites	t	1,252	-	-	12
- Gypsum	t	12,443	-	-	55
- Slag	t	8,303	-	-	62
- Clinker	t	11,112	-	-	116
- Others	..	..	-	-	5

(*) Internal supply.

3. Other materials & supplies	Total consumption value (1000 US \$)
TOTAL:	470
- Packaging material (paper sacks)	111
- Parts, supplies & services	341
- Other materials & supplies	18
4. Business services purchased	166
TOTAL:	79
- Transportation, storage & insurance	—
- Communication, advertising & other business services	77
5. Work performed by subcontractors	—
TOTAL:	—

TOTAL VALUE OF CONSUMPTION: 1,678

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)	Number	Original Purchase Value MDD US \$0	Repre- sentative value MDD US \$0	Av. Age (yr.)	Remarks	Supplier country	Daily running time	Output capacity	Source:		
									S/P Purchased second-hand Or Obsolete R Rented SC Self-constructed		
Raw crushers	2	205	275	8	SH	Germany, F.R.	2 shifts	200 t/hr			
Raw mills	2	150	200	30	OB	Germany, F.R.	2-3 shifts	240 t/hr			
Shaft kilns	3	100	2,500	30	OB	Germany, F.R.	2 shifts	180 t hr			
Cement mills	4	620	1,025	18	SH	Germany, F.R.	2 shifts	120 t hr			
Rotary kiln	1	700	840	8	SH	Germany, F.R.	[2-3] shifts	200 t hr			
Crushing plant	1	540	600	2	-						
Mixing plant	1	135	163	2	-						
Filters	16	400	525	4	SH						
Silos and hoppers	12	258	380	10	SH						
Cranes	2	46	77	15	SH						
Excavators	2	64	96	10	SH						
Electrical motors	131	67	76	8	SH						
Others	..	591	795	8	SH						

CAPACITY POWER:

Process equipment:
 -elect. motors 19 7,092
 -others " 1,672

Generating equipment:
 installed capacity kVA -

Capacity of primary operative shops:	Type of process involved	Mechanization:		Further details	Automation:	I. Fully automated	II. semi-automated
		A most advanced	B moderately high standard				
Quarry		C	II				
Preparation of raw materials		R	II				
Kilns		A	I				
Cement milling department		A	I				
Packing and shipment		B	II	Capacity: 1,600 paper sacks of 50 kg per hour.			

Capacity utilization:	Full-capacity output:		OC 3-4, 1960/61.		IX. HISTORY & PLAN		Total output MDD US \$0	No. of persons employed	Total exports MDD US \$0	
	Current utilization:	Based on 2- and 3-shift operation.	Approximate %	Major products for processing	Up to 100	Appropriate output MDD US \$0	Type of investment			
Quarry (1 shift)	x									
Preparation of raw materials (2-3 shifts)	x									
Kilns (2 shifts)		x								
Cement milling department (2-3 shifts)	x									
Packing and shipment	x									
The establishment could not fully utilize its capacity due to lack of skilled labour. In order to reach full-capacity output based on 3-shift operation the following labour requirements have to be met: 1st shift: 3 non-operatives, 12 operatives; 2nd and 3rd shifts: 4 operatives each.										
1. Performance in the past:	Year: 1963		1964		1965		1966		1967	
	2,370		3,010		3,340		3,740		2,990	
	102		128		141		139		128	
2. Investments in the past:	From 1961 to 1967:		3,710		Rotary kilns, cement-mill, shaft kiln		In 1967:		90	
									Machinery and buildings.	
3. Future Plan:	From 1969 to 1972:		2,000		Rationalisation and expansion of machinery and equipment, primary and auxiliary production facilities, expansion of welfare facilities.					

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY											
C = confidential; figures of these size groups are included in total.											
(1962)											
Industry Manufacture of cement									WMC-Code: 334-1		
1. Size groups by number of persons employed	No. of comp.	No. of comp.	Av. W. & S. per pers. MDD US \$0	Av. sales per pers. MDD US \$0	Av. sales/comp. ratio MDD US \$0	2. Size groups by annual sales of MDD US \$0:	No. of comp.	No. of comp.	Av. W. & S. per pers. MDD US \$0	Av. sales per pers. MDD US \$0	Av. sales/comp. ratio MDD US \$0
up to 19	-	-	-	-	-	up to 250	-	-	-	-	-
20 - 99	10	C	C	C	C	250 - 500	-	-	-	-	-
100 - 199	21	C	2,694	2,435	53	500 - 1,250	4	236	2,398	15,971	40
200 - 499	16	5,767	2,429	19,333	53	1,250 - 2,500	17	1,766	2,486	11,382	51
500 - 999	3	2,516	2,466	18,164	60	2,500 - 6,250	17	3,517	2,439	19,646	54
over 1,000	3	C	C	C	C	over 6,250	15	16,634	2,460	17,930	55
TOTAL	53	22,153	2,454	18,138	55	TOTAL	53	22,153	2,454	18,138	55

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services:
- 1. Engineering study
 - 2. Financial assistance
 - 3. Industrial services
 - 4. Equipment supply, installation & maintenance
 - 5. Trained and managerial personnel
 - 6. Industrial training
 - 7. Technical consultancy
 - 8. Import and export transaction
 - 9. Admission of foreign labour

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of projects
5				No possibility to provide experts and skilled workers since the company's own labour resources are too scarce.
6, 9				The establishment is prepared to employ as well as to train foreign workers.

XII. SUPPLEMENTS & NOTES

Depreciation policy:

The establishment applies both the straight-line and accelerated methods of depreciation.

Current problems:

Lack of labour force especially in the preparation, packing and shipping departments.

Training courses:

Occasionally technical and commercial staff members attend management development courses.

Inventories policy:

On the average the value of the stock of finished products amounts to 0.6% of the total value of production. Cement is sold immediately after completion of the production process.

Major Products: Sintered magnesite (refractory material and mortars) and magnesite bricks. In 1967 annual output amounted to about 245,000 t of magnesite products based on 8-shift operation.

Reporting Unit: A decentralized five-establishment enterprise, 4 branches being engaged in the same line of activities (total summarizing all 5 establishments); privately owned; about 3,000 employees; largest employer in this region; partly licensed production; own research activities (100 employees); 10% exports.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (000 US \$)	Replacement value (000 US \$)	Avg age (Yrs)
1 Primary process equipment (including installation cost)	1,140	1,140	
TOTAL	1,140	1,140	
- Process equipment	1,140	1,140	
- Hand tools & apparatuses	1,140	1,140	
2 Buildings	1,109	1,109	
TOTAL	1,109	1,109	
- Primary industrial buildings	1,109	1,109	
- Central floor spaces	1,109	1,109	
- Auxiliary buildings	181	181	
- Warehouses	181	181	
- Office/administration buildings	181	181	
- Housing	181	181	
3 Auxiliary facilities (excl. buildings)	1,109	1,109	
TOTAL	1,109	1,109	
- Internal power equipment	60	60	
- Laboratory facilities	100	100	
- Means of transportation	127	127	
- Office equipment	649	649	
TOTAL PHYSICAL FIXED ASSETS (excluding land)	3,358	3,358	
4 Other fixed capital assets	1,109	1,109	
TOTAL	1,109	1,109	
- Land (total acreage)	61	61	
- Land improvements	11,109	11,109	
- Others	11,109	11,109	

*See Details of fixed equipment and agents of primary operatives shown on Part Three (Section VIII).

EXTERNAL CONDITIONS:

Transport	external long distance	fair
	internal long distance	"
	local and city	"
Utilities	electricity	excellent
	water	"
	gas	fair
Community	residence	excellent
	health and recreation	fair
	education	fair
Own Welfare Facilities	-	-

III. INVENTORIES

(End of 1967)

	Actual value (000 US \$)	Number of months
Inventories	1,677	
TOTAL	1,677	
- Production materials	1,160	4
- Other input materials	1,10	4
- Work-in-process	1,033	1
- Finished products	617	1-3

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	-	-	hours
Actual hours/year	1,933	-	-	hours
Actual days/year	241	-	-	days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of personnel)

(1967 monthly average)

	Up to 1-10 US\$	10-14 US\$	14-16 US\$	16-20 US\$	20-25 US\$	Over US\$
1. Local non-operatives	-	-	-	-	-	13
- Managers	-	-	-	-	30	17
- Engineers	-	-	-	45	51	-
- Technicians	-	-	-	45	52	-
- Accountants	-	-	-	34	67	9
- Sales officers	-	-	12	67	3	-
- Clerks and typists	-	12	12	11	75	-
- Supervisors and foremen	-	-	-	11	-	-

2. Local operatives

- Supervisors (*)	-	-	699	-	-
- Foremen	-	-	1,094	-	-
- Skilled operatives	-	-	-	-	-
- Machine operators	-	-	-	-	-
- Craftsmen	-	-	-	-	-
- Truck drivers	-	-	-	-	-
- Unskilled operatives	63	6	107	-	-
- Other full-time operatives	-	-	323	-	-
- Part-time operatives	-	-	-	-	-

3. Foreign employees

- Managerial staff	incl. in 1. and 2.
- Technical staff	
- Other skilled operatives	
- Unskilled operatives	

(*) Company considers them as local non-operatives.

IV. MANNING TABLE

(Number of personnel) (*)

(1967 average)

Skill categories: A. Supervisory staff and foremen (for all shifts)
B. Skilled operatives
C. Semi-skilled operatives/machine operators
D. Unskilled operatives

ALL SHOPS & UNITS:

Total	A	B	C	D	2nd Shift	3rd Shift
2,868	481	234	2,347	-	-	-
1,532	116	224	1,148	44	-	-

1. Primary operative shops

Mining	313	26	135	136	16	-
Flootation	47	6	3	38	-	-
Shaft works	161	11	9	139	-	-
Preparation of ore	36	4	1	31	-	-
Mortars and other refractory material manufacturing	20	1	15	4	-	-
Brick manufacturing	145	35	60	633	17	-
Loading	206	31	1	163	11	-
Accumulator shop	4	-	-	4	-	-

2. Auxiliary operative units

Repair & maintenance	905	74	831	-	-
Mechanical shop	-	-	-	-	-
Tooling shop	-	-	-	-	-
Utilities control	142	21	121	-	-
Product & material storage	49	14	35	-	-
Off-sites transport	30	1	29	-	-
Guards, cleaners, etc.	127	2	125	-	-
Others (forestry and wood processing dept.)	37	15	92	-	-

3. Auxiliary non-operative units

Production management	431	291	140	-	-
Research & development	83	45	38	-	-
Sales unit	71	71	-	-	-
Accounting	26	26	-	-	-
General administration	235	133	102	-	-

(*) Break-down into shifts not possible due to different working hours in individual establishments.

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (S.1.2)	Number	Original Purchase Value 1960 US \$1	Replace- ment value 1960 US \$1	Av. Age (yrs)	Supplier country	Year of instal- lation	Daily running time	Capacity output/ day	Remarks:		
									A: Purchased second-hand	B: Obsolete	C: Awarded
Melting furnaces	1	329	387	3	-	Germany, F.R.	1965	24 hrs	75 t		
Mixing and weighing plant	1	97	110	5	-	"	1964	24 "	150 t		
Automatic glaze producing machines	5	581	735	7	-	Sweden	1960-1964	24 "	..		
Cooling furnaces	6	251	279	6	-	Germany, F.R.	1960-1965	24 "	max. 30 t		
Feeding machines	5	97	147	7	-	Sweden	1960-1964	24 "	..		
Conveyor belts	4	39	39	3	-	Switzerl.	1965	24 "	..		
Shrinking oven	1	8	8	-	-	Germany, F.R.	1968	24 "	..		
Screen printing machines	3	12	14	4	-	Italy	1964	8-16 "	30,000 bottles		
Glory hole	1	46	46	3	-	Germany, F.R.	1966	24 "	50,000 bottles		
Grinding machine	1	25	25	-	-	France	1968	16 "	..		
Lathes	4	..	39	10	-						
Killing machines	2	..	19	10	-						
Compressors	7	..	74	10	-						
Stainless trucks	5	39	50	3	-						

CAPACITY POWER:

Process equipment:
- electric motors kW 1,500Generating equipment:
installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Modernization:		Further details	Capacity/day:
		A: most advanced	B: considerably high standard		
Glass melting department	Melting and refining of glass at a temperature of 1,500°C	B	II		75 t
Glass processing department	Pressing, blowing and cooling of hollow glass ware	C	I		75 t
Grinding and screen printing department		C	II		
Grinding and packing dept.		C	III		75 t

CAPACITY UTILIZATION:

Full-capacity output: 25,000 t of glass products.

Current utilization: Based on 3-shift operation.

Major products for processing

up to 30 40 50 60 70 80 90 100

x x x x x x x x

Glass melting department x

Glass processing department x

Grinding and screen printing department x

Glass grinding and screen printing are only minor activities of the company. Since not all products have to be treated that way, only 60% of the existing capacity could be utilized. Seasonal fluctuations of sales account for varying utilisation of the melting furnace as well as the automatic glass producing machines. In order to reach full-capacity output no additional operatives have to be employed.

IX. HISTORY & PLAN

1. Performance in the past:	Approximate output 1960 US \$1	Total output 1960 US \$1	No. of persons employed	Total exports 1960 US \$1	
Year: 1963		2,740	405	150	
1964		3,010	466	170	
1965		2,910	419	180	
1966		3,280	388	210	
1967		3,530	359	240	
1968		3,930	358	270	
2. Investments in the past:		Approximate amount 1960 US \$1	Type of investment		
From 1955 to 1959:		580	Replacements		
" 1960 " 1963:		1,350	Melting furnace, automatic glass producing machines, cooling furnaces, compressors		
" 1964 " 1965:		1,470	Automatic glass producing machines, cooling furnaces, glory hole, compressor		
" 1966 " 1967:		620	Transportation and control equipment, warehouse		
3. Future Plan:		From 1969 to 1971:	1,160	Increase of melting capacity	

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in the underlined figures.

(1964)

Industry Glass and glass products manufacturing (SIC Code: 332)

1. Size groups by number of persons employed	No. of small	No. of emp.	Av. W. &. S. per pers. (US \$1)	Av. gross prod. val./per pers. (US \$1)	Av. value added/gross prod. ratio (%)	2. Size groups by annual value of production 1960 US \$1		Av. W. &. S. per pers. (US \$1)	Av. gross prod. val./per pers. (US \$1)	Av. value added/gross prod. ratio (%)
						No. of medium	No. of large			
up to 19	10	25	1,881	6,701	6%	up to 20	6	1,090	3,495	60
20 - 99	5	181	1,398	8,411	43	20 - 40	1	C	C	C
100 - 499	10	6,187	1,920	5,370	68	40 - 200	3 ↓	1,437	8,005	52
500 - 999	3 ↑	C	C	C	C	200 - 400	2 ↑	C	C	C
over 1,000	1	C	C	C	C	400 - 2,000	8	1,779	1,829	65
						over 2,000	7	4,473	1,950	5725
TOTAL:	29	6,393	1,905	5,461	67	TOTAL:	29	6,393	1,905	5,461

V. ANNUAL PRODUCTION

(1967)	V. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (1000 US \$)
Products for group of products					
Sintered magnesite, refractory material, and mortars	..	t	120,913	56.3	6,812
Magnesite bricks	..	t	123,814	178.1	22,057
Others					717
TOTAL VALUE OF PRODUCTION:				29,586	

DESCRIPTION OF MAJOR PRODUCTS:

Sintered magnesite, refractory material: Transportation in bulk and in sacks of 50 kg.
Time of delivery: 2 - 3 months.

Bricks and magnesite bricks: Packed on palettes and in cases of 250 - 1,000 kg.
Time of delivery: 2 - 3 months.

MARKET ASPECTS:

Staple products for re-sales:

Magnesite bricks, magnesite chrome bricks, special compounds, containing magnesite, magnesite sinter.

Consumers of products:

Steel, metalworking, cement and glass industries.

Sales organisation:

Direct selling in the domestic market; general agent in a neighbouring state; representatives in potential buyer countries.

Market and competition:

- (a) Extent of the market: Enterprise is capable of supplying consumers all over the world. Company considers itself unfavourably located with regard to proximity of markets.
- (b) Share in the domestic market: second-largest company in this line.
- (c) Share in the foreign market: no indication can be given.
- (d) Competition with imported products: no serious competition, because of top quality of own products.

VI. VALUE ADDED

(1967)	Total value (1000 US \$)
1. Annual wages & salaries	7,612
- Operative workers (2,439 personnel)	4,921
- Non-operative workers (484 personnel)	2,691
2. Other payments for employees	—
3. Annual depreciation	2,610
- Machinery & equipment	1,243
- Buildings & other facilities	1,367
- Non-physical capital assets	10
4. Rentals paid	32
5. Interest & royalties	204
6. Sales tax	116
7. Other indirect business taxes	24
8. (-) Subsidies	—
9. Corporate income before tax	848
TOTAL VALUE ADDED:	14,397

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity	% import	Average import unit price	Total consumption value (1000 US \$)	Total consumption value (1000 US \$)
1. Energy and water						
TOTAL:					1,999	2,083
- Electricity	000 kWh	31,408		479	479	471
- Fuel oil	t	16,015		446	446	—
- Diesel oil	t	566		58	58	674
- Gas	m3	43,493		1,016	1,016	938
2. Production materials					4,099	7,008
TOTAL:					4,099	3,424
- Crude magnesite (out of own mines)	t	514,817	-	-	-	3,584
- Chrome ore	t	19,927	100	—	1,112	—
- Sheet metal	t	4,118	-	—	725	—
- Sintered magnesite	t	14,723	100	—	1,133	—
- Special magnesite	t	22,963	82	—	641	—
- Others	..	..	53	—	488	—
TOTAL VALUE OF CONSUMPTION:					15,189	

MIDDLE EUROPE : 339 - (1)

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1.1)	Number	Original Purchase Value (\$100 US \$)	Replaced value (\$100 US \$)	Av. age (yrs)	Remarks	Supplier country	Year of installation	Daily running time	Capacity output per month	
									partly SC	1950-65
Magnesite furnaces (pit furnaces and 2 rotary kilns)	18	3,785	5,027	..		FR.Germ.	1950-65	24 hrs	1,200 t	3,600 "
Flotation plant	1	1,413	1,876	5		FR.Germ.	1962	16 "	5,000 "	
Briquetting plant	1	863	1,146	..		"	1962-67	16 "	5,000 "	
Presses	25	1,272	1,689	..		Austria, FR.Germ., USA	1930-68	24 "	500 "	
Tunnel kilns	3	1,580	2,098	..	SC		1956, 1951 1967	24 "	5,300 "	
Crude magnesite crushing equipment	2	316	421	5		Austria, FR.Germ.	1962	12 "	27,000 "	
Cable car	1	337	48	..						10,000 "

CAPACITY POWER:
Process equipment:
 electric motors kW 24,731
 - other prime movers for generating equ. 3,074
Generating equipment:
 installed capacity kVA 378

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shop	Kind of process involved	Mechanization		Automation		Further details
		A: most advanced	B: considerably high standard	C: medium standard	D: appreciably short of today's standard	
Mining		A	III			
Flotation		B	III			
Shaft works		C	III			
Preparation of ores		A	III			
Mortars and refractory material manufacturing		C	III			
Brick manufacturing		C	III			
Loading		C	III			
Accumulator		D	III			

CAPACITY UTILIZATION:

Full capacity output: approx. 300,000 t

Current utilization: based on 4-shift operation

Major products for processing	up to 20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
	No. of operat.								

80 - 90% of the existing capacity is utilized.

No mention was made as to whether full-capacity output would require any additional employees or not.

IX. HISTORY & PLAN

1. Performance in the past: Year: 1963	Total output (\$100 US \$)	No. of persons employed	Total exports (\$100 US \$)
1964	22,910	3,124	..
1965	30,460	3,148	..
1966	35,220	3,127	..
1967	33,090	3,015	..
1968	29,530	2,869	..
	-	-	-
2. Investments in the past: From 1960 to 1967:	Approximate amount (\$100 US \$)	Type of investment	
	17,400	Flotation plant, mining equipment, tunnel kiln, brickmaking presses, storage facilities for production material, crushing plants, building and instruments for research activities.	
3. Future Plan: From 1968 to 1973:	10,500	Rationalization of process equipment and processing methods. Reduction of operatives employed by 5 - 10%.	

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of this size group are included in the underlined figures.

(1967) Manufacture of non-metallic mineral products not elsewhere classified (ISIC-Code: 339-1)

1. Size groups by number of persons employed:	No. of empd.	No. of empd.	Av. w. &. s. per pers. (\$100 US \$)	Av. gross prod. val./per pers. (\$100 US \$)	Av. value added/gross prod. ratio (%)	2. Size groups by annual value of production (\$100 US \$):		Av. w. &. s. per pers. (\$100 US \$)	Av. gross prod. val./per pers. (\$100 US \$)	Av. value added/gross prod. ratio (%)
						No. of empd.	No. of empd.			
up to 19	1,039	4,017	1,066	1,161	59	20	571	1,219	6,729	58
20 - 99	149	5,043	1,361	1,602	61	20 - 40	198	1,383	7,007	60
100 - 499	24	4,065	1,979	1,591	63	40 - 200	310	1,765	7,135	63
500 - 999	2	0	0	0	0	200 - 400	74	2,626	7,621	60
over 1,000	3	7,627	2,506	11,449	57	400 - 2,000	51	5,241	8,041	60
						over 2,000	9	9,098	10,902	57
TOTAL:	1,217	22,350	2,073	8,923	59	TOTAL:	1,217	22,350	2,073	8,923

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services:		
1. Engineering study	5. Technical and managerial personnel	9. Import and export management
2. Financial assistance	6. Industrial training	10. Utilization of foreign labour
3. Industrial services	7. Technical consultancy	
4. Equipment supply	8. Installation & maintenance	

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects
				No information available.

XII. SUPPLEMENTS & NOTES

The company consists of one head-office and 5 establishments, 3 of which engage in mining and processing of domestic and imported manganese ore (establishment no.1-3). One establishment (no. 4) produces packing material (wooden boxes, pallets and crates), another one (no. 5) is solely responsible for company-conducted research activities. The study summarizes all 5 establishments. Additional data about the individual establishments are available only to a limited extent:

1. Fixed capital assets (in 000 US \$)

	Establishment					Central office	Total
	No.1	No.2	No.3	No.4	No.5		
1. Land	134	100	94	1	29	60	414
2. Buildings	2,120	4,251	1,641	140	333	64	8,104
3. Primary process equipment	3,242	7,133	2,660	104	386	31	13,856
4. Auxiliary facilities and other fixed capital assets	1,433	2,710	1,632	37	505	6,406	10,794
TOTAL	6,929	14,494	6,007	262	1,263	6,473	40,493

2. Working capital (in 000 US \$)

	Establishment					Central office	Total
	No.1	No.2	No.3	No.4	No.5		
A. Inventories							
1. Production materials	388	726	-	48	-	1,167	1,167
2. Other materials and supplies	214	337	112	1	-	430	430
3. Work-in-process	377	517	16 ^a	142	-	614	614
4. Finished products	272	302	6 ^a	10	-	677	677
TOTAL	1,279	1,549	348	217	-	3,697	3,697
B. Liquid assets							
1. Cash-on-hand	9	6	3	1	1	10	10
2. Checks and bills	-	-	-	-	-	130	130
3. Marketable securities and bonds	-	-	-	-	-	611	611
4. Accounts receivable	-	-	-	-	-	6,876	6,876
5. Advance payments made by the company	-	-	-	-	-	1,029	1,029
TOTAL	9	6	3	1	1	11,167	11,167

3. Value added (in 000 US \$)

	Establishment					Central office	Total
	No.1	No.2	No.3	No.4	No.5		
1. Annual wages and salaries(operatives)	2,034	2,319	1,054	118	68	29	5,519
" " " " (non-)"	403	397	223	30	207	732	1,992
2. Other payments for employees	830	796	374	39	65	501	2,605
3. Annual depreciation	484	1,372	468	18	114	195	2,611
4. Rentals paid	4	4	1	-	5	18	92
5. Interest and royalties	-	-	-	-	37	362	379
6. Sales tax	-	-	-	-	-	116	116
7. Other indirect business taxes	75	93	34	3	5	14	214
8. Corporate income before tax	-	-	-	-	-	848	848
TOTAL	3,930	4,971	2,104	208	498	2,735	14,396

Depreciation policy:

Both the straight line method and the accelerated method are applied.

Inventories policy:

About 30% of primary production material is imported from overseas. Due to this fact large stocks of raw materials have to be kept.

Major Products: Concrete products.
Capable of producing annually 44,000 m³ of concrete products based on 1-shift operation.
Full-capacity output amounts to US \$ 920,000.

Reporting Unit: A two-establishment enterprise, privately owned. Founded in 1920; 107 employees; no exports.
One establishment manufactures concrete products, the other one is a construction company.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1960 US \$)	Replace- ment value (1960 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)	324	384	
TOTAL	295	343	3
- Process equipment *	29	36	..
- Hand tools & apparatuses			
2. Buildings	149	176	
TOTAL			
- Primary industrial buildings (total floor space: 3,600 m ²)	145	168	..
- Auxiliary buildings	-	-	-
- Warehouses	-	-	..
- Office administration buildings	3	3	..
- Housing	-	-	..
3. Auxiliary facilities (excl. buildings)	42	45	
TOTAL			
- Internal power equipment	-	-	-
- Laboratory facilities	-	-	-
- Means of transportation	70	81	3
- Office equipment	12	14	4
TOTAL PHYSICAL FIXED ASSETS (excluding land):	554	665	
4. Other fixed capital assets	71	103	
TOTAL			
- Land (total acreage: 43,000 m ²)	69	11	-
- Land improvements	-	-	-
- Others	?	?	-

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(196 monthly average)

up to
US\$ US\$ US\$ US\$ US\$ US\$

1. Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists

2. Local operatives

- Supervisors
- Foremen
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

No data available.

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section III).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	fair
	local and city	fair - poor
(*) Utilities:		
	electricity	fair
	water	fair
	gas	insignificant
(*) Community:	residence	insignificant
	health and recreation	fair
	education	insignificant
Own Welfare Facilities:	-	
(*) Only referring to concrete product manufacturing establishment.		

III. INVENTORIES

(End of 1967)

	Actual value (1960 US \$)	Number of months
Inventories	397	
TOTAL	17	0.5
- Production materials	-	-
- Other input materials	-	-
- Work-in-process	370	4
- Finished products		

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	9	-	-	hours
Actual hours/year	1,955	-	-	days
Actual days/year	217	-	-	

IV. MANNING TABLE

(Number of persons)

(End of 1967)

	Total	Shift categories			A. Supervisory staff and foremen (for all shifts)	B. Skilled operatives	C. Semi-skilled operatives (machine operators)	D. Unskilled operatives
		1st Shift	2nd Shift	3rd Shift				
ALL SHOPS & UNITS:								
1. Primary operative shops	107	21	-	-	85	5	18	25
- Concrete blocks						4	15	3
- Pre-fabricated elements and ceiling beams	29	2	2	1				
- Construction department	56	3	12	20	21	-	-	-
2. Auxiliary operative units	8	2	-	-	6	-	-	-
- Repair & maintenance	6	-	-	-				
- Mechanical shop	-	-	-	-				
- Tooling shop	-	-	-	-				
- Utility control	2	2	-	-				
- Product & material storage	-	-	-	-				
- Off-site transport	-	-	-	-				
- Guards, cleaners, etc.	-	-	-	-				
3. Auxiliary non-operative units	14	14	-	-	-	-	-	-
- Production management	3	3	-	-				
- Research & development	-	-	-	-				
- Sales unit	2	2	-	-				
- Accounting	9	9	-	-				
- General administration	-	-	-	-				

V. ANNUAL PRODUCTION

(1967)	Yr. of first prod.	Quantity produced Unit	Quantity Produced	Avg. unit price on factory MUS \$	Total output value MUS US \$
<u>Concrete products:</u>					
Solid and hollow blocks, form stones, partition wall bricks, ceiling beams, slip tubings, sidewalk pavement, fence posts, auxiliary binders, sewage-treatment plants;	1946	m3	35,500 (*)	22.1	786

(*) Not including 800 m³ supplied to other branch establishment.

TOTAL VALUE OF PRODUCTION: 1,111 MUS US \$

VI. VALUE ADDED

(1967)	Total value MUS US \$
1. Annual wages & salaries	316
- Operative workers	143
1. 96 personnel	
- Non-operative workers	16
1. 21 personnel	
2. Other payments for employees	71
3. Annual depreciation	56
- Machinery & equipment	..
- Buildings & other facilities	..
- Non-physical capital assets	..
4. Rentals paid	3
5. Interest & royalties	34
6. Sales tax	51
7. Other indirect business taxes	-
8. (-) Subsidies	7
9. Corporate income before tax	74

TOTAL VALUE ADDED: 495 MUS US \$

DESCRIPTION OF MAJOR PRODUCTS:

1. Production department: Concrete blocks (solid and hollow), partition wall bricks, auxiliary binders, slip tubings, fence posts and ceiling beams: serial production. Ceiling beams are produced under license.

2. Construction department: Company maintains an own construction department which partly utilizes the concrete products manufactured by the production department.

MARKET ASPECTS: (Only referring to concrete product manufacturing establishment).

Consumers of products:

Construction companies.

Sales organisation:

The owner (75%) as well as 2 regional representatives (25%) are in charge of sales.

Sales area:

Due to large weight of final products only limited sales area.

Competition in the market:

Leading position in a regionally limited market.

EXPORT:

Total annual export: No exports.

Major products	To Western countries	To Eastern countries	To developing countries

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	% import	Average duty	Total consumption value MUS US \$
1. Energy and water				
TOTAL:				21
- Electricity	..	-	-	7
- Coal and coke	..	-	-	7
- Petrol, diesel and liquid fuels	..	-	-	6
- Water	..	-	-	1
2. Production materials				383
TOTAL:				
- Cement, ballast material and gravel	..	-	-	297
- Building material (*)	..	-	-	86

3. Other materials & supplies	Total consumption value MUS US \$
TOTAL:	42
- Packaging material (timber, etc.)	8
- Parts, supplies & services	30
- Other materials & supplies	4
4. Business services purchased	170
TOTAL:	66
- Transportation, storage & insurance	104
- Communication, advertising & other business services	62
5. Work performed by subcontractors	-
TOTAL:	-

TOTAL VALUE OF CONSUMPTION: 616 MUS US \$

(*) Not including internal supply of 800 m³.

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (B.1.3)

	<u>Number</u>	<u>Original Purchase Value US \$ '68</u>	<u>Repre- sent- ative value US \$ '68</u>	<u>Av. Age (yrs)</u>	<u>Supplier country</u>	<u>Year of instal- lation</u>	<u>Daily running time</u>	<u>Output capacity</u>
Jolting molding machine	1	7	10	4	Germany, F.R.	1961	..	(*) 450 lifts per shift
Slab casting machine	1	5	6	3				
Automatic concrete block machine	1	5	6	3	Germany, F.R.	1964	5 hrs	700 lifts per shift
Impact breaker	..	2	3	2				
Face shovel	..	14	15	4				
Various mixers, hoists	..	12	15	3				
Cranes	..	10	12	2				
Mixers, vertical elevators	..	9	10	3				
Generating unit	1	4	5	3				
Gantry crane	1	6	7	2				
Concrete pipe plant	1	16	19	2				
Automatic dosing machine (fixed instal.) (*)	1	14	16	2				
Miscellaneous specialized machines	..	25	31	-				
Other machines and moulds	..	173	203	3				

(*) Year of installation: 1962; daily running time: 6 hrs; output capacity: 1,500 liftings per shift

For further technological characteristics see page 4/Supplements.

CAPACITY POWER:

Process equipment:
 - electric motors kg
 - other motors "

Generating equipment:
 - installed capacity kVA 46

CAPACITY OF PRIMARY OPERATIVE SHOPS:

<u>Major primary operative shops</u>	<u>Kind of process involved</u>	<u>Machine</u>	<u>Auton.</u>	<u>Further details</u>	<u>Automation:</u>	<u>I. Fully automated</u>	<u>III. non-automated</u>
Concrete blocks		A	III				
Prefabricated elements and ceiling beams		B	III				

CAPACITY UTILIZATION:

Full-capacity output: Approximately US \$ 920,000
 (Only referring to concrete product manufacturing establishment)

Current utilization: Based on 1-shift operation.

<u>Major products for processing</u>	<u>W</u>	<u>Approximate %</u>
	10 20 30 40 50 60 70 80 90 100	

Concrete blocks

III. HISTORY & PLANS

1. Performance in the past:

	<u>Total output US \$ '68</u>	<u>No. of personnel employed</u>	<u>Total output US \$ '68</u>
Year: 1963	670	..	-
1964	680	..	-
1965	950	160	-
1966	870	148	-
1967	1,110	107	-
1968	1,200	-135	-

2. Investments in the past:

<u>Approximate amount US \$ '68</u>	<u>Type of investment</u>
From 1964 to 1967: (*) 190 in 1967: 60	New plant

(*) Only referring to establishment manufacturing concrete products.

3. Future Plan:

From 1967 to 1971: 190

Additional process equipment,
 rationalization of product-line
 as well as of production methods;
 25 operatives will then be
 employed less.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in those underlined.

(1964) (Only referring to manufacturing branch of enterprise.)
 Industry Other non-metallic mineral building materials (NEMC-Code: 339)

Manufacturing

<u>1. Size groups by number of persons employed</u>	<u>No. of estab.</u>	<u>No. of emp.</u>	<u>Av. W. &amp. S. per pers. US \$ '68</u>	<u>Av. gross prod. val/ per pers. US \$ '68</u>	<u>Av. value additionals prod. val/ per pers. US \$ '68</u>	<u>Av. W. &amp. S. per pers. US \$ '68</u>	<u>Av. gross prod. val/ per pers. US \$ '68</u>	<u>Av. value additionals prod. val/ per pers. US \$ '68</u>
Up to 19	681	2,541	1,668	8,973	57			
20 - 99	99	3,781	1,894	8,502	59			
100 - 499	11	4,381	2,115	2,987	26			
500 - 999	1	C	C	C	C			
over 1,000	1	C	C	C	C			
TOTAL:	793	10,703	1,931	9,222	57			
TOTAL:	793	10,703	1,931	9,222	57			

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services:		
1 Engineering studies	5 Technical and managerial personnel	8 Import and export management
2 Financial assistance	6 Industrial training	9 Acquisition of foreign labour
3 Industrial services	7 Technical consultancy	
4 Equipment supply Installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects
				No information available.

XIII. SUPPLEMENTS & NOTES

History of investment:

The enterprise was originally founded in 1920 as a construction company. Production of concrete products started in 1946 and accounts now for 65% of total sales. Both plants are operated under one management (owner). Due to constant improvements of the machines utilised the establishment's process equipment still meets modern standards.

Depreciation policy:

Both the straight-line and accelerated methods are applied.

Inventories policy:

Heavy fluctuations in inventories due to seasonally varying building activities.

On the average the value of semi-finished and finished products of the concrete product manufacturing branch amounts to 30% of the total value of production.

Technological features:

The jolting molding machine as well as the automatic proportioning machine are charged by a central concrete-mixer (which is also used by the building company). The moulds are inserted into these two machines, filled with a concrete-mixture and jolted. Thereafter, blocks are manufactured on the ground by a jolting molding machine (machine moves on sliding bars afterwards lifting!) as well as on wooden panels by an immovable proportioning machine (wooden panels are moved away by a conveyor-belt system). Both, the amount of liftings and of wooden panels filled are indicators of the plant-capacity. The output depends on how frequently moulds are changed and on the size of the blocks.

Major Products:

Rolled, drawn, forged and cast metal products. Annual capacity output amounts to over 35,000 t, on a three-shift operation in primary process shops.
A two-establishment enterprise, founded in 1946; privately owned; foreign capital participation 25.3%.

Reporting Unit:

I. FIXED CAPITAL ASSETS		Year of installa- tion	Orig. pur- chase value (1000 US \$)	Replace- ment value (1000 US \$)					
(End of 1966)									
1. Primary process equipment									
TOTAL			2,230	..					
- Process equipment			2,230	..					
- Hand tools & apparatuses			incl. above	..					
- Cost of installation									
2. Primary industrial building			521	600					
TOTAL			521	600					
(total floor spaces: 18,600 m ²)									
3. Auxiliary facilities			218	236					
TOTAL			125	160					
- Water, steam, electricity, cooling & storing			47	44					
- Transportation facilities									
- Administrative facilities			106	32					
- Laboratory facilities			-	-					
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):			3,029	..					
4. Other fixed capital assets			42	424					
TOTAL			42	424					
- Land (total acreage: 106,550 m ²)									
DETAIL OF PROCESS EQUIPMENT (in t): Supplier country									
		Year of installa- tion	Orig. pur- chase value (1000 US \$)	Replace- ment value (1000 US \$)					
Plant 1:									
- Furnace shop	1948-62	398.9							
- Ingots "	1948-65	10.0							
- Casting "	1948-66	367.9							
- Finishing "	1948-66	217.4							
- Maintenance shop	1948-65	37.4							
- Laboratory	1948-66	38.1							
- Social workshop	1949-64	13.7							
- Common services shop	1948-65	154.6							
- Storage shops	1948-56	21.8							
- Machinery not in use	1949-65	53.7							
- Models department	1949-65	9.2							
- Construction department	1951-66	5.1	..						
- Cast balls "	1952-65	37.8							
- Rolling "	1951-66	247.5							
- Forged balls "	1964-65	38.5							
- Cold drawing "	1963-65	70.4							
- Forging "	1964-65	343.8							
- Tard "	"	35.7							
- Bronze "	1948-53	7.6							
Plant 2:									
- Furnace dept.	1961-65	16.9							
- Ingot "	1961-66	48.7							
- Finishing "	1961-66	47.8							
- Maintenance	1961	18.1							
- Laboratory	1961	1.0							
- Common service shop	1964	1.1							

HISTORY OF INVESTMENT:

The factory was constructed in 1946. Trial as well as commercial production started in 1948. The first profits were made in 1950, when 80% of the capacity was utilized. The different shops have been gradually expanded and renovated; about 50% of the total original purchase value of process equipment represents the installations after 1960.

ADVANTAGES CONNECTED WITH THE PARTICIPATION OF FOREIGN CAPITAL:

- Training of personnel
- Importation of machinery and installation
- Supply of "know-how"

CAPACITY POWER:	Daily	Generating equipment:	- kVA
Process equipment:		Installed capacity:	-
Electric motors: 24,000 kWh		- electric furnaces	87,000 kVA
- other prime movers 3,000 kWh			

EXTERNAL CONDITIONS:
Transport: Long distance and local areas, excellent.

Utilities: Electricity, fair; water and gas, excellent.

Community: -

II. INVENTORIES AND WORKING CAPITAL

Un 000 US \$

(End of 1966)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL:			1,687
- Production materials	367	- Cash (hand/bank)	102
- Other input materials	457	- Market. sec. & bonds	19
- Work-in-process	157	- Short-term investment	442
- Finished products	862	- Prepaid expenses	54
		- Accounts receivable	1,070

3. Desired working capital

Number of months	Value
	2,086

III. MANPOWER TABLE(number of persons)
 A = Member operators
B = Other operators

(1966 average)	Total	1st shift	2nd shift	3rd shift	A + B
ALL SHOPS & UNITS:	900	301	248	114	
1. Primary operative shops	554	128	85	212	92

Plant 1

- Foundry	204	54	28	82	40
- Furnaces	103	14	21	34	34
- Products for trituration	53	20	-	20	18
- Rolling, forging, wire drawing	152	40	36	76	-
Plant 2 *	37	..	..	..	..

* Details not available; but includes auxiliary operative workers.

2. Auxiliary operative units

- Repair and maintenance	94	50	28	16
- Mechanical shop	-	-	-	-
- Utilities control	18	6	6	6
- Product & material storage	6	5	1	-
- Off-site transport	23	23	-	-
- Guards, cleaners, etc.	7	6	1	-

3. Auxiliary non-operative units

- Production management	198	(Separately located. Includes sales agents working outside the enterprise's premises)
- Research & development	198	
- Sales unit		
- General administration		

WORKING TIME PER OPERATIVE WORKER:

- Normal hours/day: 8 hours - Normal days/year: 300 days

- Actual hours/year: 2,400 hours

CAPACITY OF OPERATIVE SHOPS:

IV. ANNUAL PRODUCTION

(1966)		Quantity produced		Nominal capacity output	Unit * price in factory US \$	Total production value 1000 US \$
Yr. of first prod.	Unit	Output				
- Castings	t	3,368	6,600	812.6	2,737	
- Rolled products	t	11,460	18,000	159.0	1,822	
- Drawn "	t	373	1,200	347.6	128	
- Forged "	t	273	1,200	519.9	142	
- Products for trituration	t	5,116	8,400	208.6	1,067	
- Other revenue from scrap etc.			..		295	
TOTAL VALUE OF PRODUCTION:				6,191		

* Unit price (average) excludes sales tax.

Exports: None

Capacity:

The nominal capacity estimates are based on three shifts for the primary processing department and two shifts (partly one shift) for finishing departments. The overall rate of utilization is approximately 60%. But with allowance for nominal stoppage for maintenance and expense adjustments, the feasible capacity output would be somewhat less than a 35,000 t/yr level. The enterprise does not seem to consider the current rate of utilization as a serious problem.

V. ANNUAL CONSUMPTION

(1966)		Quantity consumed		% imported	Total consumption value 1000 US \$
	Unit	Purchase			
1. Energy and water					
TOTAL:					655
- Electricity	000 Kwh	29,456	-		584
- Diesel oil	000 l	428,000	-		12
- Gas	000 m ³	6,727	-		59
2. Production materials					
TOTAL					2,076
- Metal slugs and chips	t	21,779	55		1,600
- Ferro-alloys	t	858	9		476

VII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)		Industry group: Iron and steel basic industries (INC: 341)			
1. Size groups by number of persons employed	Number of units	Number of emp.	Avg. per pers.	Avg. per unit	Avg. exp. per prod. unit US \$
6 - 15	10	113	947	842	438
16 - 25	11	203	1,007	9,808	81
26 - 75	34	1,994	1,237	10,602	68
76 - 100					
101 - 250	30	5,042	1,394	13,850	73
251 - 500	13	4,978	1,630	19,919	67
over 500	17	29,336	2,364	20,632	35
TOTAL	115	37,666	2,046	18,993	81
2. Size groups by value of annual production 1000 US \$:					
up to 240	26	749	833	3,572	173
240 - 1,600	39	3,996	1,265	7,611	75
over 1,600	48	32,921	2,168	20,725	81
FORMA	115	37,666	2,046	18,993	81

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1966)		Value 1000 US \$
1. Wages & salaries		
- Employees in direct production (700 persons)		910
- Other employees (200 persons)		401
2. Other payments for employees		241
3. Annual depreciation		211
4. Rentals paid		14
5. Interest & royalties		148
6. Sales tax (not incl. in TOTAL)		(74.1)
7. Other ind. bus. taxes		-
8. (-) Subsidies		-
9. Corporate income before tax		410
		2,307

VII. MONTHLY EARNING RATES

(End of 1966)		No. of employees	Average earning rates US \$
1. Local non-operatives			
TOTAL		70	.71
- Managers		7	1,440
- Engineers		7	-
- Technicians		7	-
- Accountants		7	400
- Sales officers		6	400
- Other professional staff		60	200
- Clerks & typists		60	200
2. Local operatives			
TOTAL		166	.81
- Supervisors		5	400
- Foremen		40	.40
- Machine operators		85	.46
- Craftsmen		121	.66
- Truck drivers		15	.66
- Other full-time operatives		500	.64
- Unskilled & part-time operatives		-	-
3. Foreign employees			
TOTAL		2	.640
- Managerial staff		2	1,980
4. Business services purchased			
TOTAL			1,153
- Transport, storage & insurance			
- Communication, advertisements, etc.			
5. Work performed by sub-contractors			
TOTAL			-
			3,884

IX. SUPPLEMENTS

GOVERNMENT POLICIES:

Rates for electricity are among the highest in the world in this industry branch. The lowering of electricity tariff is believed to be essential for the viability of such industries using electrical furnaces.

Major Products: Production of refined antimonial lead. Capable of producing annually 2,160 t on 3-shift operation.

Reporting Unit: One-establishment enterprise, founded in 1958; privately owned, no participation of foreign capital.

I. FIXED CAPITAL ASSETS					II. INVENTORIES AND WORKING CAPITAL					
					In 000 US \$					
(End of 1966)		Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$	(End of 1966)					
1. Primary process equipment			59	76	1. Inventories		2. Liquid assets			
TOTAL			59	76	TOTAL		TOTAL			
- Process equipment		1958	5	6	- Production materials		- Cash (hand/bank)			
- Hand tools & apparatuses			16	20	- Other input materials		- Market, sec. & bonds			
- Cost of installation					- Work-in-process		- Short-term investment			
2. Primary industrial building		1966	10	14	- Finished products		- Prepaid expenses			
TOTAL			10	14			- Accounts receivable			
(total floor space: 1,000 m ²)			21	26	3. Desired working capital					
3. Auxiliary facilities					TOTAL					
TOTAL					- Production materials		- 1st shift operation			
- Water, steam, electricity, cooling & storing		1958/60/62	14	16	- Other input materials		- 2nd shift			
- Transportation facilities		1957 onwards	1	3	- Finished products		- 3rd shift			
- Administrative facilities		1957 onwards	2	2	- Wages & salaries					
- Laboratory facilities			-	-	- Other special items					
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land)			89	116						
4. Other fixed capital assets			3	3						
TOTAL			3	3						
- Land (total acreage: 5,000 m ²)										
DETAIL OF PROCESS EQUIPMENT (in t)					III. MANNING TABLE					
		Supplier country	Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$	Number of persons				
Rotating furnaces		Mexico	1958 1962 1963	3	48	(1966 average)				
Boiler for separation, 10 t		"	1963	1.6	2	Total	A	1st shift	2nd shift	
Boiler for separation, 8 t		"	1961	1.4	1.5	B	A+B	A+B	A+B	
Boilers for separation, 4 t		"	1962	0.3	0.4	60	44	9	7	
						45	16	8	6	
HISTORY OF INVESTMENT:										
Construction of factory and trial production started in 1957, commercial production in 1968, break-even point was reached in 1969. Following investments were made for expansion:										
1957	approx.	US \$	40,000							
"	"	"	40,000							
1960	"	"	40,000							
1962	"	"	40,000							
1966	"	"	120,000							
Other offices:					WORKING TIME PER OPERATIVE WORKER:					
Location		Kind of activity		Number of persons employed	Normal hour/day:		8 hours	Normal day/year:		280 days
Mexico City		Purchasing and selling		12	Actual hour/year:		2,240 hours			
Guadalajara		" " "		3						
Coatzaocelos		" " "		2						
CAPACITY POWER:		Generating equipment:						CAPACITY OF OPERATIVE SHOPS:		
Process equipment: - Electro smelters (15)		Installed capacity kW each						Nominal capacity output of the plant is 2,160 t/year. 69.4% of the capacity is utilized. Nominal capacity output is calculated on a three-shift operation.		
EXTERNAL CONDITIONS:										
Transport: Long distance and local area, excellent.										
Utilities: Electricity, water, average; gas, excellent.										
Community: Residential, health and recreational, educational, poor.										

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1 Engineering study	1 Technical and managerial personnel	4 Import and export transportation
2 Financial assistance	2 Industrial training	5 Administration of foreign labour
3 Industrial services	3 Technical consultancy	
4 Equipment supply, construction & maintenance	7 Technical consultancy	

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects
1				Pre-feasibility studies, production plans and processing methods could be provided.
3				Know-how contracts, patents and rights could be supplied.
5				Personnel, skilled operatives, technicians and managerial staff could be supplied upon demand.
6				Machine operators, repair and maintenance personnel, etc. could be trained on-the-job.
7				Cost estimates for the production of the company's product-mix in developing countries could be furnished.
9				Admission of foreign labourers is not envisaged except for training purposes.

XII. SUPPLEMENTS & NOTES

History of investment:

The company was founded in 1859. Production started one year thereafter. Re-organisation of the production process as well as of the product-mix in 1919. Continuous modernisation of the whole enterprise ever since. Present process equipment meets modern standards.

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

IV. ANNUAL PRODUCTION

(1966)
Products for group of products

	Vr. of Prod.	Quantity produced	Nominal capacity output	Unit price in factory US \$	Total production value 1966 US \$
	Unit	Unit	Unit		
Refined antimonial lead	1958	t	1,500	2,160	246

TOTAL VALUE OF PRODUCTION

160

VI. VALUE ADDED

(1966)	Value 1966 US \$
1. Wages & salaries	
- Employees in direct production (45 persons)	18
- Other employees (15 persons)	21
2. Other payments for employees	10
3. Annual depreciation	11
4. Rentals paid	7
5. Interest & royalties	12
6. Sales tax (not incl. in POTAL)	(12)
7. Other Ind. bus. taxes	2
8. (-) Subsidies	7
9. Corporate income before tax	4
	41

VII. MONTHLY EARNING RATES

(End of 1966)	No. of pers. emp.	Average earning per month US \$
1. Local non-operatives		
TOTAL	5	...
- Managers	1	confidential
- Engineers	1	800
- Technicians	1	200
- Accountants	1	-
- Sales officers	2	400
- Other professional staff	1	-
- Clerks & typists	1	-
2. Local operatives		
TOTAL	50	128
- Supervisors	1	800
- Foremen	1	-
- Machine operators	1	-
- Craftsmen	1	200
- Truck drivers	3	120
- Other full-time operatives	45	112
- Unskilled & part-time operatives	1	-
3. Foreign employees		
TOTAL	-	-
4. Business services purchased		
TOTAL	35	
- Transport, storage & insurance	8	
- Communication, advertisements, etc.	27	
5. Work performed by sub-contractors		
TOTAL	-	
		279

V. ANNUAL CONSUMPTION

	Quantity consumed			Total consumption value 1966 US \$
	Unit	Purchase	% imported	Total rate
1. Energy and water				
TOTAL				12
- Electricity	000 Kwh	139		4
- Gas	000 m3	900		8
- Water	000 m3	(minimum consumption)		

2. Production materials

			Total consumption value 1966 US \$
TOTAL			226
Lead waste	t	2,916	226

3. Other materials & supplies

	Total consumption value 1966 US \$
TOTAL	6

4. Business services purchased

	Total consumption value 1966 US \$
TOTAL	35

5. Work performed by sub-contractors

	Total consumption value 1966 US \$
TOTAL	-

	Total consumption value 1966 US \$
TOTAL	279

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)
Industry group: Non-ferrous metal basic industries (INC: 342)

1. Size groups by number of persons employed	Number of units	Number of emp.	Avg. W. & S. per pers. US \$	Avg. gross prod. val. per pers. US \$	Avg. avg. gross prod. ratio* (%)
up to 25	25				
over 25	72	12,641	1,763	19,945	70
	TOTAL	72	12,641	1,763	19,945
2. Size groups by value of annual production 1966 US \$					
up to 1,600	49	1,362	1,003	6,658	67
over 1,600	27	11,289	1,853	21,532	70
	TOTAL	76	12,651	1,761	19,930

* Output is defined as physical output value.

IX. SUPPLEMENTS

Future plan:

Within a 5-year period, approx. US \$ 160,000 will be invested for expansion of the whole enterprise.

Another 15 persons will be needed then for each of the 3 shifts.

Major Products: Aluminium foils.

Capable of producing annually 5,000 t of rolled aluminium foils. Full-capacity output amounts to US \$ 9,700,000 based on 1- to 3-shift-operation.

Reporting Unit: A one-establishment enterprise; privately owned; founded in 1912; 540 employees. Largest foil rolling mill in the country. Not very favourable location; own research activity; licensed production; 60% exports.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (000 US \$)	Replace- ment value (000 US \$)	Ave. age (Yrs)
1 Primary process equipment (including installation cost)	1,165	6,449	
TOTAL	1,165	6,449	10
- Process equipment			
- Hand tools & apparatuses			
2 Buildings	659	2,684	
TOTAL			
- Primary industrial buildings (total floor space: 33,000 m ²)	618	..	17
- Auxiliary buildings	41	..	10
- Warehouses	-	-	-
- Office administration buildings	-	-	-
- Housing	-	-	-
3 Auxiliary facilities (excl. buildings)			
TOTAL			
- Internal power equipment			
- Laboratory facilities	***)	***)	3
- Means of transportation			
- Office equipment			
TOTAL PHYSICAL FIXED ASSETS (excluding land):	1,824	9,133	
4 Other fixed capital assets	47	.. (**)	
TOTAL			
- Land (total acreage: 96,000 m ²)	20	..	-
- Land improvements (t.a. 33,000 ")	27	..	-
- Others	-	-	-
**) Included in 1.2. Buildings			
***) Included in I.1. Primary process equipment			

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

(Number of personnel)

(196 monthly average)

	Up to	over
	US\$	US\$

1. Location Operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists

2. Local operatives

- Supervisors
- Foremen
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

No data available.

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

IV. MANNING TABLE

(Number of personnel)

(End of 1967)

Skill categories:
 A. Supervisory staff and foremen (for all shifts)
 B. Skilled operatives
 C. Semi-skilled operatives (machine operatives)
 D. Unskilled operatives

EXTERNAL CONDITIONS:

Transport	external long distance	fair
	internal long distance	fair
	local and city	insignificant
Utilities	electricity	fair
	water	fair
	gas	insignificant
Community	residence	fair
	health and recreation	excellent
	education	fair
Own Welfare Facilities	-	-

III. INVENTORIES

(End of 1967)

	Actual value (000 US \$)	Number of months
Inventories	1,240	
TOTAL:		
- Production materials	701	..
- Other input materials	104	..
- Work-in-process	249	..
- Finished products	184	..

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours
Shift hours/day: (*)	7	7	7
Actual hours/year	1,862	1,862	1,862 hours
Actual days/year	213	273	273 days

(*) Actual hours excluding holidays and breaks; regular working time: 8 hrs.

IV. MANNING TABLE

(Number of personnel)

(End of 1967)

	Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
ALL SHOPS & UNITS:	540	142	308	80	10			
1. Primary operative shops	289	25	20	150	6	79	9	9
- Aluminium rolling and annealing department	35	1	4	10	2	9	9	9
- Dyeing and paper coating dapt.	30	1	1	14	1	13	-	-
- Kite coating department	24	1	3	14	-	6	-	-
- Cross cutting department (coiles)	43	1	-	27	-	15	-	-
- Guillotine cutting dapt.	58	4	5	30	1	18	-	-
- Printing department	39	2	6	20	2	9	-	-
- Sorting department	23	-	-	23	-	-	-	-
- Lacquer manufacturing dept.	8	1	1	3	-	3	-	-
- Production programming	14	14	-	-	-	6	-	-
- Waste processing and box production	15	-	-	9	-	-	-	-
2. Auxiliary operative units	151	18	131	-	-	1	-	-
- Repair & maintenance	75	5	-	-	-	-	-	-
- Mechanical shop	-	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-	-
- Utilities control	4	4	-	-	-	-	-	-
- Product & material storage	12	1	-	11	-	-	-	-
- Off-site transport	15	1	-	14	-	-	-	-
- Guards, cleaners etc.	9	-	-	7	-	1	1	1
- Laboratory, seminar, library, carton manufacturing dept.	36	7	-	29	-	-	-	-
3. Auxiliary non-operative units	100	99	1	-	-	-	-	-
- Production management	3	3	-	-	-	-	-	-
- Research & development	3	3	-	-	-	-	-	-
- Sales unit	-	-	-	-	-	-	-	-
- Accounting	15	14	1	-	-	-	-	-
- General administration	79	79	-	-	-	-	-	-

V. ANNUAL PRODUCTION

(1967)	Yr. of first prod.	Quantity produced Unit	Avg. unit price ex factory (US \$)	Total output value (000 US \$)
Products (or group of products)				
Aluminium foils:				
- Silver; polished and embossed	1927	kg (*) 1,980,340	2,411	
- Coloured; polished and embossed	"	" 921,540	1,421	
- Silver; polished or embossed and printed	1952	" 35,814	63	
- Coloured; polished or embossed and printed	"	" 397,981	923	
- Silver; polished or embossed and paper-coated	1936	" 455,708	1,086	
- Coloured; polished or embossed and paper-coated	"	" 132,744	405	
- Silver; polished or embossed, printed, paper-coated	"	" 20,782	75	
- Coloured; polished or embossed, printed, paper-coated	"	" 69,151	290	
Revenue from contract and commission work			68	
Other revenue			1,048	
(*) Not weight of metal.				TOTAL VALUE OF PRODUCTION: 7,728**

VI. VALUE ADDED

(1967)	Total value (000 US \$)
1. Annual wages & salaries	
- Operative workers (398 persons)	656
- Non-operative workers (142 persons)	364
2. Other payments for employees	240
3. Annual depreciation	381
- Machinery & equipment	316
- Buildings & other facilities	54
- Non-physical capital assets	11
4. Rents paid	26
5. Interest & royalties	189
6. Sales tax	120
7. Other indirect business taxes (*)	15
8. (-) Subsidies	-
9. Corporate income before tax	501
(*) Transport and motor vehicle tax, land tax. TOTAL VALUE ADDED: 2,492	

DESCRIPTION OF MAJOR PRODUCTS:

The company produces aluminium foils and strips of 0,005 - 0,25 mm thickness and of 5 - 1,200 mm width in silver, coloured, polished, embossed, printed and paper or plastic coated as well as all kinds of compound foils. Embossed foils are manufactured up to 800 mm width.

The company utilises a 6-colour-flexo-printing press for foils up to 760 mm width and a 6-colour photogravure printing press for foils up to 600 mm width.

Foils and strips are shipped in bundles, maximum weight 3 tons, packed in wooden boxes.

MARKET ASPECTS:

Consumers of products:

The company sells its products to the following industries:

Candy and chocolate, pastry, dairy, food, beverage, electrical, wrapping, chemical, pharmaceutical, tobacco.

Sales organisation:

Own domestic sales force. Abroad: 30 representatives.

Share in the domestic market:

Wrapping foils: 50%.

EXPORT:

Total annual export: US \$ 4,703,200.

Major product	To Western countries	To Eastern countries	To Developing countries
Aluminium foils (silver, polished, embossed, coloured)	45%	42%	13%
Aluminium foils (coated)	80%	20%	-

Governmental policies:

The government subsidizes exports by way of repealing the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.b. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity Unit	% import	Average import duties (000 US \$)	Total consumption value (000 US \$)
1. Energy and water					
TOTAL:				175	
- Electricity	000 kWh	8,608 (**)	-	-	173
- Gas	000 m ³	..	-	-	2
2. Production materials					
TOTAL:				4,342	
- Aluminium	t	5,000 (**)	-	-	3,176
- Paper	t	1,523 (**)	5	3	421
- Chemicals	t	1,006 (**)	90	97	521
- Oil					43
- Wood					140
- Others					41

(*) Not including internal supply of 10,677,000 kWh

(**) Not including internal supply of 7,900 t of aluminium, 466 t of paper and 1,006 t of chemicals.

	Total consumption value (000 US \$)
3. Other materials & supplies	137
TOTAL:	-
- Packaging material	-
- Parts, supplies & services	116
- Other materials & supplies	21
4. Business services purchased	636
TOTAL:	389
- Transportation, storage & insurance	287
- Communication, advertising & other business services	-
5. Work performed by subcontractors	6
TOTAL:	-
TOTAL VALUE OF CONSUMPTION:	5,798
	0000**

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1.)		Number	Original Purchase Value 1960 US \$	Replace-ment value 1960 US \$	Av. age (yr)	Remarks	Further details
Rolling mill and annealing plant	(a)	16					ad (c): 6-colour-folio printing press: 2 units; output capacity: 150 m/minute; daily running time: 8 hrs; working width: 800 mm.
Machines of dyeing and paper-coating dept.	(b)	26					6-colour-photogravure printing machine: 1 unit; output capacity: 150 m/min; daily running time: 8 hrs; working width: 630 mm.
Embossing machines		9					ad (d): 3 units; daily running time: 8 hrs; working width: 800, 1,000, and 1,250 mm; length of out: 300 - 1,500 mm.
Winding machines and other devices		36					
Cross-cutting machines		6					
Printing presses	(c)	5					
Crescuiters	(d)	3					
Guillotine cutting machines		3					
Perforating attachment		1					
Paper bag machine		1					
Brushing mill		1					
Tarnishing plant		1					
Other specialised machines		6					
Mixers		10					
Presses and other machines		28					
Lathes and drilling machines		41					
Saws and grinding machines		31					
Turbines		7					
Other common type machines		25					
Further details:							
ad (a): 3 four-high mills: Output capacity: 700-900 m/minute; daily running time: 8 - 16 hrs; thickness of foils: 0,006 - 2 mm; working width: 1,600 mm.							
3 resort annealing furnaces: 700 kW; weight of charges: 10 t; running time: 24 hrs/day.							
ad (b): 3 coating and lacquering plants: Output capacity: 200 m/minute; daily running time: 8 - 16 hrs; thickness of foils: 0,009 - 0,3 mm; working width: 1,200 mm.							
2 foil cutting and welding plants: Output capacity: 600 m/minute; daily running time: 8 hrs; working width: 1,250 mm.							

CAPACITY OF PRIMARY OPERATIVE SHOPS:		Modernization:	C modern standard	Automation:
Major primary operative shops	Kind of process involved	A more advanced	D especially short of today's standard	I fully automated
		B considerably high standard	E almost / outdated	H non-automated
Rolling mill and annealing plant	Rolling, annealing, winding, cutting	A	II	Capacity output: 16 tons/day
Dyeing and paper coating dept.	Lacquering, paper coating (wet or dry)	B	III	..
Wax coating department	Wax coating, embossing	C	III	..
Cross-cutting department	Cutting, winding (coils)	C	III	..
Guillotine cutting dept.	Cutting, weighing, packaging	B	III	..
Printing department	Coloured gum and gravure printing	B	III	..
Sorting department	-	C	III	..
Lacquer manufacturing dept.	-	C	III	..

CAPACITY UTILIZATION:		Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
Full capacity output:		US \$ 9,675,000.		
Current utilization: Partially based on 3-shift operation.				
Major products for processing	up to 30	Approximate %		
	30	40	50	60
Rolling mill and annealing plant (*)	x			
Dyeing and paper-coating dept.	x			
Wax coating department	x			
Cross-cutting dept.	x			
Guillotine cutting dept.	x			
Printing dept.	x			
Sorting dept.	x			
Lacquer manufacturing dept.	x			
(*) based on 3-shift operation.				
IX. HISTORY & PLAN				
1. Performances in the past:				
Year: 1963				No data available.
1964				
1965				
1966				
1967				
1968				
2. Investments in the past:				
From 1955 to 1967:	960			Type of investment
" " " "	1,980			Buildings
" " " "	1,200			Machinery and electromotors
				Tools, furniture and fixtures,
				means of transportation
3. Future Plan:				
From 1969 to 1971:	770			Expansion, rationalisation
				specialisation and new
				additions to product-mix
				methods of production,
				machinery and equipment.

(1964) Rolling, drawing and casting of non-ferrous metals					(ISIC Code: 342)				
Industry	No. of estab.	No. of emp.	Av. W. &. S. per pers. 1960 US \$	Av. gross prod. val/ per pers. 1960 US \$	Av. value addition/ prod. ratio (%)				
1. Size groups by number of persons employed	No. of estab.	No. of emp.	1960 US \$	1960 US \$	%				
up to 19	76	443	7,718	11,374	30				
20 - 99	22	1,014	1,824	9,827	41				
100 - 499	18	2,166	2,172	12,991	50				
500 - 999	2	C	C	C	C				
over 1,000	2	C	C	C	C				
TOTAL:	120	10,623	2,034	12,536	31				
2. Size groups by annual value of production	No. of estab.	No. of emp.	Av. W. &. S. per pers. 1960 US \$	Av. gross prod. val/ per pers. 1960 US \$	Av. value addition/ prod. ratio (%)				
up to 20	29	85	7,344	5,199	56				
20 - 40	19	107	1,718	4,929	65				
40 - 200	31	490	1,675	6,039	58				
200 - 400	7	241	1,625	7,836	40				
400 - 2,000	19	1,738	1,786	8,884	43				
over 2,000	15	7,999	2,118	14,014	29				
TOTAL:	120	10,623	2,034	12,536	31				

X. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- | | | |
|---|---------------------------------------|----------------------------------|
| Type of service | | |
| 1. Engineering study | 5. Technical and managerial personnel | 8. Import and export transaction |
| 2. Financial assistance | 6. Industrial training | 9. Admission of foreign labour |
| 3. Industrial services | 7. Technical consultancy | |
| 4. Equipment supply, installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of projects

The company is willing to co-operate with developing countries, however, does not report any particular fields of interest.

XI. SUPPLEMENTS & NOTES

Training:

The company shows great interest to provide in-plant as well as off-plant training courses for its employees. Particular emphasis is put on courses for the further development of technical personnel.

Depreciation policy:

The company applies the straight-line method only.

EAST AFRICA : 350-(1)			
MAJOR PRODUCTS: Wire nails. Capable of producing annually 2,000 t based on 3-shift operation.			
REPORTING UNIT: A one-establishment enterprise founded in 1958.			
I. FIXED CAPITAL ASSETS (in 000 US \$) (End of 1966)		Year of compl.	Orig. purchase value
1. Primary process equipment Total: - Process equipment - Hand tools and apparatuses - Cost of installation		46	..
2. Primary industrial building Total: (total floor space: .. m ²)		18	21
3. Auxiliary facilities Total: - Water, steam, electricity, cooling and storing - Transportation facilities (total load: 2 t) - Administrative facilities - Laboratory facilities		6	..
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excl. land):		70	..
4. Other fixed capital assets Total: - Land (total acreage: - m ²)		-	-
REPAIR OF I.I. (supplier):		Year of Inst.	Orig. purchase value
Wire nail machine type II/50(1) (PRO) Wire nail machine type III/46(1) (PRO) Wire nail machines type V/31 (2) (PRO) Wire nail machines type V/25 (2) (PRO) Wire nail machine NYG-P (1) (Japan) Grinding machine (1) (PRO) Centre lathe (1) (Czechoslovakia)		1958 1958 1958 1958 1966 1958 1958	36 5
HISTORY OF INVESTMENT Construction of the factory was started in 1958. The first trial as well as commercial production began in 1959.			
POWER PLANT: - Electric motors: 60 kW		GENERATION STANDARDS: - Installed capacity: - MVA	
TRANSPORT: Long distance: poor during long rains. Local area: fair		TELEGRAMS: Electricity, water, gas: fair	
COMMUNITY: Residential, health and recreational, educational: fair.			
II. INVENTORIES AND WORKING CAPITAL (in 000 US \$)			
1. Inventories (End of 1966)		Actual value	Actual value
1. Inventories Total: - Production materials - Other input materials - Work-in-process - Finished products		49	21
2. Liquid assets			
Total: - Cash (hand/bank) - Market.sec. & bonds - Short-term investment - Prepaid expenses - Accounts receivable		0.3	..
III. MANNING TABLE (1966 average)			
TOTAL EMPLOYED:		Total	1st shift
1. Primary operative shop		11	11
Nail shop		5	5
Packing		6	6
		C%	PC%
		2nd shift	3rd shift
		PC%	PC%
IV. WORKING TIME PER OPERATIVE MEMBER:			
CAPACITY OF OPERATIVE SHOPS:		WORKING TIME PER OPERATIVE MEMBER:	
		- Normal hours/day: 8 hours - Normal days/year: 301 days - Actual hours/year: 2,400 hours	
Processing capacity			
Wire nail machine (1) 500 lbs/hour Wire nail machine (4) 200 lbs/hour Wire nail machines (2) 100 lbs/hour			
The nail shop is fully automated and mechanised.			

IV. ANIMAL PRODUCTION (in 000 US \$)
(1964)
Products or services of products

Comparing expertise

The c.i.f. price without tariff of competing imports amounts to US\$ 224 (incl. duty only from China). The tariff on wire nails is 30 %.

Capacity maximization

Productive capacity is underutilised due to heavy competition and lack of demand. For full utilisation there would be required 8 additional man hours on each of the second and third shift.

The capacity of the factory is based on 3 shifts. At present it is working on one shift only due to heavy competition.

V. ANNUAL CONSUMPTION		(in MIO US \$)		Quantity		Tariff	Total consumption
				per annum	%	per unit	Value
(1966)				MIO. KWHRS.		MIO.	
1. <u>Power and Water</u>	<u>Total</u>						2
Electricity		000 Kwh	29,70		-	-	2
Industrials		gallia.	285		-	-	0.3
Water		gallia.	95,000		-	-	0.1
2. <u>Production materials</u>	<u>Total</u>						114
Steel wire		t	733	100			114

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY					(In US \$)	
					1930-aver.	35
					Inv. cap.	Inv. cap.
1. Size groups by establishments	No. of establish- <u>ments available</u>	No. of establis- hments	Avg. No. of establis- hments	Avg. gross prod. val./ no. establis- hments	Avg. gross prod. val./ no. establis- hments	Avg. gross prod. val./ no. establis- hments
10 - 19	10	149	..	..	..	..
20 - 49	1	49	..	..	..	..
50 - 99	1	64	..	..	..	..
100 - 499	7	1,663	..	..	..	..
over 500	-	-	-	-	-	-
total	19	1,905	977	3,330		
2. Size groups by scale of production of establishments						
Up to 2	2	..				
2 - 5	5					
5 - 10	40					
10 - 100	120					
100 - 200	240					
200 - 400	360					
400 - 1,000	1,000					
1,000 - 4,000	4,000					
over 4,000	4,000					
total						
* Capital is defined as available available assets.						

VI. VALUE ADDED		(in 000 US \$)	Value
	(1966)		
1.	Wages & salaries		
	- Employees in direct production		5
	(15 persons)		
	- Other employees		10
	(4 persons)		
2.	Other payments for employees (incl. in 1)		
3.	Annual depreciation		7
4.	Rentals paid		1
5.	Interest and royalties		3
6.	Sales tax		-
7.	Other ind bus. tax (-) subsidies		-
8.	Corporate income before tax		-
TOTAL VALUE ADDED:			27

VII. MONTHLY EARNING RATES		(in US \$)	Average earning rates
	No. of series		
<u>1. Local non-operatives</u>			
Total:	4	196	
- Managers	1	420	
- Engineers	-	-	
- Technicians	-	-	
- Accountants	1	140	
- Sales officers	-	-	
- Clerks and typists	2	112	
<u>2. Local operatives</u>			
Total:	15	28	
- Supervisors	-	-	
- Foremen	-	-	
- Machine operators	5	28	
- Craftsmen	2	49	
- Truck drivers	1	28	
- Other fulltime operators	6	21	
- Unskilled operat.)	1	28	
- Part-time operat.			
<u>3. Foreign employees</u>			
Total:	-	-	
<u>3. Other materials and supplies</u>			
Total:	7		
- Packaging (15,000 gummy bags)	2		
- Parts etc. for equipm.maintenance	5		
<u>4. Business services purchased</u>			
Total:	9		
- Communc., advertising, etc.	9		
<u>5. Work performed by sub-contractors</u>			
Total:	-		
TOTAL VALUE OF CONSUMPTION:			
	132		

IX. ENTOMOLOGY

Return Please

In 1967 - 68 approx. US\$ 14,000 will be invested to manufacture roofing nails.

Another 3 persons will be employed on the first shift.

EAST AFRICA : 350-(2)

MAJOR PRODUCTS: Manufacture of enamelware (household wares), with an annual capacity output of 14 mill.pieces on 3-shift operation.

REPORTING UNIT: A one-establishment enterprise founded in 1964, private limited company, foreign capital participation of 45%.

I. FIXED CAPITAL ASSETS (in 000 US \$)				II. INVENTORIES AND WORKING CAPITAL (in 000 US \$)			
	Year of comple.	Orig. purchase value	Replace-ment value	(End of 1966)	Actual value	Actual value	
1. Primary process equipment				1. Inventories	2. Liquid assets		
total:		61	79	total:	216	182	
- Process equipment	1963	26	35	- Production materials	105	- Cash (hand/bank) 0.1	
- Hand tools and apparatuses		29	38	- Other input materials	-	- Market.val. & bonds -	
- Cost of installation		6	6	- Work-in-process	56	- Short-term investment -	
2. Primary industrial building	1942	22	28	- Finished products	55	- Prepaid expenses -	
total:						- Accounts receivable 182	
(total floor space: .. m²)				3. Desired working capital	No.of months	Value	
3. Auxiliary facilities		14	14	total:	420		
total:				- Production materials	3	210	* B - Machine operators
- Water, steam, electricity, cooling and storing		8	8	- Other input materials	-	-	* C - Other operatives
- Transportation facilities (total load: t)	1964	6	6	- Work-in-process	3	210	
- Administrative facilities		-	-	- Finished products	-	-	
- Laboratory facilities		-	-	- Wages and salaries	-	-	
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excl. land):		97	121				
4. Other fixed capital assets							
total:							
- Land (total acreage: 2,508 m ²)		rented					
DETAIL OF I.1. (supplier):	Year of instl.	Orig. purchase value	Replace-ment value				
No details available							
History of investment							
Construction of the factory as well as trial production started in 1963, the first commercial production in 1964. The firm became profitable for the first time in 1966 when sales reached US\$532,000.							
Advantages connected with participation of foreign capital							
Due to a know-how contract the number of technicians could be reduced (from 17 to 7).							
GENERAL INFORMATION:				GENERAL EQUIPMENT:			
Electric power:		12	kW	Generation equipment:		Installed capacity: - kVA	
Water supply:				Water supply:			
Electric meters:				Gasoline tanks:			
TRANSPORTATION:							
long distance: poor during long rains; local area: fair.							
INFRASTRUCTURE:							
electricity, water: fair.							
communications: residential, health and recreational, educational: fair.							
CAPACITY OF OPERATIVE SHOPS:				WORKING TIME FOR OPERATIVE WORKERS:			
				<ul style="list-style-type: none"> - Normal hours/day: 8 hours - Normal days/year: 299 days - Actual hours/year: 2,392 hours 			
The operations are neither automated nor mechanized. Manual operations only. In 1969 the company intended to invest US\$238,000 to enlarge the stamping capacity. 35 more operators will be required on the 1st and 2nd shifts.							

VAST AFRICA : 350-(2)		1173		Page two				
IV. ANNUAL PRODUCTION (in 000 US \$)		Yr. of prod.	Quantity produced	Nominal * capacity output	Unit price ex factory (US \$)	Total production value	VI. VALUE ADDED (in 000 US \$)	Value
(1966) Products (or groups of products)		1964	000 5,308 pieces	14,400	..	557	(1966)	
							1. Wages & salaries	
							- Employees in direct production (145 persons)	90
							- Other employees (11 persons)	17
							2. Other payments for employees	9
							3. Annual depreciation	17
							4. Rental paid	3
							5. Interest and royalties	3
							6. Sales tax	-
							7. Other ind.bum.tax (-) subsidies	-
							8. Corporate income before tax	9
							TOTAL VALUE ADDED:	118
								.....118.....
* Full capacity equal to 40,000 pieces/day on 3 shifts.								
V. EXPORTS								
Part of the production (100 different items) is exported amounting to a total of US\$240,000.								
VII. MONTHLY EARNING RATES (in US \$)							Average No.of earning empl.	Average earning rates
(End of 1966)								
1. Local non-operatives								
total:								
- Managers								
- Engineers								
- Technicians								
- Accountants								
- Sales officers							No detailable	
- Clerks and typists							available	
2. Local operatives								
total:								
- Supervisors								
- Foremen								
- Machine operators								
- Craftsmen								
- Truck drivers								
- Semi-skilled operat.								
- Unskilled operat.								
- Part-time operat.								
3. Foreign employees								
total:								
4. Other materials and supplies							Total consumption value	
total:							15	
- Packaging (cartons, strapping**								
- Parts for equip. maintenance**							16	
5. Work performed by sub-contractors							17	
total:							-	
TOTAL VALUE OF CONSUMPTION:							419	
** 100% imported							.....419.....	
VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY (in US \$)				IX. SUPPLEMENTS				
(1965)								
1. Size groups by establishments		No. of establs.	No. of empl.	Avg. M. & S. per estab.	ISIC-code : 35 Avr.gross prod.val./ gross prod. ratio *			
Grossing empl.**		empl.	empl.	per estab.	per estab.			
10 - 19		10	149	..	..	
20 - 49		1	49	..	..	
50 - 99		1	64	..	..	
100 - 499		7	1,663	..	..	
over 500		-	-	-	-			
total		19	1,925	877	5,220			
2. Size groups by scale of production of establishment								
Up to 2								
2 - 8								
8 - 40								
40 - 120								
120 - 240								
240 - 400								
400 - 1,600								
1,600 - 4,000								
over 4,000								
total								
* Capital is defined as physical capital assets.								
** No data available								
Governmental policies								
The company received refunds of customs duty for half the year 1966.								
From 31.12.1966, the company had to pay excise duty on frit at								
US\$0.56/gallon.								

EL SALVADOR : 350 - (1)

1174

Major Products: Copper and aluminium wires. Capable of producing annually 3,200 t of wires based on 3-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1962, public corporation, 50% participation of foreign capital.

I. FIXED CAPITAL ASSETS

(End of 1966)

	Year of installation	Org. purchase value 1966 US \$	Replacement value 1966 US \$	(*)
1. Primary process equipment		835		
TOTAL		671		
- Process equipment	1965	92		
- Hand tools & apparatuses		72		
- Cost of installation				
2. Primary industrial building	1965	314		
TOTAL		314		
(total floor space: 4,600 m ²)				
3. Auxiliary facilities		126		
TOTAL:		31		
- Water, steam, electricity, cooling & storing		14		
- Transportation facilities		35		
- Administrative facilities		46		
- Laboratory facilities				
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land):		1,275		
4. Other fixed capital assets		105		
TOTAL		105		
- Land (total acreage: 54,000 m ²)				
(*) The replacement value is likely to be about 30% higher than the original purchase value.				

DETAIL OF PROCESS EQUIPMENT (in \$)	Supplier country	Year of installation	Org. purchase value 1966 US \$	Replacement value 1966 US \$	(*)
- Stranding machine	USA	1965	198		
- Twisting machines	"	1965/1966	194		
- Extruder	"	1965	186		
- Buncher	"	"	9		
- Braiding machines	"	"	15		
- Fractionating machine	"	"	10		
- Twisting machine (by couples)	"	"	10		
- Rewinding machine	"	"	8		
- Furnace	Ph.Germ.	"	40		

HISTORY OF INVESTMENT:

Construction of the factory started in 1963, trial production in 1964 and commercial production in 1965. Profits accrued for the first time in November 1965 after utilising 35% of the capacity. In March 1965 approximately US \$ 262,000 were invested to expand the production of telephone cables.

ADVANTAGES CONNECTED WITH FOREIGN CAPITAL PARTICIPATION:

- Training of personnel;
- Modern equipment and machinery;
- Use of foreign trade-marks and technology of world-wide renown;
- Use of best production materials;
- Use of modern marketing techniques.

CAPACITY POWER:

Process equipment:
- Electric motors: 600 kW
- Electric furnaces 100 "

Generating equipment:

- Installed capacity: EVA

EXTERNAL CONDITIONS:

Transport: Long distance, fair; local area, excellent.

Utilities: Electricity, excellent; water, fair.

Community: Residential, health and recreational, educational, all poor.

II. INVENTORIES AND WORKING CAPITAL

(in 1000 US \$)

(End of 1966)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL	1,033	TOTAL:	576
- Production materials	362	- Cash (hand/bank)	10
- Other input materials	36	- Market. sec. & bonds	1
- Work-in-process	206	- Short-term investment	90
- Finished products	429	- Prepaid expenses	8
		- Accounts receivable	467

3. Desired working capital

TOTAL: Number of months Value

TOTAL:

- Production materials
- Other input materials
- Finished products
- Wages & salaries
- Other special items

IV. MANPOWER TABLE

(1966 average)	Number of personnel			
	Total	1st shift	2nd shift	3rd shift
ALL SHOPS & UNITS:				
1. Primary operative shops	149	82	43	24
- All shops	79	24	6	30
				19

2. Auxiliary operative units

	Total	1st shift	2nd shift	3rd shift
- Repair and maintenance	10	4	4	2
- Mechanical shop	4	2	2	1
- Utilities control	4	2	1	1
- Product & material storage	7	7	-	-
- Off-site transport	4	2	1	1
- Guards, cleaners, etc.	5	2	2	1
- Others (gardeners and laborers)	6	3	3	-

3. Auxiliary non-operative units

	Total	1st shift	2nd shift	3rd shift
- Production management	1	1	1	-
- Research & development	1	1	2	-
- Sales unit	2	2	-	-
- General administration	26	26	-	-

WORKING TIME PER OPERATIVE WORKER:

- Normal hours/day: 8 hours - Normal days/year: 250 days
- Actual hours/year: 2,000 hours

CAPACITY OF OPERATIVE SHOPS:

EAST AFRICA : 334 - (1)

MAJOR PRODUCTS: Portland cement.
 Capable of producing annually 130,000 t based on 3-shift operation.
REPORTING UNIT: A one-establishment enterprise, founded in 1964. Semi-public company as of 1967. Foreign capital participation.

I. FIXED CAPITAL ASSETS		(in 000 US \$)		Year of compl.	Orig. purchase value	Replace-ment value
(End of 1967)						
1. Primary process equipment	Total:			1,156	..	..
- Process equipment		1,165	66	3,141	..	..
- Hand tools and apparatuses				11	..	..
- Cost of installation				Incl.		
2. Primary industrial building	Total:			1,832	..	..
(total floor space: .. m ²)					..	..
3. Auxiliary facilities	Total:			612	..	..
- Water, steam, electricity, cooling and storing						
- Transportation facilities						
(total load: .. t)				612	..	..
- Administrative facilities						
- Laboratory facilities						
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excl. land):				5,600	..	..
4. Other fixed capital assets	Total:				..	..
- Land (total acreage: 243,300 m ²)				Rented	..	..
DETAIL OF I.I. (supplier):		Year of instl.		Orig. purchase value		Replace-ment value
Quarry plant	(UK)			159		
Crushing and screening plant	(FR, Germ.)			231		
Raw mill and blending plant	(FR, Germ.)			11		
Silos						
Kiln plant	(FR, Germ. and UK)	1,401		..		
Cement mill plant silos	(UK)	439				
Packing plant	(FR, Germ.)	17				
Water supply	(FR, Germ.)	13				
Gantry crane	(FR, Germ.)	149				
Gypsum crusher	(FR, Germ.)	55				
Power supply	(FR, Germ.)	225				

HISTORY OF INVESTMENT:

The construction of the factory started in 1964. Trial as well as commercial production began in 1966. First profits accrued in 1966, when production reached 8,000 t per month.

CAPACITY POWER:

Prime equipment:
 - electric motors: 5,105 kW
 - other prime movers: 26 kW

Generating equipment:
 - installed capacity: - kVA

INTERNAL CONDITIONS:

Transport: Long distance, poor; local, fair.

Utilities: Electricity and water, fair.

Community: Residential, health and recreational, educational facilities, poor.

II. INVENTORIES AND WORKING CAPITAL

(in 000 US \$)		Actual value
1. Inventories	(End of 1967)	
total:		582
- Production materials		216
- Other input materials		405
- Work-in-process		32
- Finished products		29
2. Liquid assets		
total:		593
- Cash (hand/bank)(overdraft)		267
- Market acc. & bonds		-
- Short-term investment		-
- Prepaid expenses		-
- Accounts receivable		326

No. of months	Value	Desired working capital
		120
total:		
- Production materials		-
- Other input materials		-
- Other special items (Receivables)		287
- Finished products (or 5,000 t)		112
- Wages and salaries		21

III. MANNING TABLE

(1967 average)		Total	1st shift	2nd shift	3rd shift
			B.C.	B.C.	B.C.
TOTAL EMPLOYED:		162	246	67	56
1. Primary operative shops		140	34	47	32

Quarry	17	8	2	4	3
Crusher	11	2	3	3	3
Raw mill and blending	23	5	7	6	5
Kiln	18	3	6	5	4
Cement mill (+ crane)	9	2	3	2	2
Packing plant	62	14	26	12	10
2. Auxiliary operative units	173	113	33	27	
- Repair and maintenance	29	18	6	5	
- Tooling shop	-	-	-	-	
- Mechanical shop	41	30	6	5	
- Utilities control	35	29	3	3	
- Product and material storage	18	10	5	3	
- Off-site transport	40	22	10	8	
- Guards, cleaners, etc.	10	4	3	3	

3. Auxiliary non-operative units	56	52	2	2	
- Production management	26	22	2	2	
- Research and development	30	30	-	-	
- Sales unit	-	-	-	-	
- Accounting	-	-	-	-	
- General administration	-	-	-	-	

CAPACITY OF OPERATIVE SHOPS:

WORKING TIME PER OPERATIVE WORKER:	
- Normal hours/day:	8 hours
- Normal days/year:	.. days
- Actual hours/year:	2,340 hours

All machines and equipment are guaranteed at 130,000 t per annum on a 3-shift basis. Actual utilization is 150,000 t. Fully automated production.

IV. ANNUAL PRODUCTION

(1966)		Quantity produced		Nominal capacity output	Unit price or factory cost	Total production value
	Vt. of prod.	Units	Output		US \$	1000 US \$
Copper and aluminum wires	196 ^c	t	1,905	3,200	1,592.40	3,033
TOTAL VALUE OF PRODUCTION					3,033	

COMPETITIVE IMPORTS:

The following tariff rates are imposed on imported goods like:

Tariff rate		
	per gross kg + ad valorem	
Copper wires	US \$ 0.05	15%
Aluminum wires	" " 0.20	15%

EXPORTS:

Copper and aluminum wires are exported at US \$ 1,560 / t.

Trade among the member countries of the Central American Common Market is unrestricted.

CAPACITY UTILIZATION:

In 1966, the company's 2nd year of commercial production, already 60% of the nominal capacity output could be achieved.

V. ANNUAL CONSUMPTION

(1966)		Quantity consumed		Total consumption value		
		Unit	Purchase	% imported	Tariff rate	1000 US \$
1. Energy and water						44
TOTAL:						
- Electricity		000 Kwh	1,538		38	
- Solid fuels		t	1.5		3	
- Liquid fuels and lubricants		gallons	4,800		2	
- Water		000 m ³	300		1	
2. Production materials						
TOTAL:						2,274
- Copper	t	1,427	100	0.05	10	1,858
- Aluminum	t	383	100	{0.20 0.02}	15	212
- Band steel	t	149	100	0.05	10	26
- P.V.C.	t	400	100	{0.30 0.15}	15	155
- Polyethylene	t	53	100	{0.30 0.15}	15	23

VII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1966)		(IMC:)		
Industry group:	-	Ave. no. of persons	Ave. gross prod. val.	Ave. exp. gross prod. cost* (US \$)
1. Size groups by number of persons employed	Number of units	No. of emp.	No. of emp.	No. of emp.
up to				

No data available.

TOTAL				
2. Size groups by units of annual production				
1000 US \$				
up to				

TOTAL				
* Capital is defined as physical capital assets.				

VI. VALUE ADDED

(1966)		Value 1000 US \$
1. Wages & salaries		39
- Employees in direct production (79 persons)		
- Other employees (70 persons)		112
2. Other payments for employees		26
3. Annual depreciation		98
4. Rentals paid		-
5. Interest & royalties		1.14
6. Sales tax		-
7. Other ind. bus. taxes		-
8. (-) Subsidies		-
9. Corporate income before tax		184
		602

VII. MONTHLY EARNING RATES

(End of 1966)		No. of avg. earning per emp.
		1000 US \$
1. Local non-operatives		
TOTAL:	28	237
- Managers	2	560
- Engineers	1	480
- Technicians	2	300
- Accountants	5	240
- Sales officers	1	280
- Other professional staff	7	-
- Clerks & typists	17	180
2. Local operatives		
TOTAL:	73	84
- Supervisors	1	600
- Foremen	4	180
- Machine operators	50	60
- Craftsmen	13	120
- Truck drivers	2	80
- Other full-time operatives	-	-
- Unskilled & part-time operatives	-	-
- Other specific category	3	48
3. Foreign employees		
TOTAL:	1	1,000
- Managerial staff	1	1,000

IX. SUPPLEMENTS

3. Other materials & supplies

TOTAL: 100% 1000 US \$ 80

3. Other materials & supplies		100% 1000 US \$
TOTAL:		80
- Packaging	5	59
- Repair & maintenance	50	13
- Non-factor service inputs	8	-
4. Business services purchased		
TOTAL:		33
- Transport, storage & insurance		13
- Communication, advertisements, etc.		20
5. Work performed by sub-contractors		
TOTAL:		-
		2,431

Future plan:

In 1968 approximately US \$ 1,400,000 will be invested to introduce a new line of products. 15 persons are to be employed additionally on the 1st shift, and 10 on the 2nd and on the 3rdshifts each.

MEXICO : 350 - (1)

Major Products:

Steel angles, bolts, nuts, steel wire rods, tanks, pipes, etc. Capable of producing 110,000 t of these products on 3-shift operation.

Reporting Unit:

A one-establishment enterprise, founded in 1951, private corporation, percentage of foreign capital unknown.

I. FIXED CAPITAL ASSETS				II. INVENTORIES AND WORKING CAPITAL								
(End of 1966)		Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$	Nm 000 US \$							
1. Primary process equipment			23,318	38,310								
TOTAL			11,105	18,490								
- Process equipment			554	665								
- Hand tools & apparatuses			11,659	19,155								
- Cost of installation												
2. Primary industrial building		1965	2,935	3,399								
TOTAL			2,935	3,399								
(total floor space: 38,624 m ²)												
3. Auxiliary facilities			258	242								
TOTAL			-	-								
- Water, steam, electricity, cooling & storing		1965/66	40	24								
- Transportation facilities												
- Administrative facilities		1966	218	218								
- Laboratory facilities			-	-								
TOTAL PHYSICAL FIXED CAPITAL ASSETS			26,511	41,951								
including land:												
4. Other fixed capital assets			124	1,370								
TOTAL			124	1,370								
- Land (total acreage: 285,397 m ²)												
DETAIL OF PROCESS EQUIPMENT (in.)				Supplier country	Year of installation	Orig. purchase value 1966 US \$	Replacement value 1966 US \$					
- Electric furnaces				3 USA	1952/55/65	1,205	2,202					
- Continuous casting equipment				France	1964	1,720	2,580					
- Cupola furnace				1 Mexico	1962	40	60					
- Reheating furnaces				2 Mexico	1952/63	602	1,031					
- Other furnaces				3 various	1965	1/3	259					
- Rolling mills				4 USA,	1952/65	2,503	4,412					
- Movable cranes				Mexico								
- Galvanizing pens				Mexico	1960/62/65	99	161					
- Twisting machines				10 Belgium, 1957/62	137	206						
- Forging machines				Mexico								
- Die sinking machines				3 ..	1960	56	83					
- Various equipment				various	1953/65/66	3,458	5,188					
HISTORY OF INVESTMENT:												
Construction of the factory started in 1951. The first trial production as well as commercial production started in 1953. Profits accrued in the same year, after utilizing 5% of capacity. The following investments for expansion purposes were made:												
1955	approx.	US \$ 1,154,000	Steel department									
1963	"	" " 1,711,000	Nearly all departments (galvanizing, bolts and nuts, etc.)									
1964	"	" " 2,076,000	Nearly all departments and installation of a 2nd line in the continuous casting plant									
1965	"	" " 2,344,000	Foundry department, new forges									
TECHNICAL ADVANTAGES DUE TO PARTICIPATION OF FOREIGN CAPITAL:												
- Training of personnel												
- Supply of foreign equipment, machinery, and patents												
- Supply of high quality production materials (disadvantage: expensive)												
- Credit at low rates of interest												
CAPACITY POWER:				Generating equipment: Installed capacity:		- kVA						
Process equipment:				4,608 kW								
Electric motors:				360 "		- Electric furnaces 12,255 kW						
EXTERNAL CONDITIONS:												
Transport: Long distance, fair; local area, excellent.												
Utilities: Electricity, water, gas, all excellent.												
Community: Residential, health and recreational, fair; educational, poor.												
III. MANNING TABLE				(number of persons)								
(1966 average)												
				Total	A	B			1st shift	2nd shift	3rd shift	
							A+B		A+B		A+B	
ALL SHOPS & UNITS:												
1. Primary operative shops												
								1,685	1,046	412	227	
								1,034	444	96	321	173
- Foundry								123	48	8	36	31
- Foundry and moulding of iron and steel pieces								26	21	5	-	-
- Continuous casting								66	23	5	19	19
- Rolling								185	58	11	59	57
- Turning shop								137	38	8	46	45
- Traffic and handling								35	11	6	12	6
- Construction of metal structures								130	68	23	38	1
- Production of bolts and nuts								71	38	3	26	4
- Galvanizing								18	24	20	33	1
- Steel wire drawing								61	27	-	25	9
- Fabrication of metal structures								122	88	7	27	-
2. Auxiliary operative units								326	238	58	30	30
- Repair and maintenance								40	30	8	2	2
- Mechanical shop								153	93	38	22	-
- Utilities control								12	5	4	3	3
- Product & material storage								95	87	5	-	-
- Off-site transport								3	3	-	-	-
- Guards, cleaners, etc.								31(*)	11(*)	10(*)	10(*)	10(*)
- Others								23	20	3	-	-
(*) Not included in the total, are considered as governmental services												
3. Auxiliary non-operative units								325	268	33	24	24
- Production management								12	12	-	-	-
- Research & development								31	31	-	-	-
- Sales unit								14(**)	14 (**)	-	-	-
- General administration								93	93	-	-	-
- Others								175	118	33	24	24
(**) Not included in "value added"												
WORKING TIME PER OPERATIVE WORKER:												
Normal hours/day: 8.25 hours								Normal days/year: 296 days				
Actual hours/year: 2,458.5 hours												
CAPACITY OF OPERATIVE SHOPS:												
Operative shop	Capacity/month		Shifts	Utilization rate								
Foundry department	9,720 t	3		78 %								
Ingots "	2,200 t	3		90 %								
Continuous casting department	6,000 t	3		93 %								
Bolts and nuts dept.:	150 t	3		48 %								
- Forging	90 t	3		80 %								
- Punching	150 t	3		48 %								
- Thread cutting	150 t	3										
In order to process the whole output of the foundry department another casting line will be installed in 1969.												

IV. ANNUAL PRODUCTION

(1966)
Products by group of products

	Yr. of first prod.	Unit	Quantity produced	Number of hours worked	Unit price in factory US \$	Total production value US \$
- Steel angles, tubes and steel wire rods (normal, Tor 40 and Tor 60)	1953/54	t	60,448	90,500	175.1	10,586
- Moulded grey iron pieces	1956	t	660*)	1,500	-	-
- Moulded steel pieces	1963	t	35*)	250	-	-
- Galvanized turrets	1961	t	8,111	15,000	341.4	2,769
- Nuts and bolts	1963	t	494	1,750	844.8	418
- Steel wire work	1963	t	1,034	..	280.2	290
- Radial gates	1955	t	81	..	873.6	70
- Subterranean tanks	1962	t	277	..	490.5	136
- Structural posts	1962	t	25	..	474.9	12
- Concrete proportioning plant	1965	pcu	1	..	5,967.5	6
- Metallic structures	1954	t	45	..	432.8	20
- Metallic props for tunnel work	1965	t	416	..	395.2	164
- Other products			..	..	..	102
- Internally consumed			1,500	..	..	-

TOTAL VALUE OF PRODUCTION 14,573

*) Internally consumed

CAPACITY UTILIZATION:

Under-utilization of existing capacity due to lack of demand. Annual requirements in additional man-hours for full utilization: 1st shift - 28,608; 2nd shift - 226,480; 3rd shift - 417,200.

V. ANNUAL CONSUMPTION

(1966)	Unit	Quantity consumed	% Imported	Total consumption value US \$
1. Energy and water				
TOTAL:				1,275
- Electricity	000 Kwh	56,300	-	1,033
- Coke	t	234	-	9
- Liquid fuels and lubricants	000 m3	19	-	233
- Water	000 m3	29	-	own supply

2. Production materials

TOTAL							
- Scrap	t	72,652	11	3	3,559		
- Raw materials for casting	t	4,148			318		
- Ferrosilicium	t	431			155		
- Ferromanganese	t	591			172		
- Iron alloys	t	11			17		
- Aggregates (aluminum, calcareous stones, etc.)	..				24		
- Electrodes and nipples	..				310		
- Other production materials (dolomite, refractories, oxygen, acetylene, etc.)	..				1,006		
- Various (screws, nuts, profiles, tubes, cables, galvanizing materials, etc.)	..				1,607		

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965) Manufacture of metal products except
Industry group: machinery and transport equipment (ISIC: 350)

1. Size groups by number of persons employed	Number of units	Number of emply.	Ave. W. & G. per pers. US \$	Ave. prod. val. per pers. US \$	Ave. exp. gross prod. ratio (%)
up to 5	2,889	8,021	354	1,664	42
6 - 15	168	6,954	680	3,560	65
over 15	911	82,507	1,257	5,890	76
TOTAL	4,568	97,482	1,141	5,377	76
2. Size groups by units of annual production US \$:					
up to 2	5,138	8,294	52	557	38
2 - 8	2,139	5,879	312	1,432	34
over 8	1,913	90,215	1,207	5,728	77
TOTAL	9,190	104,388	1,065	5,075	76

*) Capital is defined as physical capital assets.

VI. VALUE ADDED

(1966)	Value US \$
1. Wages & salaries	
- Employees in direct production (1,360 persons)	1,238
- Other employees (311 persons)	891
2. Other payments for employees	644
3. Annual depreciation	830
4. Rentals paid	8
5. Interest & royalties	1,290
6. Sales tax (not incl. in TOTAL)	(219)
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	743
	5,644

VII. MONTHLY EARNING RATES

No. of persons engaged	Average earning rate US \$
(End of 1966)	
1. Local non-operatives	
TOTAL:	309 232
- Managers	4 1,160
- Engineers	4 720
- Technicians	26 128
- Accountants	11 288
- Sales officers	14 533
- Other professional staff	55 391
- Clerks & typists	195 147

2. Local operatives

No. of persons engaged	Average earning rate US \$
TOTAL:	1,360 75
- Supervisors	- -
- Foremen	9 94
- Machine operators	522 93
- Craftsmen	152 98
- Truck drivers	14 87
- Other full-time operatives	663 56
- Unskilled & part-time operatives	- -

3. Foreign employees

No. of persons engaged	Average earning rate US \$
TOTAL:	2 1,200
- Engineers, trainees and other technical control staff	2 1,200

3. Other materials & supplies

No. of persons engaged	Average earning rate US \$
TOTAL:	354

4. Business services purchased

No. of persons engaged	Average earning rate US \$
TOTAL:	132
- Transport, storage & insurance	94
- Communication, advertisement, etc.	38

5. Work performed by sub-contractors

No. of persons engaged	Average earning rate US \$
TOTAL:	-

9,168

IX. SUPPLEMENTS

Governmental policies:

In case the company extends its production programme, subsidies should also be granted for these new products. So far subsidies are given only for the production of goods which have not been produced nationally.

Future plans:

Between 1969 and 1973 approximately US \$ 2,000,000 will be invested for expansion of the scrap preparation, casting, foundry and rolling departments.

Major Products: Cables, wires and wire products. Capable of producing annually 65,000 t of cables and 80,000 t of wires and wire products, on 3-shift operation.

Reporting Unit: A one-establishment enterprise; founded in 1945; private corporation; no participation of foreign capital.

I. FIXED CAPITAL ASSETS		Year of installa- tion	Orig. pur- chase value 1000 US \$	Replace- ment value 1000 US \$
(End of 1966)				
1. Primary process equipment			6,384	16,800
TOTAL			6,384	16,800
- Process equipment			"	"
- Hand tools & apparatuses			"	"
- Cost of installation			"	"
2. Primary industrial building			531	800
TOTAL			531	800
(total floor space: 28,987 m ²)				
3. Auxiliary facilities			170	240
TOTAL			170	240
- Water, steam, electricity, cooling & storing			"	"
- Transportation facilities			"	"
- Administrative facilities			170	240
- Laboratory facilities			"	"
TOTAL PHYSICAL FIXED CAPITAL ASSETS			7,085	11,840
(including land):				
4. Other fixed capital assets			20	480
TOTAL			20	480
- Land (total acreage: 64,555 m ²)				
DETAIL OF PROCESS EQUIPMENT (in \$):				
	Supplier country	Year of installa- tion	Orig. pur- chase value 1000 US \$	Replace- ment value 1000 US \$
Foundry			1,177	3,200
Rolling mill			925	3,200
Wire-drawing			2,192	4,800
Wire products			1,455	4,000
Transport equipment			318	800
Various			317	800

HISTORY OF INVESTMENT:

The factory was constructed in 1945. Trial as well as commercial production started in 1948. In the same year profits accrued for the first time. The following investments for expansion purposes were made: (in 1000 US \$)

1945	approx.	1,200	Rolling of steel ingots
1956	"	4,000	Merger with other companies
1959	"	6,000	Production department
1962	"	8,000	Production department

CAPACITY POWER: Process equipment: Electric motors: - Electric furnaces:	Generating equipment: Installed capacity: - kVA
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EXTERNAL CONDITIONS:
Transport: Long distance, excellent; local area, fair.
Utilities: Electricity, water and gas, excellent.
Community: Residential, health and recreational, educational, fair.

II. INVENTORIES AND WORKING CAPITAL

In 1000 US \$

(End of 1966)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL:	4,107	TOTAL:	4,266
- Production materials	434	- Cash (hand/bank)	923
- Other input materials	1,056	- Market. sec. & bonds	9
- Work-in-process	1,628	- Short-term investment	-
- Finished products	1,589	- Prepaid expenses	175
		- Accounts receivable	3,159

3. Desired working capital

Number of months	Value
	8,000
TOTAL:	
- Production materials	2 960
- Other input materials	- -
- Finished products	2 3,200
- Wages & salaries	2 560
- Other special items	2 3,280

III. MANNING TABLE

(number of persons)

A = Machine operators
B = Other operators

(1966 average)

	Total	1st shift	2nd shift	3rd shift
	A	B	A+B	A+B
ALL SHOPS & UNITS:	1,979	1,143	532	304
1. Primary operative shops	1,373	417	190	489
- Foundry	183	8	69	53
- Rolling mill	257	11	44	71
- Wire drawing	506	14	55	153
- Wire products (nails, screws, wire fabrics, cables)	427	13	22	212

2. Auxiliary operative units

	235	247	25	13
- Repair and maintenance	53	20	20	-
- Mechanical shop	169	169	-	-
- Utilities control	53	53	-	-
- Product & material storage	10	5	5	-
- Off-site transport	-	-	-	-
- Guards, cleaners, etc.	-	-	-	-

3. Auxiliary non-operative units

	321	289	18	14
- Production management	56	24	-	-
- Research & development	-	-	-	-
- Sales unit	6	6	-	-
- General administration	259	259	-	-

WORKING TIME PER OPERATIVE WORKER:

- Normal hours/day: 7.5 hours - Normal days/year: 291 days
- Actual hours/year: 2,182.5 hours

CAPACITY OF OPERATIVE SHOPS:

Capacity of rolling mill department is 65,000 t, utilization rate of capacity is 100%. Moderate automation. Grinder produces 65,000 t, but there exists demand for 80,000 t.

IV. ANNUAL PRODUCTION

(1966) Products for group of products	Yr. of first prod.	Quantity produced	Number capacity output	Unit price in factory M\$ \$	Total production value M\$ US \$
		Units	Output		
Cables	1948	t	53,764	65,000	142.61 7,667
Wire and wire products	1956	t	78,393	80,000	252.30 19,518
TOTAL VALUE OF PRODUCTION				27,485	17,185

CAPACITY UTILIZATION:

Production capacity of wire and wire products is restricted due to lack of capacity in the foundry and lamination department. Additional 5,000 man-hours on 1st shift and 6,600 man-hours on 2nd shift would be required for full utilization.

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed		Total consumption value M\$ US \$
	Unit	Purchase	% imported Total value
1. Energy and water			
TOTAL:			1,636
- Electricity	000 Kwh	78,610	1,394
- Coal and fire wood	t	2,858	10
- Liquid fuels and lubricants		..	85
- Gas	000 m3	16,835	147
- Steam, water (self-supply)	000 m3	123	-
2. Production materials			
TOTAL:			17,737
- Copper scrap	t	122,000	50 US\$1.4/t 16,207
- Fittings	t	1,110	1,019
- Lead	t	870	184
- Zinc	t	1,179	316
- Copper and aluminium wire	t	7	11

VII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965) Industry group: Manufacture of metal products, except machinery and transport equipment	(WMC: 350)					
1. Size groups by number of persons employed	Number of estab.	Number of emp.	Ave. W. & S. per pers. M\$ \$	Ave. per prod. val. per pers. M\$ \$	Ave. exp. gen prod. val/t (M\$)	
up to 5	2,889	8,021	354	1,664	42	
6 - 15	768	6,954	680	3,560	65	
over 15	911	82,507	1,257	5,890	76	
TOTAL	4,568	97,482	1,141	5,377	76	
2. Size groups by size of annual production M\$ US \$:						
up to 2	5,138	8,294	52	557	38	
2 - 8	2,139	5,879	312	1,432	34	
over 8	1,913	90,215	1,207	5,728	77	
TOTAL	9,190	104,388	1,065	5,075	76	

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1966)	Value (M\$ US \$)
1. Wages & salaries	
- Employees in direct production (1,668 persons)	1,394
- Other employees (321 persons)	1,019
2. Other payments for employees	1,019
3. Annual depreciation	422
4. Rentals paid	230
5. Interest & royalties	34
6. Sales tax	10
7. Other ind. bus. taxes	10
8. (-) Subsidies	37
9. Corporate income before tax	1,417
	1,417

VII. MONTHLY EARNING RATES

(End of 1966)	No. of work. pers. empl.	Average earning per mon. M\$ \$
1. Local non-operatives		
TOTAL:	13,200	15.2
- Managers	1,300	111
- Engineers	200	2
- Technicians	200	2
- Accountants	60	49
- Sales officers	100	14.0
- Other professional staff	200	1,600
- Clerks & typists	1,300	10.0
2. Local operatives		
TOTAL:	1,417	1.1
- Supervisors	100	1.1
- Foremen	100	1.1
- Machine operators	1,095	1.1
- Craftsmen	100	1.1
- Truck drivers	100	1.1
- Other full-time operatives	100	1.1
- Unskilled & part-time operatives	100	1.1
3. Foreign employees		
TOTAL:		

	Total consumption value M\$ US \$
3. Other materials & supplies	503
TOTAL:	
- Packaging	246
- Repair & maintenance	261
- Non-factor service inputs	96
4. Business services purchased	
TOTAL:	40
- Transport, storage & insurance	1
- Communication, advertisements, etc.	37
5. Work performed by sub-contractors	
TOTAL:	20,208

IX. SUPPLEMENTS

Future plan:

In 1967 - 1968, approx. US \$120,000.- will be invested for purchasing a new rolling mill and machinery for the production of different kinds of wire products.

MEXICO : 350 - (3)

1180

Major Products: Tin cans. Capable of producing annually 195 million tin cans on 3-shift operation.**Reporting Unit:** A one-establishment enterprises founded in 1944, privately owned, 1/3 foreign, 2/3 national capital of which 2/3 are public investment.

I. FIXED CAPITAL ASSETS		Year of installa- tion	Orig. pur- chase value 1966 US \$	Replac- ment value 1966 US \$
(End of 1966)				
1. Primary process equipment			1,659	2,221
TOTAL			1,659	2,221
- Process equipment			-	-
- Hand tools & apparatuses			-	-
- Cost of installation			-	-
2. Primary industrial building	1959		499	599
TOTAL			499	599
(total floor space: 17,622 m ²)				
3. Auxiliary facilities			62	66
TOTAL			-	-
- Water, steam, electricity, cooling & storing			-	-
- Transportation facilities	1962-1966		15	16
- Administrative facilities	1966		4	60
- Laboratory facilities			-	-
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land)			2,220	2,886
4. Other fixed capital assets			20	38
TOTAL			20	488
- Land (total acreage: 30,529 m ²)				
DETAIL OF PROCESS EQUIPMENT (in):	Supplier country	Year of installa- tion	Orig. pur- chase value 1966 US \$	Replac- ment value 1966 US \$
Automatic production lines	7			
Semi-automatic production lines	2			
Automatic dies for tin sizing	6			
Sets of dies of different sizes	20			
Equipment for lithographic work (presses, coating and drying machines)	2	USA 1945-1966	1,659	2,221
Line for manufacture of high vacuum can top stock				
Mechanical shop:				
Lathes	8			
Compressors	4			
Laboratory equipment				

HISTORY OF INVESTMENT:

Construction of the factory started in 1946. The first trial as well as commercial production started in 1948. By the end of 1949 the factory became profitable. In 1956 approx. US \$ 720,000 were invested to expand the production of sanitary containers, the automatic lines and ware-houses. In 1962 approx. US \$ 160,000 were invested to expand the high vacuum covers department and to introduce a new lithographic line.

TECHNICAL ADVANTAGES DUE TO PARTICIPATION OF FOREIGN CAPITAL:

- Training of operatives
- Protection of processing methods

CAPACITY POWER:	Generating equipment:	Installed capacity	kVA
Process equipment:			
Electric motors:	580.0 " kW	- Electric furnaces	28.2 kW
- Other prime movers	1.0 " "	- Other furnaces (drier)	98.0 "

EXTERNAL CONDITIONS:
Transport: Long distance, excellent; local area, fair.

Utilities: Electricity, water, gas, all excellent.

Community: Residential, health and recreational, educational, all fair.

II. INVENTORIES AND WORKING CAPITAL

In 1000 US \$

(End of 1966)		2. Liquid assets	Actual value
1. Inventories	<u>Total</u>	<u>1,781</u>	
- Production materials	493	- Cash (hand/bank)	128
- Other input materials	339	- Market. sec. & bonds	-
- Work-in-process	498	- Short-term investment	115
- Finished products	451	- Prepaid expenses	226
		- Accounts receivable	477

3. Desired working capital

Number		Value
<u>TOTAL</u>		<u>2,741</u>
- Production materials	3	960
- Other input materials	3	147
- Finished products	2	480
- Wages & salaries	2	160
- Other special items	3	1,000

III. MANNING TABLE

(1966 average)		Number of persons		A = Mainly operative B = Other operative	
		Total	A	B	Sub total
ALL SHOPS & UNITS:		<u>509</u>	<u>288</u>	<u>139</u>	<u>82</u>
1. Primary operative shops		<u>337</u>	<u>71</u>	<u>108</u>	<u>96</u>
- Lithographic printing shop		32	6	5	11
- Cutters		45	15	20	8
- Automatic assembling		103	24	24	34
- Tin sizing		71	6	20	25
- Die-making		41	20	6	11
- Quality control		45	-	33	7
2. Auxiliary operative units		<u>123</u>	<u>62</u>	<u>42</u>	<u>19</u>
- Repair and maintenance		18	11	5	2
- Mechanical shop		23	10	8	5
- Utilities control		29	16	11	2
- Product & material storage		18	8	6	4
- Off-site transport		3	3	-	-
- Guards, cleaners, etc.		23	10	9	4
- Others		9	4	3	2
3. Auxiliary non-operative units		<u>49</u>	<u>47</u>	<u>1</u>	<u>1</u>
- Production management		7	5	1	1
- Research & development		2	2	-	-
- Sales unit		3	3	-	-
- General administration		30	30	-	-
- Others (programmer, indust. engineer)		7	7	-	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day:	7.73 hours	Normal days/year:	302 days
- Actual hours/year:	2,334 hours		

CAPACITY OF OPERATIVE SHOPS:

Operative shops (Capacity)	Description of process	Shifts	Automation and mechanisation
Lithographic printing shop (3 machines)	Tin-plato printing	3	Moderate
Assembly (7 machines)	Assembly	2 and 3	"
Cutting (15 machines)	Cutting of strips	2 " 3	"
Die-making (30 machines)	Forming of covers	2 " 3	"

IV. ANNUAL PRODUCTION

(1966)	Vn. of fin. prod.	Quantity produced	Number capacity output	Unit price on factory RS \$	Total production value RS \$ US \$
Products for group of products		Unit	Output		
Tin cans	1948	000pcs.	122,764	195,000	.. 3,804
Other products	"			..	614
Scrap				..	134
TOTAL VALUE OF PRODUCTION					4,557

VI. VALUE ADDED

(1966)	Value (RS \$ US \$)
1. Wages & salaries	
- Employees in direct production (500 persons)	291
- Other employees (115 persons)	208
2. Other payments for employees	-
3. Annual depreciation	178
4. Rentals paid	-
5. Interest & royalties	133
6. Sales tax (not incl. in 2, 4, 5)	(115)
7. Other ind. inc. taxes	1
8. (-) Subsidies	-
9. Corporate income before tax	105
	416

CAPACITY UTILIZATION:

Capacity under-utilised due to technological reasons and to insufficient supply of raw material, which on account of governmental policies cannot be imported.

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed			Total consumption RS \$ US \$
	Unit	Purchase	% imported	
1. Energy and water				
TOTAL				41
- Electricity	000 Kwh	756		33
- Lubricants	000 l	10,5		2
- Gas	t	109		4
- Water	000 m ³	120		4
2. Production materials				
TOTAL				3,233
- Tinned sheet iron	000 boxes	262		3,038
- Compounds		..		95
- Tints and varnishes		..		80
- Solder		..		20

VII. MONTHLY EARNING RATES

(End of 1966)	No. of per. empl.	Average earning RS \$
1. Local non-operatives		
TOTAL	65	223
- Managers	2	1,140
- Engineers	4	440
- Technicians	7	-
- Accountants	2	400
- Sales officers	4	160
- Other professional staff	2	160
- Clerks & typists	53	175
2. Local operatives		
TOTAL	635	102
- Supervisors	1	400
- Foremen	3	160
- Machine operators	133	101
- Craftsmen	29	101
- Truck drivers	2	120
- Other full-time operatives	367	101
- Unskilled & part-time operatives	-	-
3. Foreign employees		
TOTAL	1	1,000
- Engineers, trainers and other technical control staff	1	1,000
4. Other materials & supplies		
TOTAL	361	361
- Packaging	82	-
- Repair & maintenance	269	-
- Non-factor service inputs	12	-
5. Business services purchased		
TOTAL	2	2
- Transport, storage & insurance	1	-
- Communication, advertisements, etc.	1	-
6. Work performed by sub-contractors		
TOTAL	-	-
		3,641

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965) Manufacture of metal products, except machinery
Industry group: and transport equipment (ISIC: 350)

1. Size groups by number of persons employed	Number of estab.	Number of emp.	Ave. U.S. \$ per per. RS \$	Ave. gross prod. val. per per. RS \$	Ave. exp. gross prod. ratio (%)
up to 5	2,889	8,021	354	1,664	42
6 - 15	768	6,954	680	3,560	65
over 15	911	82,507	1,257	5,890	78
TOTAL	4,568	97,482	1,141	5,377	76
2. Size groups by value of annual production RS \$ US \$:					
up to 2	5,138	8,294	52	557	38
2 - 8	2,139	5,879	312	1,432	34
over 8	1,913	90,215	1,207	5,728	77
TOTAL	9,190	104,388	1,065	5,075	76

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

Government policies:

Imports of production materials are prohibited.

Future plan:

Within a period of 6 years approx. US \$ 1,600,000 will be invested in a new plant and in a production line for beer cans.



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IV. ANNUAL PRODUCTION (in 000 US \$)

(1967) Products (or group of products)	Yr. of first prod.	Quantity produced Unit	Nominal output Output	Unit price ex factory (US \$) (avr.)	Total production value
Portland cement	1967	t	146,137	120,000	26.2
Aggregate (crushed limestone)	1967	t	49,252	..	2.5
Total value of production					3,075

* based on 3-shift operation

COMPETITIVE IMPORTS:

C.i.f. price of imported cement amounts to US \$ 22.00. A customs duty of US \$ 0.49 is charged.

VI. VALUE ADDED (in 000 US \$)

(1967)	Value
- Employees in direct production (313 persons)	331
- Other employees (56 persons)	123
2. Other payments for employees	27
3. Annual depreciation	103
4. Rentals paid	3
5. Interest and royalties	111
6. Sales tax	-
7. Other ind. bus. tax (-) subsidies	-
8. Corporate income before tax	818
TOTAL VALUE ADDED:	1,112

VII. MONTHLY EARNING RATES (in US \$)

(End of 1967)	No. of empl.	Average earning rates
1. Local non-operatives total:		
- Managers		
- Engineers		
- Technicians		
- Accountants		
- Sales officers		
- Clerks and typists		
2. Local operatives total:		Not available
- Supervisors		
- Foremen		
- Machine operators		
- Craftsmen		
- Truck drivers		
- Semi-skilled operat.		
- Unskilled operat.		
- Part-time operat.		
3. Foreign employees total:		12% of skilled staff are foreign employment
4. Other materials and supplies total:		Total consumption value
- Packaging (bags: 1,400,000 pieces)*		240
- Parts, etc. for equipment maintenance		31
4. Business services purchased total:		150
- Communications, advertising, etc.		150
5. Work performed by sub-contractors total:		-
TOTAL VALUE OF CONSUMPTION: * 100% imported		1,113

VIII. CHARACTERISTICS OF THE INDUSTRY IN THIS COUNTRY (in US \$)

(1965)		ISIC-code : 33			
1. Size groups by establishments	No. of establishments	No. of empl.	Avr. per empl.	Avr. gross prod. val./ per empl.	Avr. cap./ gross prod. ratio *
10 - 19	3	40	..	..	..
20 - 49	3	110	..	..	..
50 - 99	3	278	..	..	..
100 - 499	-	-	-	-	-
over 500	-	-	-	-	-
total	9	428	479	7,477	..
2. Size groups by scale of production of establishments					
Up to 2	2				
2 - 8	8				
8 - 40	40				
40 - 120	120				
120 - 240	240				
240 - 400	400				
400 - 1,600	1,600				
1,600 - 4,000	4,000				
over 4,000	4,000				
total					

* Capital is defined as physical capital assets.

IX. SUPPLEMENTS

Future Plan:

The original planning and design of the factory provided for duplication and triplication of the plant and buildings. Work is now in hand for the second stage of development (1969-1971). Estimated cost of the expansion programme is US \$ 4,200,000. Duplication of all processes will increase production by 250,000 t of cement per year. Additional labour will be employed: 1st shift 40 persons, 2nd shift 30 and 3rd shift 20 persons (estimate).

Major Products: Cement.
Capable of producing 180,000 tons of Portland cement on 3-shift operation. Electricity is internally generated and partly sold.

Reporting Unit: A one-establishment enterprise, wholly government owned; founded in 1932. No foreign capital participation. Until 1949 the enterprise had been subsidized by the government. The first break-even point was reached in 1949 but in 1965 the enterprise had a substantial operating loss at an output level of about US \$ 3,000,000. No exports.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1000 US \$)	Replace- men- tional value (1000 US \$)	Ave- age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	3,418	(2,270) ^{1/}	..
- Process equipment	2,936	(2,257)	..
- Hand tools & apparatuses	58	(13)	..
- Cost of installations	424	(..)	..
2. Buildings	126	2,779	..
TOTAL	62	1,268	..
- Primary industrial buildings (total floor space: 23,674 m ²)	14	282	..
- Auxiliary buildings	39	1,143	..
- Warehouses	11	86	..
- Office administration buildings	-	-	-
- Housing	-	-	-
3. Auxiliary facilities (excl. buildings)	179	(159) ^{1/}	..
TOTAL	-	-	-
- Internal power equipment	-	-	-
- Laboratory facilities	114	(100)	..
- Means of transportation	65	(59)	..
- Office equipment	-	-	-
TOTAL PHYSICAL FIXED ASSETS (excluding land):	3,723	..	..
4. Other fixed capital assets	159	297	
TOTAL	159	297	
- Land (total acreage: 112,140 m ²)	159	297	
- Land improvements	-	-	
- Others	-	-	

^{1/} Book value^{2/} Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:	
Transport:	external long distance fair internal long distance excellent local and city fair
Utilities:	electricity fair water excellent gas -
Community:	residence excellent health and recreation excellent education excellent
Own Welfare Facilities:	-

III. INVENTORIES

(End of 1968)

	Actual value (1000 US \$)	Number of months
Inventories	1,215	..
TOTAL:	-	
- Production materials	1	..
- Other input materials	950	..
- Work-in-process	79	..
- Finished products	185	..
(See III. for liquid assets and desired working capital).		

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	8	8	hours
Actual hours/year	2,824	2,824	2,824	days
Normal days/year:	353	353	353	

II. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1968 monthly average)

V. ANNUAL PRODUCTION

(1968)	Yr. of first prod.	Quantity produced Unit	Quantity Produced Quantity	Avg. unit price on factory basis US \$	Total output value 1000 US \$
Portland cement	1933	t	155,000	21.4	3,112
Terrazzo cement	1937	t	3,800	17.8	68
Electricity	1935	kWh	3,000,000	0.04	133

*) approximate

TOTAL VALUE OF PRODUCTION: 3,513

VI. VALUE ADDED

(1968)	Total value 1000 US \$
1. Annual wages & salaries	1,077
- Operative workers	908
(632 persons)	
- Non-operative workers	169
(110 persons)	
2. Other payments for employees	133
3. Annual depreciation	403
- Machinery & equipment	299
- Buildings & other facilities	104
- Non-financial capital assets	-
4. Rents paid	-
5. Interest & royalties	-
6. Sales tax	-
7. Other indirect business taxes	42
8. (-) Subsidies	-
9. Corporate income before tax	481

TOTAL VALUE ADDED: 2,138

DESCRIPTION OF MAJOR PRODUCTS:

MARKET ASPECTS:

Consumers of products:

Mainly government agencies (public works).

Sales organisation:

Own sales department.

Share in the domestic market:

10%.

Competition with imported products:

None.

EXPORT:
Total annual export: None.

Major products	To Western countries	To Eastern countries	To Developing countries

Prospects of exports:

Good, if prices could be reduced to a competitive level.

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed Unit	Quantity Produced Quantity	% import	Average import value	Total consumption value 1000 US \$
1. Energy and water					
TOTAL:					719.7
- Coal		796	-	-	13
- Coke		16.7	-	-	0.5
- Kerosene oil		31.2	-	-	1.2
- Gasoil	t	32,000	-	-	634
- Fuel oil		752	-	-	30
- Gasoline		75	-	-	9
- Lubricants		100	-	-	32
2. Production materials					30
TOTAL:					
- Lime stone		170,000	1/	-	..
- Plaster		5,944	-	-	12
- Terrazzo stone		854	-	-	2
- Clay		60,000	1/	-	..
- Iron ball		70	-	-	15
- Other materials		4	-	-	1

1/ Internally supplied and not counted in the total.

3. Other materials & supplies	Total consumption value 1000 US \$
TOTAL:	968
- Packaging material	40
- Parts, supplies & services	96
- Other materials & supplies	192
4. Business services purchased	
TOTAL:	257
- Transportation, storage & insurance	189
- Communication, advertising & other business services	68
5. Work performed by subcontractors	
TOTAL:	-

TOTAL VALUE OF CONSUMPTION: 1,375

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (V.1.)

	Original Purchase Value US \$	Replace- ment Value US \$	Ave. Age Yrs.	Source:
Number	800,000	1,000,000	10	1. Purchased second-hand 2. Chartered 3. Rented 4. Self-produced

Further details

Mainly old type of machinery being gradually replaced

by new types; only the machinery of repair shop is
completely modern.

CAPACITY POWER:

Process equipment:
electric motors kW -

Generating equipment:
installed capacity kVA 6,600
- actual production kWh 3,500
in 1968

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization		C. machine standard	D. apparently short of industry's standard	E. above standard	Automation	
		Modern	Traditional				I. fully automated	II. semi-automated
Primary operative shop	Manufacture of cement	8	11					

CAPACITY UTILIZATION:
Full-capacity output: approximately US \$ 4.0 million.

Current utilization:

Major products for processing	Approximate %
Portland cement	60
Electricity	40

The over-all capacity utilization rate is considered to be about 90%
(due to insufficient demand).

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output US \$	No. of units produced	Total exports US \$
1963	-	-	-
1964	2,350	738	-
1965	2,990	738	-
1966	3,620	738	-
1967	3,120	738	-
1968	3,510	742	-

2. Investment in the past:

From 19	To 19	Type of investment
		No significant expansion or replacement investment since 1955. (The factory had a nominal capacity of 160,000 t prior to 1955).

3. Future Plan:

From 19 to 19: In the next five years no major capital investments are planned.

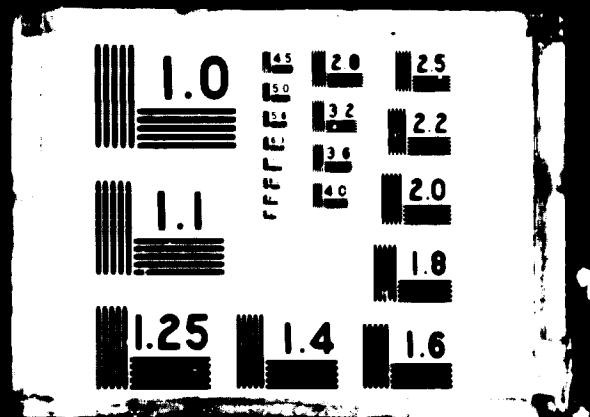
X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1967)

Industry Manufacture of cement (hydraulic) (ISIC-Code: 334)

1. Size groups by number of persons employed up to	No. of units	No. of employees	Av. W. & S. per pers. US \$	Av. gross prod. val./per pers. US \$	Av. value added/gross prod. ratio (%)	Capital assets per pers. (US \$)	a.		b.		c.	
							No. of units	No. of employees	Av. gross prod. val./per pers. US \$	Av. value added/gross prod. ratio (%)	No. of units	No. of employees
up to 250	3	598	1,899	5,048	26	45,744						
251 - 350	2	603	1,157	7,633	69	11,928						
over 350	3	1,675	2,046	6,554	60	17,660						
TOTAL:	8	2,876	1,871	9,680	64	22,297	TOTAL:					

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02919



Major Product:

Steel mould-shots (produced from steel wire); annual capacity output with continuous three-shift operation is rated to be about 200 t.

Reporting Unit:

A new single-factory enterprise, founded in 1965; privately owned, no participation of foreign capital. (The year of reference is that of the first commercial production below the break-even point).

I. FIXED CAPITAL ASSETS		Year of construction	Ori. purchase value 1000 US \$	Replacement value 1000 US \$
(End of 1966)				
1. Primary process equipment				
TOTAL	1966	97	97	
- Process equipment		79	79	
- Hand tools & apparatuses		1	1	
- Cost of installation		14	14	
2. Primary industrial building				
TOTAL				
(total floor space: 2,144 m ²)				
3. Auxiliary facilities				
TOTAL		3	3	
- Water, steam, electricity, cooling & storing		-	-	
- Transportation facilities		-	-	
- Administrative facilities	1966	3	3	
- Laboratory facilities		-	-	
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land) (Equipment only)		100	100	
4. Other fixed capital assets				
TOTAL		11	11	
- Land (total acreage: 0.00 m ²)		0.00	0.00	
DETAIL OF PROCESS EQUIPMENT (in %)				
	Capital country	Year of construction	Ori. purchase value 1000 US \$	Replacement value 1000 US \$
- Forging	U.S.A.	1966	1	1
- Brake	"	1966	13	13
- Furnaces	U.S.A.	"	14	14
- Polishers	U.S.A.	"	6	6
- Various equipment	Mex	"	34	34

II. INVENTORIES AND WORKING CAPITAL		In 1000 US \$	
(End of 1966)			
1. Inventories	Actual value	2. Liquid assets	
TOTAL	14.1	TOTAL	33.1
- Production materials	1	- Cash (hand/bank)	21
- Other input materials	2	- Market. sec. & bonds	-
- Work-in-process	5	- Short-term investment	-
- Finished products	8.1	- Prepaid expenses	0.1
		- Accounts receivable	12
3. Desired working capital			
TOTAL	36		
- Production materials	14		
- Other input materials	2		
- Finished products	7		
- Wages & salaries	4		
- Other special items	3		
- Training	1		

III. MARKUPS TABLE		Number of persons		A = Number workers B = Other operatives	
(1966 average)		Total	1st shift	2nd shift	3rd shift
ALL SHOPS & UNITS:		29	16	9	5
1. Primary operative shops		29	16	9	5
- Forging		3	1	1	1
- Melting and dressing		3	1	1	1
- Polishing		3	1	1	1
- Control and packing		6	3	3	-
2. Auxiliary operative units		8	4	2	2
- Repair and maintenance		1	1	1	1
- Mechanical shop		-	-	-	-
- Utilities control		1	1	1	1
- Product & material storage		1	1	-	-
- Off-site transport		-	-	-	-
- Guards, cleaners, etc.		1	1	-	-
3. Auxiliary non-operative units		6	6	-	-
- Production management		1	1	-	-
- Research & development		-	-	-	-
- Sales unit		1	1	-	-
- General administration		4	4	-	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day 3 hours Normal days/year: 297 days
Actual hours/year 2,376 hours

CAPACITY OF OPERATIVE SHOPS:

The control & partment employs an ocular method of inspection. It can handle 308 kg per 8 hours. This facility is fully utilized.

CAPACITY POWER: Process equipment: Electric motors: 180 kw	Generating equipment: Installed capacity: 1 kVA
--	--

EXTERNAL CONDITIONS:

Transport: Long distance and local areas, excellent.

Utilities: Electricity, water and gas, fair.

Community: Residential and educational, fair; health and recreational, poor (recreation centres have to be built)

III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services	Type of services	Type of services
1 Engineering staff	1 Technical and managerial personnel	1 Import and export management
2 Financial assistance	2 Industrial training	2 Education or foreign labour
3 Industrial services	3 Technical consultancy	
4 Equipment supply, construction & management		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project

In close co-operation with a subsidiary company the reporting enterprise would be able to plan an enamelled-wire factory. Enamelling furnaces could be supplied and put into operation. The necessary technical personnel could be trained on the job. Technical assistance could be provided for some years. Foreign operatives from developing countries are already employed on a seasonal basis.

III. SUPPLEMENTARY NOTES

Commission work:

The company engages in soldering, varnishing, and some drawing of copper wire as well as in varnishing of constantan wire on commission basis.

Total commission received amounted to US \$ 254,000.

III VIII. TECHNOLOGICAL CHARACTERISTICS (page 3):

The enamelling department consists of four furnaces each of which is utilized for wires of a specific range of diameters. The output depends upon how fast the varnished wires can be treated in the furnaces, which again depends upon the diameter of the wires, the kind of varnish used and the number of layers applied.

Group "O" (for diameter 0.03 - 0.15 mm)	9 machines	output 120 kg/machine/day
Group "I" (for diameter 0.16 - 0.40 mm)	4 machines	output 220 kg/machine/day
Group "II" (for diameter 0.30 - 1.0 mm)	5 machines	output 360 kg/machine/day
Group "III" (for diameter 0.80 - 4.00 mm)	1 machine	output approx. 230 kg/day

Depreciation policy:

The company applies the straight-line method of depreciation only.

$$\text{Average : } 350/360 = (3)$$

Major Products: Steel structures of various types, resonance vibrating machines, tube conveyors, belt conveyors and conveyor-rollers. Also constructs plants for gravel preparation. 1-shift operation. The capacity revenue output is about US \$ 3.5 million.

Reporting Unit: A one-establishment medium-sized enterprise; privately owned, founded in 1914 and located internationally known for production of vibration machines and gravel preparation plants. Steel construction programme offers technical specialities such as circular halls, conical inverted roof shells, mobile slab-forms for bridges, etc. Fully patented production. The business year ends for Oct. 1967 - Sept. 1968.

1 FINANCIAL CAPITAL ASSETS

	Original purchase value 1960 US \$	Replace- ment value 1960 US \$	Diff. (%)
<i>(End of 1963)</i>			
1 Primary process equipment (including installation cost)			
TOTAL	347	417	
- Primary equipment *	329	395	
- Hand tools & apparatus	18	22	
2 Buildings			
TOTAL	495	643	
- Primary industrial buildings	271	352	
- Total floor spaces 6,500 m ²			
- Warehouses	221	284	
- Auxiliary buildings	-	-	
- Office administration buildings	1	1	
- Housing	-	-	
3 Auxiliary facilities (excl. buildings)			
TOTAL	142	--	
- Internal power equipment	-	-	
- Electr. and water installations	38	--	
- Laboratory facilities	2	2	
- Means of transportation	58	69	
- Office equipment	34	--	
TOTAL PHYSICAL FIXED ASSETS (excluding land)	1,104	--	
4 Other fixed capital assets			
TOTAL	14	--	
- Land (total acreage) (**)	921	1,192	

- Land : improvements (t. acr. 1,000) 46
- Others (research and development) 565

(*) Another 10,000 m² coated with asphalt or ballast stone, is not counted here.

(**) In the government

(m) Provided by the government

9.8 Details of process equipment and capacities of primary, secondary and tertiary units

W. [REDACTED]

IV. INFLATION V. MONEY WAGES AND SALARIES

Number of persons

(1968 monthly average)						
	50	100	140	160	240	360
	100	-150	-160	-240	-360	360
	500	500	500	500	500	500
1. Local non-operatives						
- Managers	-	-	-	7	12	-
- Engineers	-	-	-	4	-	-
- Technicians	-	-	2	-	1	-
- Accountants	-	-	1	-	-	-
- Sales officers	-	-	2	5	4	-
- Clerks and typists	-	4	6	3	1	-
- Others	-	-	1	2	6	-
2. Local operatives						
- Supervisors	-	-	-	-	-	1
- Foremen	-	-	-	19	-	-
- Skilled operatives })	-	70	-	-	-	-
- Machine operators	-	-	4	-	-	-
- Craftsmen	-	-	1	-	-	-
- Truck drivers	-	-	-	-	-	-
- Unskilled operatives	13	-	-	-	-	-
- Other full-time operatives	-	2	57	-	-	-
- Part-time operatives	2	-	-	-	-	-
- Others (apprentices)	28	-	-	-	-	-

3 Former employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

Not applicable

W MANAGEMENT TABLE

Summary of procedures

Shift categories:

- Supervisory staff and foremen (for all shifts)
- Shifted operators
- Some-shifted operators (non-line operators)
- Unshifted operators

	Total	For Units			Ind Units	Ind Units
	A	B	C	D	E	F
ALL SHOPS & UNITS:	<u>33</u>	<u>52</u>	<u>-</u>	<u>168</u>	<u>-</u>	<u>-</u>
	<u>161</u>	<u>24</u>	<u>96</u>	<u>36</u>	<u>5</u>	<u>-</u>
1. Primary operative shops						
- Cutting shop	11	-	5	5	1	-
- Mechanical shop	14	1	11	1	1	-
- Locksmith's shop and assembly	31	3	55	21	2	-
- Sand blasting shop	1	-	-	1	-	-
- Painting shop	4	-	1	2	1	-
- External assembly shop	29	1	24	4	-	-
- Construction and statics shop	19	19	-	-	-	-
2. Auxiliary operative units	<u>11</u>	<u>3</u>	<u>-</u>	<u>28</u>	<u>-</u>	<u>-</u>
- Repair & maintenance	6	-	-	6	-	-
- Mechanical shop (see above)	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-
- Utilities central	-	-	-	5	-	-
- Product & material storage	-	2	-	2	-	-
- Off-site transport	-	-	-	2	-	-
- Guards, cleaners, etc.	-	1	-	1	(+ 28 apprentices)	-
3. Auxiliary non-operative units	<u>41</u>	<u>18</u>	<u>-</u>	<u>1</u>	<u>-</u>	<u>-</u>
- Production management	10	-	-	3	-	-
- Research & development	1	1	-	-	-	-
- Sales unit	13	13	-	-	-	-
- Accounting	3	-	-	-	-	-
- General administration	9	9	-	-	-	-

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	1st	2nd	3rd
Shift hours/day (*)	9	-	-
Actual hours/year	2,120	-	-
	220	-	-

(*) Report, February 9, 1943, for the loss of two workers during the year considered.

V. ANIMAL PRODUCTION

Products for group of products	Wt. of first prod.	Quantity produced		Avg unit price in factory US\$/M	Total output value US\$ M (000)
		Unit	Quantity		
Steel structures of various types (*)	1894	t	4,000	(M)illion av. v.	1,420
Gravel preparation plant	1948		...	1,125	143
Resonance vibrating machines	1748	No.	50	...	115
Resonance tube conveyor	1949	"	10	1,740	116
Belt conveyor and belt conveyor-rollers	1950	"	10	21.8	16
Revenue from licensing contracts			...	...	60

(**) Includes sales tax.

TOTAL VALUE OF PRODUCTION: \$1,617

VI VALUE ADDED

	Total value added	Value added
(196)		
1. Annual wages & salaries		
- Operative workers	100	
(1) personnel		
- Non-operative workers	100	
(1) personnel		
2. Other payments for employees		
3. Annual depreciation		
- Machinery & equipment	10	
- Buildings & other facilities	10	
- Non-financial capital assets	10	
4. Rentals paid		
5. Interest & royalties		
6. Sales tax (excise) etc.	10	
7. Other indirect business taxes	10	
8. (-) Subsidies		
9. Corporate income before tax		
(*) Employment tax, property tax, etc.	TOTAL VALUE ADDED	100

*) Employment tax,
property tax, etc. **TOTAL VALUE ADDED** 1, v-1

DISCOVERY OF MAJOR PROJECTS

Steel structures:	All kinds of light and heavy steel shapes for constructions; single production; high quality standard; terms of delivery 1-4 months.
Vibrating screens:	Partly serial production; the proper mass balancing of the machine enables both troughs to be used for screening purposes; terms of delivery 1,5-2 months; world-wide protection of patents.
Vibration conveying plant:	Partly serial production; screens or troughs are fully used for working purposes and by such the capacity is doubled and the dead weight is reduced to a minimum; terms of delivery 1,5-2 months; world-wide protection of patents and license contracts.
Belt conveyors:	Partly serial production; portable, mobile and stationary types; terms of delivery 1,5-3 months.
Sand and gravel preparation plants:	Single production; for grading and washing of raw gravel in 6 grain sizes; terms of delivery 1,5-2 months.

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Only spare-parts (ball bearings, wire netting, etc.) for the sold machines are supplied to customers. But these re-sellers are treated here as an integral part of the production programme.

Consumers of products:

Steel structures: All industry branches, power plants, public authorities and municipal enterprises.
Vibration machines, belt conveyors and plants: Mining industry, stone working industry, lime and cement industry, chemical industry, building firms.

Sales organization:

through employees (7 technicians, 1 architect, 2 persons supervising projects).

Market and competition:

Steel structures: This firm's share is 5% of total production in the country; keen competition with other larger firms for heavy steel structures; competition with a number of smaller firms for light steel structures.
Preparation plant: 40% of total production in the country (8-10 units per year).
Vibration machines: 80-90% of total production in the country (65-70 units per year).
Belt conveyors: Large scale belt conveyors only. The domestic market can be satisfied by this firm's production alone.

11

Total annual export

<u>New products</u>	To Germany	To Germany	To Germany
Vibration machines and spare parts	—	1.3	—
Preparation plants	9.6	—	—
Other	—	—	—

Export Register

The prices of exports are kept a little lower than those of domestic sales. The exports take place normally in connection with licensing and know-how contracts because the weight value ratio is high and high duties are charged for exports of individual machines.

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1. Energy and water		200	200	200	200	200	200
TOTAL:							200
- Electricity	000 kWh	508					14
- Coke	t	5					0,2
- Fuel oil	t	260					8
- Petroleum	t	39					5
- Water	000 m ³	1					1
			(domestic refinery)				
2. Production materials							1,119
TOTAL:							
- Rolled material: plates	t	2,051					317
profiles	t	1,450					204
tubes	t	100					24
- Screws and small standard parts		..					110
- Electrodes and welding rods	kg	~ 400					20
- Welding gas	kg	~ 50					11
- Other materials: rubber	-						26
steel wires	-						22
other	-						63
- Motors, gears, and other parts for machines	-						318

Type	Value
3. Other materials & supplies PTPAI	18
- Packaging material (wood, cardboard, paper)	3
- Parts, supplies & services	19
- Other materials & supplies	1.
4. Business services purchased PTPAI	228
- Transportation, storage & insurance	57
- Communication, advertising & other business services	171
5. Work performed by subcontractors PTPAI	64

TOTAL VALUE OF CONSUMPTION: 1,551

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Engineering study	5. Technical and managerial personnel	8. Import and export management
2. Financial assistance	6. Industrial training	9. Admission of foreign labour
3. Industrial services	7. Technical consultancy	
4. Equipment supply		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of projects
3	FRG			The company is greatly interested in offering know-how contracts for the whole product-mix, especially for vibrating screens, vibration conveying plants, belt conveyor-pollers, mobile slab forms for bridges, circular halls with conical inverted shell roofs, sports alleys. Such contracts will include provision of technical assistance by supplying drawings, training and spare-parts. But the company is not interested in selling its patent rights.
4	"			Possibility of supplying screen and transport equipment for bulk materials (minerals, coke, chemicals) and washing and clarifying equipment for minerals.
6	"			Possibility of industrial training in the own plant, only in connection with delivery of ordered equipment and know-how contracts.
7	"			Trouble-shooting advisory service and provision of pre-investment studies (especially for belt conveyors, screens, and preparation plants).

XII. SUPPLEMENTS & NOTES

Cost-revenue relationships:

- Annual production value (as well as product prices) is given inclusive of sales taxes which are in the range of:
- Net accumulation of inventories of finished products (which is included in the value of annual production) was: (+) 10% for steel structures, (+) 1.5% for gravel preparation plant (components), and (-) 4% for resonance vibrating machines, respectively, in relation to the annual production values.
- The annual operating cost do not include the cost elements affecting the balance sheet of the enterprise, such as devaluation of inventories (which actually amounted to nearly US \$ 4,000 during the year considered), additional indemnity insurance (US \$ 32,000), expenses carried over from the previous year, tax adjustments, etc.

Depreciation policies:

The straight-line method is applied to the original purchase value. For some items, special accelerated depreciation, as legally permitted, is applied to facilitate the enterprise's research and development activities.

Inventory policies and inventory pricing:

A considerable part of production takes place according to orders (specific designs as ordered) and the enterprise often suffers bottlenecks in the supply of production materials as orders fluctuate (especially in the turning points of business fluctuations).

Research and development:

An amount equal to 2.5% of the total value of production was spent on research and development.

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under 7.1.b. has been adjusted accordingly.

Major Products: Boilers, steel bridges, hydraulic steel superstructures, theatres stage equipment, apparatuses, tanks, penstocks, pressure vessels, cranes, ropeways, inclined lifts, steel and grey iron castings, etc. The enterprise is capable of producing annually about 40 mill. US \$ primarily on one-shift operation. Almost 60% of the annual production, and 21.9 mill. US \$ respectively, are exported to all continents.

Reporting Unit: A five-establishment enterprise, joint-stock company with a share capital of 4 mill. US \$; 4,000 employees. The individual establishments are very favourably located to the sources of raw material. Designs are exclusively programmed to order; licence agreements are given to companies throughout the world. Research and development are in the field of nuclear energy. The enterprise was originally founded in 1881, but most of the production facilities are not older than 10 years. This study summarizes all 5 establishments.

I. FIXED CAPITAL ASSETS

	(End of 1967)	Original purchase value (1000 US \$)	Replace ment value (1000 US \$)	Ave age (Yrs.)
1 Primary process equipment (including installation cost)				
TOTAL	1,737	1,737	1,737	10
- Process equipment *	1,737	1,737	1,737	10
- Hand tools & apparatuses	1	1	1	1
2 Buildings	1,111	1,111	1,111	10
TOTAL	1,111	1,111	1,111	10
Primary industrial buildings	1,111	1,111	1,111	10
Total floor space: 111,430 m ²	111,430	111,430	111,430	10
- Auxiliary buildings	1	1	1	1
- Warehouses	1	1	1	1
- Office administration buildings	1	1	1	1
- Housing	1	1	1	1
3 Auxiliary facilities (excl. buildings)	1,141	1,141	1,141	10
TOTAL	1,141	1,141	1,141	10
Internal power equipment	1	1	1	1
- Laboratory facilities	106	106	106	10
- Means of transportation	114	114	114	10
- Office equipment	1,127	1,127	1,127	10
TOTAL PHYSICAL FIXED ASSETS (excluding land)	1,141	1,141	1,141	10
4 Other fixed capital assets	1,021	1,021	1,021	10
TOTAL	1,021	1,021	1,021	10
- Land (total acreage: 11,143 m ²)	1	1	1	1
- Land improvements (11,143 m ²)	1	1	1	1
- Others (mostly auxiliary facilities)	1,020	1,020	1,020	10

(*) This replacement value is included in 1.1. "Buildings".

*See Details of physical equipment and annual consumption of operative shops given on Page Three (Section I.B).

EXTERNAL CONDITIONS:

Transport	external long distance	good
	internal long distance	good
	local and city	good

UTILITIES:

Electricity	good
Water	good
Gas	good

COMMUNITY:

Residence	good
Health and recreation	good
Education	good

Own Welfare Facilities: The company has several social and recreational facilities.

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories	16,327	
TOTAL	16,327	
- Production materials	1,314	3
- Other input materials	1,073	3
- Work-in-process	13,933	3
- Finished products	(*)	—

(*) The company produces exclusively to order.

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	—	—
Actual hours/year	1,100	—	—
Actual days/year	240	—	—
			days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(As per Sept. 1967)

	1st shift	100	140	160	240	over 560
	100	100	100	100	100	100
1 Local non operatives	—	—	—	—	—	10
- Managers	—	—	—	—	—	22
- Engineers	—	—	—	—	—	—
- Technicians	—	—	—	—	—	—
- Accountants	—	—	—	—	—	—
- Sales officers	—	—	—	—	—	—
- Clerks and typists	—	—	—	—	—	—
2 Local operatives	—	—	—	—	—	—
- Supervisors	—	—	—	—	—	—
- Foremen	—	—	—	—	—	—
- Skilled operatives (*)	—	16	1068	309	50	—
- Machine operators	—	94	236	—	—	—
- Craftsmen (*)	—	—	—	—	—	—
- Truck drivers	—	—	—	—	—	—
- Unskilled operatives	17	118	—	—	—	—
- Other full-time operatives	—	—	—	—	—	—
- Part-time operatives	—	—	—	—	—	—
3 Foreign employees	—	—	—	—	—	—
- Managerial staff	—	—	—	—	—	—
- Technical staff	—	—	—	—	—	—
- Other skilled operatives	—	—	—	—	—	—
- Unskilled operatives	—	12	—	—	—	—
- Semi-skilled operatives	—	17	3	—	—	—

(*) Craftsmen are included in "Skilled operatives".

IV. MANNING TABLE

(Number of persons)

(1967 average)

	Total	1st Shift (*)	2nd Shift	3rd Shift
	A	B	C	D
ALL SHOPS & UNITS:	4,009	1,261	—	—
1 Primary operative shops	2,207	152	1,467	527

- Steel superstructures	186	16	270	—
- Mechanical engineering	150	10	140	—
- Boiler department	335	16	320	—
- Welding department	208	16	193	—
- Light structures	21	3	18	—
- Grey-iron casting	23	3	20	—
- Steel casting	74	5	46	—
- Auxiliary casting	30	5	25	—
- Corrosion unit	37	4	33	—
- Assembly	412	57	350	—
- Training department and others	140	6	140	—
2 Auxiliary operative units	741	58	683	—
- Repair & maintenance	109	11	98	—
- Mechanical shop	—	—	—	—
- Tooling shop	—	—	—	—
- Utilities control	49	14	34	—
- Product & material storage	36	11	65	—
- Off-site transport	142	—	242	—
- Guards, cleaners, etc.	37	—	87	—
- Cafeteria, technical department laboratory, etc.	152	2	157	—
3 Auxiliary non-operative units	1,261	1,051	10	—
- Production management	65	65	—	—
- Research & development	46	36	10	—
- Sales unit	105	195	—	—
- Accounting	31	41	—	—
- General administration	12	12	—	—
- Engineering and design (**)	562	662	—	—

(**) The figures under column "C" include all skill categories.

(**) Both engineering and design are organized according to the primary operative shops.

VIII. TECHNOLOGICAL CHARACTERISTICS

(1)

DETAIL OF PROCESS EQUIPMENT (1.1.)

Steel superstructure department:

Strip levellers

Folding machines

Drilling machines (wall type radial)

Piercing/stamping machines

Profile rolling machines

Plate-edge planing machines

Punch and shaping machines

Boiler department:

Boring machines (vertical radial)

Rolling machines

Tube bending machines

Mechanical engineering department:

Drilling machines (wall type radial)

Lathes of various kinds

Milling machines for cog-wheels

Grinding machines (cylindrical)

Threading machines

Pushing and shaping machines

Planing machines (100-220 mm Ø)

Drilling machines (100-220 mm Ø)

Light structure department:

Plate shear

Folding machines

Corrosion unit dept.:

Sand-blasting apparatuses

Equipment for anti-corrosion treatment

General service: Annealing furnace

Other machines

	Original Purchase Value 1960 US \$	Regis- tered value 1960 US \$	Ave. Age Yrs.	Av. Age Prod.

(2) Due to the complex and different production processes utilized in the 5 establishments, the process equipment could only be grouped in aggregates.

A note on the fixed capital assets of the enterprise:

According to the enterprise's balance sheet, as at the beginning of 1967, the book value (after depreciation) amounted to US \$ 6.5 million annual physical "losses and retirements" about US \$ 100,000 (mostly machinery, equipment and tools) while annual depreciation amounts to approx. US \$ 700,000 and annual new acquisition US \$ 640,000. The "original purchase value", as indicated in "I" of the Profile, reflects mostly the post-1960 depreciations minus retirements in the subsequent years.

CAPACITY POWER

Process equipment:

electric motors 1,800 kW

Generating equipment:

installed capacity 1,200 kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Mechanization:	C moderate standard
A most advanced	D apparently short of today's standard
B considerably high standard	E almost / outdated

Automation:	I fully automated
H semi-automated	J non-automated

Major primary operative shops

Kind of process involved

Mechan.

Automa.

Further details

Steel superstructures

Boiler

Mechanical engineering

Innovation and steel casting

Assembly

CAPACITY UTILIZATION:

Full capacity output approx. 100 %

Approximate planned production capacity operation without large additional investments being employed.

Current utilization

Major products for processing

Up to 30 40 50 60 70 80 90 100

Boiler department

Steel superstructures department

Mechanical engineering department

In order to utilize the capacity of the significant investment in new facilities to a greater extent, the enterprise is preparing to programme the production even more flexibly. Nevertheless, the 1967 total output was slightly lower than in 1966, with 12 percent being less employed.

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963
1964
1965
1966
1967
1968

Total sales 1960 US \$	No. of persons employed	Total exports 1960 US \$
35,715	4,100	19,961
44,710	4,000	28,730
35,410	4,000	26,100
31,760	4,100	14,630
31,440	4,000	21,100
34,770	3,400	11,140

2. Investments in the past:

From 1960 to 1967: 4,721

Approximate amount 1960 US \$	Type of investment
Primary industrial buildings and land	
Process equipment	
Auxiliary Facilities	

3. Future Plan:

From 1967 to 1971: 1,716

Process equipment and primary industrial buildings. The company tries to increase its productivity through continuous rationalisation in order to ensure improved technological standards and international competitiveness as well.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C - confidential; figures of these size groups are included in those underlined.

(1964) Manufacture of metal products excl. industry machinery and transport equipment (ISIC Code 350-1)

1. Size groups by number of persons employed:	No. of estab.	No. of emp.	Ave. W. & S. per pers. (US \$)	Ave. gross prod. val/ per pers. (US \$)	Ave. value addit./gross prod. ratio (%)	2. Size groups by annual sales of production 1960 US \$:	No. of estab.	No. of emp.	Ave. W. & S. per pers. (US \$)	Ave. gross prod. val/ per pers. (US \$)	Ave. value addit./gross prod. ratio (%)
up to 10	100	312	1,303	7,137	53	up to 20	22	82	933	5,006	64
20 - 99	21	874	1,074	1,143	50	20 -	40	57	1,488	7,244	57
100 - 499	9	4,252	1,045	3,262	45	40 -	267	351	1,452	6,164	53
500 - 999	2	0	0	0	0	200 -	400	381	1,505	7,382	51
over 1,000	1	0	0	0	0	400 -	2,000	1,102	1,834	8,245	48
						over	2,000	6	3,472	2,104	44
TOTAL	133	5,445	1,941	8,657	46	TOTAL	133	5,445	1,941	8,657	46

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service		
1. Engineering study	1. Technical and managerial personnel	1. Import and export management
2. Financial assistance	2. Industrial training	2. Assistance of foreign technical consultation
3. Industrial services	3. Technical consultancy	3. Advice
4. Equipment supply	4. Installation & maintenance	

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years: International projects carried out by the company in developing countries.

Type of service	Country or region	No. of projects	Field of industry	Description of projects
1,1,5	Asia	25	Power plant Oil refinery Agriculture Harbour Mining industry Irrigation plant Thermal power plant	Irrigation, steel structures, oil refineries, mining, agriculture, power plants, industrial, public water, etc. Steel structures, oil tanks, etc. Irrigation, harbour, irrigation, etc. Harbour equipment, oil storage tanks, etc. Coal washing plant Irrigation Boiler houses, oil tanks, etc., etc.
	Africa	3	Power plant	Power-houses, sugar, sugar cane, oil, oil refinery, etc.
	America	6	Agriculture Power plant Thermal power plant	Irrigation, agriculture, oil refineries, power plants, steel structures, oil tanks, etc. Boiler houses, etc.
	Europe	2	Thermal power plant Oil refinery	Boiler houses, etc. Special waste heat boilers, etc.
1	Western Europe, Japan, USA	-	Steel industry	Steel structures, steel components, etc., etc., etc., etc., etc., world market, etc., etc.

XIII. SUPPLEMENTS & NOTES

In principle the company is prepared to offer the following services for co-operation with developing countries:Engineering study:

Type of industry: Oil, gas, paper, cellulose, cement, magnesite, food, chemical, mining, dairy, meat and pharmaceutical industry.

To some extent the company could supply its products to all industries.

Form of study: Experience in all kinds of studies, e.g. overall studies for complete plants and contracts for the delivery of parts of processing and heat treatment equipment made of metal could be provided upon request. Feasibility and cost studies can be prepared as well.

Patents and licences:

Licence agreements could be signed for the manufacture of elevated water tanks, apparatus for the treatment of wastewater, dust collecting and gas cleaning equipment, wet scrubbers, heat exchangers for nuclear power plants, etc.

Industrial training:

The company conducts own training programmes and possesses facilities to train welders, boilermakers, fitters, painters, etc., operators, etc. Practical experience can be gathered on the job.

Technical consultancy:

Trouble shooting advisory service for repair and maintenance of equipment could be supplied.

Export transactions:

The company offers its production programme at world market prices.

CONTRACT AND COMMISSION WORK: The company performed all kinds of material detaching work for some 400 companies on commission basis. Total commission received amounted to US \$ 9,7 million. The commission work is based on short-term agreements.

On the other hand, 50 subcontractors received orders from the company to line boiler with brickwork and to mount electrical installations. Total commission paid was close to US 1,7 million.

DESCRIPTION OF MAJOR PRODUCTS (cont'd):

Steam boiler plants: Steam boilers of all systems, for all capacities and pressures, for natural circulation and forced flow, and for all kinds of fuel. Heavy duty vertical tube boilers, radiation boilers, waste heat boilers, once-through (Benson) boilers, fire tube boilers, locomotive boilers, low pressure boilers, etc.

Nuclear power plant: Primary and secondary circuit pressure parts of reactors; steam generators and heat exchangers for all nuclear coolants (gases, liquids, liquid metals), equipment for nuclear magnetohydrodynamic and for turbine power plants such as high temperature recuperators.

Major Products: Irrigation equipment, agricultural equipment, steel profiles.

In 1968 total value of production amounted to about US \$ 6.4 million based on 1-shift operation.

Reporting Unit: A one-establishment enterprise; privately owned; founded in 1946; 550 employees; about 33% exports; no licensed production.**I. FIXED CAPITAL ASSETS**

	Original purchase value (1968 US \$)	Replace- ment value (1968 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	1,257	3,262	
- Process equipment	1,216	3,216	10
- Hand tools & apparatuses	41	46	4
2. Buildings	1,157	1,431	
- Primary industrial buildings (total floor space: 15,000 m ²)	155	193	10
- Auxiliary buildings	351	464	10
- Warehouses	73	116	10
- Office/administration buildings	347	387	10
- Housing	231	271	20
3. Auxiliary facilities (excl. buildings)	348	469	
- Internal power equipment	8	13	15
- Laboratory facilities	17	23	10
- Means of transportation	142	162	4
- Office equipment	181	271	10
TOTAL PHYSICAL FIXED ASSETS (excluding land)	2,762	5,162	
4. Other fixed capital assets	241	438	
TOTAL			
- Land (total acreage: 114,150 m ²)	97	221	-
- Land improvements (t.a.c.r. 51,476 ")	72	101	-
- Others	72	116	--

*NB: Details of process equipment and details of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS

Transport	external long distance	fair
	internal long distance	"
	local and city	"
Utilities	electricity	fair
	water	"
	gas	-
Community	residence	fair
	health and recreation	"
	education	"

Own Welfare Facilities: Recreation home, cafeteria.

III. INVENTORIES

	Actual value (1968 US \$)	Number of months
Inventories		
TOTAL	1,706	
- Production materials		
- Other input materials	524	3
- Work-in-process	494	2
- Finished products	688	1.5

WORKING TIME PER OPERATIVE WORKER.

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	9	-	-	hours
Actual hours/year	2,250	-	-	hours
Actual days/year	250	-	-	days

H. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

	(1968 monthly average)					
	up to 100 US\$	100-140 US\$	140-160 US\$	160-240 US\$	240-560 US\$	over 560 US\$

1. Local non-operatives

- Managers	-	-	-	-	-	3
- Engineers	-	-	-	3	15	-
- Technicians	-	-	8	29	3	-
- Accountants	-	-	-	1	1	-
- Sales officers	-	6	6	9	9	7
- Clerks and typists	3	21	17	8	3	-
- Apprentices	2	-	-	-	-	-

2. Local operatives

- Supervisors	-	-	1	3	-	-
- Foremen	-	2	13	-	-	-
- Skilled operatives	15	124	42	34	-	-
- Machine operators	3	17	17	20	-	-
- Craftsmen	-	1	1	5	-	-
- Truck drivers	-	-	-	-	-	-
- Unskilled operatives	4	15	6	-	-	-
- Other full-time operatives	6	43	2	2	-	-
- Part-time operatives	-	-	-	-	-	-
- Apprentices	25	-	-	-	-	-

3. Foreign employees

- Managerial staff						not applicable
- Technical staff						
- Other skilled operatives						
- Unskilled operatives						

IV. MANNING TABLE

(Number of personnel)

	(End of 1968)					
	Total	A	B	C	D	E

ALL SHOPS & UNITS:

	Total	A	B	C	D	E
	555	158	-	397	-	-

1. Primary operative shops

- Pipe manufacturing department	79	7	13	20	39	-
- Pump and sprinkler manufacturing department	115	9	35	53	18	-
- Tank manufacturing department	23	1	12	8	2	-
- Profile manufacturing department	21	2	-	16	3	-

2. Auxiliary operative units

- Repair & maintenance	46	1	-	45	-	-
- Mechanical shop	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-
- Utilities control	10	1	-	9	-	-
- Product & material storage	20	4	-	16	-	-
- Off-site transport	10	1	-	9	-	-
- Guards, cleaners, sto.	44	1	-	43	-	-
- Others	14	2	-	12	-	-

3. Auxiliary non-operative units

- Production management	4	4	-	-	-	-
- Research & development (*)	49	15	-	34	-	-
- Sales unit	79	69	-	10	-	-
- Accounting	23	23	-	-	-	-
- General administration	18	18	-	-	-	-

(*) including 25 apprentices

IV. ANNUAL PRODUCTION(1966)
Products for group of products

Steel mould shots:
 - 3.175 m/m (1/8")
 - 3.969 m/m (5/32")
 - 4.763 m/m (3/16")
 - 6.350 m/m (1/4")

Yr of first prod.	Quantity produced Unit	Nominal capacity output	Unit price on factory US \$***	Total production value 1000 US \$
			(average)	
1966	t	25	11.10	278
"	"	50	11.10	520
"	"	60	11.40	640
"	"	1	258.40	258.40
				1,100

TOTAL VALUE OF PRODUCTION:

* The nominal capacity output is estimated on the basis of 3 shifts and 7 working days a week.

** Without sales tax

Exports:

Exports are made at the following unit prices:

Steel mould shots - 3.175 m/m (1/8") US \$ 1,439/t
 - 3.969 m/m (5/32") " " 313/t
 - 4.763 m/m (3/16") " " 674/t

No specific collateral benefits are connected with the exports.

Capacity utilisation:

The factory is only in its first year of operation; although the "nominal capacity output" indicated in the above table may be an over-estimate by some 20-30 %, the 1966 level of operation is considered as being significantly lower than that of full capacity operation. The delivery system for materials and products is rather imperfect.

V. ANNUAL CONSUMPTION

(1966)

1. Energy and water**TOTAL**

	Unit	Purchase	% imported	Tariff rate	Total consumption value 1000 US \$
- Electricity	000 KWh	227	-	-	1
- Gas	000 l	35	-	-	1

2. Production materials**TOTAL**

- Steel wire for 3.175 m/m (1/8")	t	35	69	11
" " 3.969 m/m (5/32")	"	13	49	4
" " 4.763 m/m (3/16")	"	61	50	19
" " 6.350 m/m (1/4")	"	4	-	1
(Inventory accmulation) 1-7%				

* The quantity and value of specific production materials relate to the purchase during the year. The actual consumption amounts to \$ 26,000 after deduction of the inventory accumulation.

VII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY(1965) Manufacture of metal products except machinery
Industry group: and transport equipment (ISIC: 350)

1. Size groups by number of persons employed

Number of employm.	Avg. W. & E. per pers.	Avg. prod. val. per pers.	Avg. exp. gen prod. ratio* (%)		
up to 5	2,889	8,021	354	1,664	42
6 - 15	768	6,954	680	3,560	65
over 15	911	82,507	1,257	5,890	78

TOTAL 4,568 97,482 1,141 5,377 76

2. Size groups by size of annual production
1000 US \$:

up to 2	5,139	8,294	52	557	38
2 - 8	5,139	5,879	312	1,432	34
over 8	1,913	90,215	1,207	5,728	77

TOTAL 9,190 104,386 1,065 5,075 76

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1966)

	Value 1000 US \$
1. Wages & salaries	
- Employees in direct production (1-11 persons)	
- Other employees (12-14 persons)	
2. Other payments for employees	
3. Annual depreciation	
4. Rentals paid	
5. Interest & royalties	
6. Sales tax (not included in W.C.A.)	
7. Other ind. bus. taxes	
8. (1) Subsidies	
9. Corporate income before tax	

VII. MONTHLY EARNING RATES(End of 1965) No. of Average earning
pers. pers. rates

1. Local non-operatives	No. of pers.	Average earning per pers.
TOTAL		
- Managers		
- Engineers		
- Technicians		
- Accountants		
- Sales officers		
- Other professional staff		
- Clerks and typists		

2. Local operatives

2. Local operatives	No. of pers.	Average earning per pers.
TOTAL		
- Supervisors		
- Foremen		
- Machine operators		
- Craftsmen		
- Truck drivers		
- Other full-time operatives		
- Unskilled & part-time operatives		

3. Foreign employees

3. Foreign employees	No. of pers.	Average earning per pers.
TOTAL		
- Management staff		

Total	Consumption value 1000 US \$
	12

3. Other materials & supplies

3. Other materials & supplies	No. of pers.	Average earning per pers.
TOTAL		
- Packaging (Unprinted paper and wood)		
- Repair & maintenance		
- Non-factor service inputs		

4. Business services purchased

4. Business services purchased	No. of pers.	Average earning per pers.
TOTAL		
- Transport, storage & insurance		
- Communication, advertisements, etc.		

5. Work performed by sub-contractors

5. Work performed by sub-contractors	No. of pers.	Average earning per pers.
TOTAL		

IX. SUPPLEMENTS**GOVERNMENT POLICIES:**

The importation of production materials and materials of high quality is forbidden by the federal government. Nationally-produced materials often do not meet the desired standard.

FUTURE PLANS:

Within 2 or 3 years, approximately U.S. \$ 40,000 will be invested mainly for the expansion of the forging department and then for a corresponding expansion of the other departments. The additional operatives to be employed will be 4 persons for each of the three shifts: 6 persons in total.

DEPRECIATION:

Of the total allowance US \$ 15,000, the depreciation of machinery and equipment amounts to US \$ 6,640, the rest being for the amortization of non-physical capital.

V. ANNUAL PRODUCTION

(1968)	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (1000 US \$)
Products by group of products					
Irrigation equipment					
Quickcoupling pipes	1947	m	1,160,000		2,641
Fittings	1947	pieces	..		
Pumps and pumping units	1947	pieces	2,565	(*)	459
Sprinklers	1953	pieces	67,020	(*)	593
Agricultural equipment					
Vacuum tanks	1967	pieces	1,069	(*)	1,304
Stable equipment	1967	pieces	..		255
Steel profiles	1960	pieces	..		1,042
Other revenue					104
(*) The average unit price ex factory cannot be given, since the total output value includes unidentified amounts of spare parts and extras.					
TOTAL VALUE OF PRODUCTION:				6,398	1000 US \$

VI. VALUE ADDED

(1968)	Total value (1000 US \$)
1. Annual wages & salaries	1,300
- Operative workers	645
- 397 persons	
- Non-operative workers	665
- 158 persons	
2. Other payments for employees	169
3. Annual depreciation	146
- Machinery & equipment	112
- Buildings & other facilities	31
- Non-physical capital assets	13
4. Rentals paid	76
5. Interest & royalties	132
6. Sales tax	201
7. Other indirect business taxes (**)	120
8. () Subsidies	—
9. Corporate income before tax	109
(*) Trade tax, etc.	
TOTAL VALUE ADDED	
	2,683

DESCRIPTION OF MAJOR PRODUCTS:

Irrigation pipes can be installed practically everywhere and can be utilized for all kinds of plantations.

Advantages of light steel pipe versus aluminium pipe: more rugged, less deflecting, high working pressure, easy to repair, high bending angle (180°). The pipe coupling system can be installed quickly and easily.

Serial production.

Terms of delivery: within 1 month.

MARKET ASPECTS:

Re-sales:

Asbestos-cement pipe, various agricultural accessories.

Sales organisation:

Own domestic sales organisation and own representatives in 3 foreign countries; in 78 other countries represented by agencies.

Share in the domestic market:

Irrigation plants: 80%.

Major export areas:

South and North-America, Asia.

Competition in the market:

Irrigation plants: no competition on the domestic market, however, heavy competition on the world market.

Consumers of products:

Agricultural establishments as well as industrial plants (for compressed-air pipes, etc.).

EXPORT:

Total annual export: US \$ 2,329,000

Major products	To Western countries	To Eastern countries	To Developing countries
Irrigation plants	40	15	45

Export price policy: Price policy depending on market situation.

Government policy:

The government subsidises export by way of repayable export tax, consolidated and exported, and during the present and previous financial years the same has indicated interest rates from advanced governments.

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed Unit	Quantity	% import	Average import value	Total consumption value (1000 US \$)
1. Energy and water					
TOTAL:					80
- Electricity	000 kWh	2,383		42	
- Coal, coke	t	1,150		9	
- Fuel oil	t	150		5	
- Petrol and diesel oil	t	137		20	
- Water	000 m³	65 (*)		4	
(*) 35,000 m³ are self-supplied and not counted in the total consumption value.					
2. Production materials					
TOTAL:				2,067	
- Cold rolled strip steel	t	3,580		408	
- Other production material	..	..		1,609	
- Welding material, paints, and lubricants	..	..		50	

	Total consumption value (1000 US \$)
3. Other materials & supplies	134
TOTAL:	44
- Packaging material	
- Parts, supplies & services	28
- Other materials & supplies	62
4. Business services purchased	1,146
TOTAL:	
- Transportation, storage & insurance	308
- Communication, advertising & other business services	718
5. Work performed by subcontractors	408
TOTAL:	
TOTAL VALUE OF CONSUMPTION:	3,715

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)	Number	Original Purchase Value US \$ 000	Current Value US \$ 000	Av. age years	Av. age prod.	Remarks	Supplier country	Year of installa- tion	Daily running time	Capacity output	Remarks:	
											20 Purchased second-hand	21 Operatives
Rolling mill	4	215	232	13	76	Austria	1964	20 hrs	2,500 m/day			
Pipe manufacturing plant	..	70	1,122	12	-	Germany, F.R.	1956	9 hrs	36 t/shift			
Pickling plant	..	82	135	12	-	Austria	1956	24 "	9 t/shift			
Strip cutting machine	1	42	132	12	-	Germany, F.R.	1956	9 hrs	9 t/shift			
Profile manufacturing equipment	..	72	136	15	-							
Turning lathes	46	136	348	10	-							
Drilling machines	35	39	66	10	-							
Presses	26	119	310	10	-	Austria	1959	16 hrs	1,200 pcu/day			
Cutters and saws	45	29	50	10	-							
Welders	37	40	66	10	-							
Transport equipment	..	105	178	10	-							
Electrostatic painting equipment	7	41	54	7	-	Austria, Germ. 1964	9 hrs					
Others	..	226	387	10	-							

CAPACITY POWER:
Process equipment:
electric motors 118 - 900

Generating equipment:
installed capacity 11VA -

CAPACITY OF PRIMARY OPERATIVE SHOPS

Major primary operative shop	Kind of process involved	Mechanization:		C modern standard	D apparently short of today's standard	E others / modernized	Automation:	F fully automated	H non-automated
		A non-advanced	B considerably high standard						
Pipe manufacturing department	Cold-rolling of strip iron, bending, automatic pipe welding, preseing, punching, completing, welding of fittings	C	II						
Pump and sprinkler manufacturing department	Turning, milling, drilling, grinding, foundry, assembling, painting	C	III						
Tank manufacturing department	Cutting, rolling, welding, assembling, painting	C	III						
Profile manufacturing department	Punching, forming, painting, packaging	C	II						

CAPACITY UTILIZATION:

Full capacity output US \$ 7, XX, XX

Current utilization: based on 1-shift operation.

Major products (or processes)	up to	30	40	50	60	70	80	90	100	Approximate %
	Major products (or processes)									
Pipe manufacturing department	x									
Pump and sprinkler manufacturing department	x									
Tank manufacturing department	x									
Profile manufacturing	x									

IX. HISTORY & PLAN

1. Performance in the past:	Total output	No. of persons employed	Total exports
	US \$ 000		US \$ 000
Year: 1963	4,680	540	2,030
1964	4,630	544	1,860
1965	5,420	623	2,160
1966	5,840	587	2,590
1967	5,740	608	2,430
1968	6,090	555	2,330

2. Investments in the past:	Approximate amount	Type of investments
	US \$ 000	
From 1965 to 1967 :	980	Buildings
" 1955 " 1967 :	900	Machinery
" 1955 " 1967 :	890	Others

3. Future Plan:		
From 19 .. to 19 .. :	..	Company intends to set up an own galvanising plant and to modernize the machinery and equipment. The amount to be spent will be financed out of depreciation funds.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

- confidential; figures of these size groups are included in those underlined.

(1964) Manufacture of metal products excl. machinery and transport equipment (ISIC Code 350 -)

1. Size groups by number of persons employed	No. of employ.	No. of empl.	Av. W.S.	Av. gross prod. val/ per pers.	Av. value additionals prod. val/ per pers.	Av. value prod. val/ per pers.	2. Size groups by annual value of production	
							US \$ 000	US \$ 000
up to 19	100	312	1,303	7,247	51		65	933
20 - 49	21	878	1,052	7,648	50		80	5,006
100 - 499	9	4,255	2,048	8,369	45		40	544
500 - 999	2	0	0	0	0		26	7,244
over 1,000	1	0	0	0	0		10	53
							30	1,452
							10	1,505
							10	1,834
							6	2,104
								9,289
TOTAL	133	5,445	1,941	8,657	46			64

II. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service	Type of contract
1 Engineering study	1 Technical and managerial personnel
2 Project/contractor	2 Foreign trainees
3 Industrial services	3 Industrial training
4 Equipment supply	4 Technical consultancy
5 Consultancy & management	5 Administration of foreign offices

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of service	Country or region	No. of projects	Name of industry	Description of project
1, 5, 8	Mosambique	2	Irrigation plants for sugar cane	Sprinkled areas: 14,500 acres and 3,200 acres
8	Tunisia	1	Irrigation plant	162,000 m quick coupling pipes, 5,000 sprinklers of various types, 10,000 standard pipe couplings with automatic valves
1, 5, 8	Ghana	1	Irrigation plant	Sprinkled areas: 3,500 acres
8	South Africa	1	Irrigation plant for sugar cane	Sprinkled areas: 1,150 acres
8	Rhodesia	2	Irrigation plants for sugar cane	Sprinkled areas: 3,000 and 8,700 acres
1, 5, 8	Guinea	1	Irrigation plant for bananas	Sprinkled areas: 4,400 acres

Further irrigation plants with less than 1,000 acres of sprinkled area were erected in Mozambique, Swaziland, Rhodesia, and Kenya.

2. Further co-operation possibilities with developing countries:

- 1 Company could furnish engineering studies for the production of irrigation plants.
- 3 The company is interested in supplying know-how contracts for the construction of irrigation plants.
- 4 Turn-key plants as well as single machines could be secured.
- 5 Could be provided.
- 6 Foreign personnel could receive in-plant training.
- 7 Trouble-shooting advisory service could be rendered.

III. SUPPLEMENTS & NOTES

Contract and commission work:

Since the company does not yet operate an own galvanisation plant to coat irrigation pipes, subcontractors had to be employed. Total commission paid amounted to US \$ 400,000.

On the other hand, the company performed commission work (turning) amounting to some US \$ 6,000.

Bottlenecks in the past:

Lack of capital and of skilled operatives.

Depreciation policy:

The company applies both the straight-line and accelerated methods of depreciation.

Inventories policy:

On the average the stock of finished products amounts to 1% of the total value of production.

Investment factors of special machinery:

The available pipe manufacturing machinery can produce very thin-walled pipes applying both the butt and joint welding techniques.

Major Product:

Household refrigerators, water coolers and a variety of heating and cooling apparatuses.
Annual output amounted to US \$ 7.7 million on one-shift operation.

Reporting Unit:

A one-establishment enterprise, founded in 1954; privately owned; no foreign capital participation; construction of the factory started in 1954 and commercial production in 1955; the first profits were made in 1955 when the total output amounted to US \$ 2 million. Possibility of further specialisation. No exports.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value US\$ 1000	Deprecia- tion value US\$ 1000	Ave- rage age (Yrs.)
1 Primary process equipment (including installation cost)	2,204	..	..
TOTAL	2,204	..	..
- Process equipment *	9	..	..
- Hand tools & apparatuses	..	..	..
2 Buildings	828	..	..
TOTAL	828	..	..
- Primary industrial buildings (total floor space: 25,000 m ²)	..	..	..
- Auxiliary buildings (450 m ²)	476	..	..
- Warehouses (2,000 m ²)	26	..	..
- Office administration buildings (150 m ²)	..	..	..
- Housing (100 m ²)	..	..	..
3 Auxiliary facilities (excl. buildings)	24	..	..
TOTAL	24	..	..
- Internal power equipment	4	..	..
- Laboratory facilities	3	..	..
- Means of transportation	11	..	..
- Office equipment	6	..	..
TOTAL PHYSICAL FIXED ASSETS excluding land:	3,056	..	..
4 Other fixed capital assets	346	..	..
TOTAL	346	..	..
- Land (total acreage: 40,000 m ²)	58	71	..
- Land improvements	..	..	..
- Others	288	..	..

1/ Value included under "Auxiliary buildings".

*See Details of process equipment and auxiliary equipment in primary operative shops are given in Page three (Section IV).

II. INVENTORIES

(End of 1968)

	Actual value US\$ 1000	Number of months
Inventories	1,135	..
TOTAL	1,135	..
- Production materials	512	..
- Other input materials	..	..
- Work-in-process	185	..
- Finished products	378	..

(See XI. for liquid assets and desired working capital).

WORKING TIME PER OPERATIVE WORKER:

Wk days	Std hrs/dy	Std hrs/wk	Std hrs	Days off/wk
5	8	40	400	2
Average hours/yr	2,136	..	..	..
Normal days/yr	292	..	..	..

H. INDIVIDUAL GROSS WAGES AND SALARIES

Number of persons

(1968 monthly average)

	1000	1000	1000	1000	1000	1000
1. Local non-operatives						
- Managers (general+assistant)	approx.					
- Engineers	265	-				
- Technicians	130	-				
- Accountants	80	-				
- Sales officers	80	-				
- Clerks and typists	40	-				
2. Local operatives						
- Supervisors	132	-				
- Foremen	105	-				
- Skilled operatives						
- Machine operators	30	-				
- Craftsmen	30	-				
- Truck drivers	30	-				
- Unskilled operatives	40	-				
- Other full-time operatives	..	-				
- Part-time operatives	..	-				
3. Foreign employees						
- Managerial staff						
- Technical staff						
- Other skilled operatives						
- Unskilled operatives						

IV. MANUFACTURING TABLE

Number of persons

(1968 Beverage)

Total capacity: A. Supervisory staff and foremen (for all shifts)
B. Machine operators
(C) Other operatives
(D)

Total	A	B	C	D
712	92	620	..	..

ALL SHOPS & UNITS:**1 Primary operative shops**

All shops

635 15 40 580

V. INVENTORIES

(End of 1968)

	Actual value US\$ 1000	Number of months
Inventories	1,135	..
TOTAL	1,135	..
- Production materials	512	..
- Other input materials	..	..
- Work-in-process	185	..
- Finished products	378	..

2. Auxiliary operative units

- Repair & maintenance
- Mechanical shop
- Tooling shop
- Utilities control
- Product & material storage
- Off-site transport
- Guards, cleaners, etc.

3. Auxiliary non-operative units

- Production management
- Research & development
- Sales unit
- Accounting
- General administration
- Others

77 77

.. ..

.. ..

.. ..

.. ..

.. ..

V. ANNUAL PRODUCTION

(1968)	W. of Net prod.	Quantity produced Unit	Av. unit price in factory	Total output value US \$	1,000 US \$
Products by group of products					
Water heaters (25, 30, 40, 120 gallons)	pcn	17,772	74-173	1,234	
Heaters (large, medium, small)	pcn	4,081	14-63	556	
Central heating water tanks	pcn	4	30.5-42.0	12	
Radiator	sq	26,111	—	318	
Refrigerators (7, 9, 12 ft.)	pcn	16,120	27.5-31.3	4,573	
Cooking ranges (3, 4, 5 flames)	pcn	10,496	22-23.4	309	
Tables for stoves	pcn	448	16	7	
Water coolers	pcn	1,161	166	186	
Ice coolers	pcn	180	284	50	
Others	..	..	..	572	

TOTAL VALUE OF PRODUCTION: 7,111

VI. VALUE ADDED

(1968)	Total value US \$
1. Annual wages & salaries	7,111
- Wages	7,111
- Non-salaried workers	—
- Wages	—
2. Other payments for employees	—
3. Annual depreciation	—
- Machinery & equipment	—
- Buildings & other fixed assets	—
- Non-patented capital assets	—
4. Rentals paid	—
5. Interest & royalties	—
6. Sales tax	—
7. Other indirect business taxes	—
8. (+) Subsidies	—
9. Corporate income before tax	7,111

TOTAL VALUE ADDED: 7,111

DESCRIPTION OF MAJOR PRODUCTS

The quality of all the products meets international standards.

MARKET ASPECTS:

Consumers of products:

Private households and enterprises.

Sale organization:

Products are sold through sales representatives.

Extent of the market:

The market is located all over the country.

Share in the domestic market:

Approx. 12% of the domestic market.

Prospects of exports:

Good prospects, but export prices ought to be lower than the domestic prices.

Competition with imported products:

No products of the same type are imported.

Acquisition of production materials:

The delivery of imported materials and parts takes some 6 months on the average; that of domestically supplied goods only 15 days.

EXPORT

Total annual export: None.

Major products	To Western countries	To Eastern countries	To Developing countries
—	—	—	—

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed Unit	% import	Average unit value	Total consumption value US \$	1,000 US \$
1. Energy and water				• 74	
TOTAL	—	—	—	—	—
- Electricity	600 kWh	..	—	34	
- Solid-solid fuels	..	..	—	3	
- Liquid fuels	600 l	118	—	4	
- Gas	600 m ³	1,160	—	18	
- Water	600 m ³	43 *	—	—	
* Internally supplied and not counted in the total				• 74	
2. Production materials				3,997	
TOTAL (Supplier)	—	—	—	1,018	
- Sheet (Japan, GB, Fed.R. of Germany)	4,175	100	..	—	
- Iron bars, pipes and profiles kg 208,940	100	..	59	—	
- Paints (Netherlands) kg 61,431	50	..	113	—	
- Carburetors (USA, Netherlands) pcn 15,861	100	..	193	—	
- Refrig. compressor (USA) pcn 7,345	100	..	479	—	
- Refrig. equipment	30	..	269	—	
- Cooking range equipment	50	..	182	—	
- Cooler equipment	60	..	275	—	
- W.C. Water pcn 6,126	100	..	91	—	
- Heater equipment	50	..	54	—	
- Other equipment .. ..	..	..	644	—	

3. Other materials & supplies

7074C	151
- Packaging material (Cardboard boxes)	18
- Parts, supplies & services	—
- Other materials & supplies	132

4. Business services purchased

7074C	187
- Transportation, storage & insurance	60
- Communication, advertising & other business services	27
—	—

5. Work performed by subcontractors

7074C	11
—	—

TOTAL VALUE OF CONSUMPTION: 4,429

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (N.1)

Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Ave. age per unit	Remarks	Further details
--------	---	---	----------------------------	---------	-----------------

Galvanizing machines are of special type.

An training programme for operatives working on these machines.

CAPACITY POWER:

Process equipment:

electric motors = kW

Generating equipment:

installed capacity = kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization: A most advanced B considerably high standard C medium standard D approximately that of India's standard E almost unskilled	Stationary	Automated: I fully automated II semi-automated	III non-automated
Cutting shop		B	II		
Welding shop		A	II		
Painting shop		B	II		
Assembling shop		B	II		

CAPACITY UTILIZATION:

Full capacity output = Approximately 15.8 million units.

Current utilization:

Major products for processing	Up to 20	20-50	50-60	60-80	80-90	90-100	100	Approximate %

The actual over-all capacity utilization is rated

to be about 30% due to lack of demand.

For a maximum capacity utilization, another 336 operatives

and 55 non-operatives could be employed.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output 1960 US \$	No. of operative employed	Total exports 1960 US \$
1963	-	-	-
1964	1,890	278	-
1965	4,240	462	-
1966	4,110	476	-
1967	5,280	683	-
1968	7,710	712	-

2. Investments in the past:

From 1963 to 1964:	Approximate current output 1960 US \$	Type of investment
2,640		Purchase of land and equipment, construction of building.

3. Future Plan:

From 1969 to 1974:	726	New additions to production facilities, technological improvement of process equipment.
		Another 150 primary operatives and 1 auxiliary operative as well as 50 persons for management and administration will be employed then.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

* Data of selected 10 establishments representing only part of ISIC 360.

(1967) Manufacture of machinery except electrical

Industry 36011001

(ISIC Code 360-1)

1. Size groups by number of persons employed	No. of estab.	No. of units	Ave. W.e.e. per estab. 1960	Ave. gross prod.vol/ per estab. 1960	Ave. value added/vol prod.vol 1960	Fixed capital per estab. (1960 US \$)
up to 50	2	..	3,114	32,517	25	32
50 - 200	4	..	84,230	241,452	79	500
over 200	4	..	163,411	2,115,632	24	3,593
TOTAL:	10		333,319	1,485,037	29	1,643

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services	1. Consulting and advisory services	2. Technical services	3. Equipment supply and installation services
1. Consulting and advisory services	Engineering services	Technical services	Equipment supply
2. Technical services	Technical services	Technical services	Technical services
3. Equipment supply and installation services	Technical services	Technical services	Technical services

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES

1. Services performed during the past five years:

200. SUPPORTING & ENDING

Contract work:

~~US \$ 10,560 were paid to a subcontractor for commission work based on short-term agreements.~~

Governmental policies:

Governmental policies can be considered as favourable.

Depreciation policy:

The following depreciation rates were applied: Machinery 10%, buildings 10%, office equipment 4%, laboratory furniture 4%.

Labour training:

On-job training is currently in operation. Operators are also trained for specialized work.

<u>Liquid assets:</u>	Value in US \$	Desired working capital:	Value in 1950 US \$	Equivalent no. of months
- Cash on hand and in bank	13	- Production materials	129	12
- Marketable securities and bonds	-	- Other materials and supplies	126	12
- Accounts receivable from delivery of goods and services	184	- Finished products	125	12
- Other accounts receivable	123	- Wages for primary operative workers	118	12
- Prepaid expenses	41	- Other wages and salaries	109	12
Total average liquid assets	1,161	- Training costs	-	-
		- Administrative costs, sales costs and contingencies	104	12
		- Other special items	-	-
		Total desired working capital	1,166	12

www.TECHNICAL-CRITICAL-CHARACTERISTICS

CHARACTERISTICS OF THE WORKFORCE IN THE COMPANY

* Data of selected 10 establishments representing only part of 181C (10).

Industry		Manufacture of machinery except electrical machinery			(HSIC Code 36 - *)	
		No. of establish- ments	No. of employees	Av. no. of emp. per establish.	Av. value of fixed capital per establish.	Fixes capital per establis- hment (\$1000 U.S. \$)
1. One group by number of persons employed up to	50	2	20	10	32,532	26
50 - 200	4	44	61	14,302	79	800
over 200	4	44	131	14,322	24	3,593
				333,312	48	1,643
				1,486,311		

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services

Engineering, building	Technical assistance	Management expertise
Training assistance	Consulting	Marketing
Industrial services	Industrial training	Other management
Equipment supply	Technical consultancy	Advice
Installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

XII. SUPPLEMENTS & NOTES

Contract work:

US \$ 10,560 were paid to a subcontractor for commission work based on short-term agreements.

Governmental policies:

Governmental policies can be considered as favourable.

Depreciation policy:

The following depreciation rates were applied: Machinery 10%, buildings 5%, office equipment 5%, laboratory equipment 5%.

Labour training:

In-job training is currently in operation. Operatives are also trained for specialised work.

Liquid assets:	Value in IS \$	Desired working capital:	Value in IS \$	Equivalent no. of months
- Cash on hand and in bank	-	- Production materials	-	1/2
- Marketable securities and bonds	-	- Other materials and supplies	-	1/2
- Accounts receivable from delivery of goods and services	154	- Finished products	176	1/2
- Other accounts receivable	123	- Wages for primary operative workers	100	1/2
- Prepaid expenses	41	- Other wages and salaries	100	1/2
Total average liquid assets	1,168	- Training costs	-	1/2
		- Administrative costs, sales costs and contingencies	101	1/2
		- Other special items	7	1/2
		Total desired working capital	1,486	1/2

Major Products: Refrigerators, coolers, heaters, etc.
Capable of producing about 32,000 sets of refrigerators, 40,000 sets of coolers, 80,000 sets of heaters, 9,000 sets of water heaters and other products based on one-shift operation. Full-capacity output amounts to US \$ 15 million.

Reporting Unit: A one-establishment enterprise, privately owned; founded in 1937. No foreign capital participation. Trial and commercial production were first started in the year of foundation. The break-even point was surpassed for the first time at an output level of US \$ 51,000. Total annual exports amount to approximately US \$ 460,000. There is no possibility of merging.

I. FIXED CAPITAL ASSETS

	(End of 1968)	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave- age (Yrs.)
1 Primary process equipment (including installation cost)	2,112	..	..	7
TOTAL	2,112	..	..	10
- Process equipment *	2,112	..	..	4
- Hand tools & apparatuses	..	..	..	..
2 Buildings	3,160	..	..	12
TOTAL	3,160	..	..	10
- Primary industrial buildings (Total floor space: 11,000 m ²)	3,160	..	..	10
- Auxiliary buildings	..	..	..	..
- Warehouses	..	..	..	10
- Office administration buildings	..	..	..	20
Housing	..	..	..	..
3 Auxiliary facilities (excl. buildings)	141	..	..	4
TOTAL	141	..	..	4
- Internal power equipment	10	..	..	..
- Laboratory facilities	40	..	..	4
- Means of transportation	10	..	..	4
- Office equipment	10	..	..	4
TOTAL PHYSICAL FIXED ASSETS (excluding land)	6,421	..	..	..
4. Other fixed capital assets	433	..	..	..
TOTAL	433	..	..	..
- Land (total acreage: 11,000 m ²)	167	..	..	..
- Land improvements	..	..	..	..
- Others	264	..	..	..

*NB: Details of process equipment and capacity of primary operative shops are given on Page Three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

	US\$	US\$	US\$	US\$	US\$	US\$
1. Local non-operatives						
- Managers 1/	460	-	660			
- Engineers	330	-	530			
- Technicians 2/	265	-	460			
- Accountants	130	-	230,200-330,265-395			
- Sales officers	140	-	240			
- Clerks and typists	85	-	145, 65 - 110			
2. Local operatives						
- Supervisors	-	-	-			
- Foremen	160	-	330			
- Skilled operatives	-	-	-			
- Machine operators	100	-	180			
- Craftsmen	160	-	290			
- Truck drivers	120	-	165			
- Unskilled operatives	32	-	48			
- Other full-time operatives	80	-	130			
- Part-time operatives	-	-	-			
3. Foreign employees						
- Managerial staff	-	-	-			
- Technical staff 3/	660	per person	-			
- Other skilled operatives	-	-	-			
- Unskilled operatives	-	-	-			
1/ General and 10 assistant managers						
2/ or assistant engineers						
3/ Engineers, trainers and other technical staff						

IV. MANNING TABLE

(Number of persons)

Skill categories: A) Supervisory staff and foremen (for all shifts)

B) Machine operators

C) Others

D) Total

	Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
ALL SHOPS & UNITS:	2,011	413	..	1,598	..	-	-	-
1 Primary operative shops	1,361	50	711	600	..	-	-	-
All shops	1,361	50	711	600	..	-	-	-

III. INVENTORIES

(End of 1968)

	Actual value (1000 US \$)	Number of months
Inventories	12,976	..
TOTAL	12,976	..
- Production materials	6,316	..
- Other input materials	370	..
- Work-in-process	792	..
- Finished products	5,478	..

(See XII, for desired working capital and liquid assets)

WORKING TIME PER OPERATIVE WORKER:

1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	-	hours
Average hours/yr:	2,120	-	hours
Normal days/year:	290	-	days

	350	350	-	-	-
2 Auxiliary operative units	300	13	287	-	-
- Repair & maintenance	45	5	40	-	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	-	-	-	-	-
- Utilities control	33	3	30	-	-
- Product & material storage	35	5	30	-	-
- Off-sites transport	-	-	-	-	-
- Guards, cleaners, sto.	60	-	60	-	-
- Other units	127	-	127	-	-
3 Auxiliary non-operative units	350	350	-	-	-
- Production management	10	10	-	-	-
- Research & development	7	7	-	-	-
- Sales unit	35	35	-	-	-
- Accounting and data processing	50	50	-	-	-
- General administration	100	100	-	-	-
- Other departments	148	148	-	-	-

Major Products:

Cans, cans with press-on-lids and other disposable containers.

Capable of producing annually 2,000 t of cans, 490 t of cans with press-on-lids and 20 t of lacq containers based on 2-shift operation. Full-capacity output amounts to US \$ 1.5 million.

Reporting Unit:

A branch of a centrally organized 4-establishment enterprise; privately owned joint stock company. Originally founded in 1890; this branch started production in 1935; 165 employees. Largest can manufacturer in the country. Advantageous location; no exports; own research activities. The machinery and equipment utilised is of modern standard.

Business year: 1 July 1966 - 30 June 1967.

I. FIXED CAPITAL ASSETS

(End of June 1967)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave age (Yrs.)
1 Primary process equipment (including installation cost)			
TOTAL	568	2,636	-
- Process equipment	566	2,632	-
- Hand tools & apparatus	2	4	1-35
2 Buildings	363	774	-
- Primary industrial buildings	251	426	3
- Total floor space: 5,326 m ²			
- Auxiliary buildings	75	271	45
- Warehouses	2	-	-
- Office/administration buildings	2	-	-
- Housing	34	77	30
3 Auxiliary facilities (excl. buildings)	15	13	-
TOTAL	966	3,503	-
Internal power equipment	3	27	60
Laboratory equipment	-	-	-
Means of transportation	29	56	4
Office equipment	3	4	7
TOTAL PHYSICAL FIXED ASSETS (excluding land)	966	3,503	-
4 Other fixed capital assets	3	67	-
TOTAL	3	67	-
- Land (total acreage: 25,142 m ²)	2	43	-
- Land improvements (total: 1,433 m ²)	1	14	-
- Others	2	-	-

II. MONTHLY GROSS WAGES AND SALARIES

(Number of personnel)

(1966/67 monthly average)

	up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 360 US\$	over 360 US\$
1. Local non operatives						
- Managers	-	-	-	-	-	1
- Engineers	-	-	-	1	-	-
- Technicians	-	-	-	-	-	-
- Accountants	-	-	2	2	-	-
- Sales officers	-	-	-	-	-	-
- Clerks and typists	-	3	1	2	2	-
2. Local operatives						
- Supervisors	-	-	-	-	-	-
- Foremen	-	-	-	3	9	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators	-	24	-	10	-	-
- Craftsmen	-	-	-	-	1	-
- Truck drivers	-	-	-	-	4	-
- Unskilled operatives	-	86	-	-	-	-
- Other full-time operatives	-	-	1	5	3	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Management staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

EXTERNAL CONDITIONS

*NR: Details of services not available or information not available. See notes to Part Three, Section III.

EXTERNAL CONDITIONS

Transport	external long distance	fair
	internal long distance	fair
	local and city	fair
Utilities	electricity	excellent
	water	excellent
	gas	excellent
Community	residence	excellent
	health and recreation	fair
	education	fair
Own Welfare Facilities	-	-

IV. MANNING TABLE

(Number of personnel)

	Total	A	B	C	D	2nd Shift	3rd Shift
ALL SHOPS & UNITS:							
1 Primary operative shops	130	6	4	30	35	55	-
Production of cans	130	6	4	30	35	55	-
Production of cans with press-on-lids							
Production of lacq containers							

III. INVENTORIES

(End of June 1967)

	Actual value (1000 US \$)	Number of months
Inventories		
TOTAL	351	-
- Production materials	173	2.5
- Other input materials	43	10
- Work-in-process	89	3
- Finished products	46	0.5

WORKING TIME PER OPERATIVE WORKER

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	8	-	hours
Actual hours/year	1,710	1,710	-	days
Actual days/year	225	228	-	days

2 Auxiliary operative units

	27	2	21	4	-
- Repair & maintenance	12	1	10	1	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	-	-	-	-	-
- Utilities control	1	1	-	-	-
- Product & material storage (*)	3	-	3	-	-
- Off-site transport	2	-	1	1	-
- Guards, cleaners, etc.	4	-	2	2	-
- Others	5	-	5	-	-
(*) incl. shipping dept.					

3 Auxiliary non-operative units

	8	8	-	-	-
- Production management	1	1	-	-	-
- Research & development	-	-	-	-	-
- Sales unit	3	3	-	-	-
- Accounting	3	3	-	-	-
- General administration	1	1	-	-	-

V. ANNUAL PRODUCTION

(1968)	Vr. of first prod.	Quantity produced Unit	Avg unit price ex factory (US \$)	Total output value 1000 US \$
- Refrigerators	1963	27,374	145-172	4,330
- Coolers (water)	1961	36,129	102-106	3,714
- Heaters	1940	63,089	33	2,089
- Water heaters	1961	7,283	86-98	640
- Tables and chairs (simple types for kitchens)	1948	25,800	3-4	11
- Heater trays	1940	2,751	3.2	31
- Cooler strainers	1968	7,253	2.6	19
- Plastic tapes	1966	833	7.2	6

* Excluding sales tax.

TOTAL VALUE OF PRODUCTION: 10,367

VI. VALUE ADDED

(1968)	Total value 1000 US \$
1. Annual wages & salaries	1,914
- Operative workers	1,132
1,661 personnel	1,132
- Non-operative workers	682
1,350 personnel	682
2. Other payments for employees	317
3. Annual depreciation	594
- Machinery & equipment	494
Buildings & other facilities	146
Non-financial capital assets	348
4. Rents paid	66
5. Interest & royalties	48
6. Sales tax	1
7. Other indirect business taxes	1
8. (-) Subsidies	1
9. Corporate income before tax	3,254

TOTAL VALUE ADDED: 6,371

DESCRIPTION OF MAJOR PRODUCTS:

Major production materials for refrigerators, coolers, heaters and water heaters are imported:

Compressors from Italy

Electric motors from USA

Electric pumps from Italy

Iron sheets from Fed.Rep.of Germany, Japan and USA.

MARKET ASPECTS:

Consumers of products:

95% households; 5% business offices and hospitals.

Sales organization:

Products are sold through wholesale agents.

Share in the domestic market:

65% of the domestic market; no particular regional concentration.

Competition with imported products:

There is no import of similar products.

Import of production materials:

Some are subject to high customs duties.

EXPORT:

Total annual export: 10,348,800

Major product	To Western countries	To Eastern countries	To Developing countries
Refrigerators	-	-	100%
Coolers	-	-	100%
Heaters	-	-	100%

Export price policy:

Reimbursement of custom duties for imported raw materials enables the establishment to reduce export prices to US \$ 110 for refrigerators, US \$ 116 for coolers, and US \$ 24 for heaters.

In the year of reference exports increased by 5%.
In the future an increase of 4% is expected.

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed Unit	% import	Avg import value (\$)	Total consumption value 1000 US \$
1. Energy and water				191
TOTAL:				
- Electricity	000 kWh	6,200	-	123
- Solid fuels	..	..	-	2
- Liquid fuels	000 l	2,000	-	66
- Water	000 m ³	400,000 *	-	..
* Internally supplied and not counted in the total.				
2. Production materials 1/ and 2/ see XII. Supplements.				1,342
TOTAL:				
- Iron sheets	t	5,000 1/	87	40
- Galvanised iron	t	75 1/	91	45
- Electric motors for coolers	pcm	33,500	100	20
- Compressors	pcm	21,000	100	104
- Heater and water carburetors	pcm	57,500	100	50
- Paints	gallons	25,000 1/	50	60
- Galvanised and ordinary pipes	t	350	100	73
- Screws and nuts	pos	10 mill.	100	53
- Plastic refuse A.B.S. and H.I.P.	t	550	100	282
- Waterproofing materials	t	250	100	33
- Aluminium profiles	t	20 1/	50	53
- Freon gas	t	65 1/	93	55
- Other production materials 2/-	-	-	-	452

	Total consumption value 1000 US \$
3. Other materials & supplies	626
TOTAL:	
- Packaging material (cardboard boxes, etc.)	166
- Parts, supplies & services	152
- Other materials & supplies	33
4. Business services purchased	224
TOTAL:	
- Transportation, storage & insurance	132
- Communication, advertising & other business services	92
5. Work performed by subcontractors	-
TOTAL:	

TOTAL VALUE OF CONSUMPTION: 14,179

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (8.1.)

Number	Original Purchase Value (\$000 US \$)	Replaced value (\$000 US \$)	Ave. age (yrs)	Remarks	Further details
--------	--	---------------------------------	----------------	---------	-----------------

Vacuum forming machines and electro-painting machines are included in the machine park.

Total number of machinery amounts to 300.

Example:

A1: Purchased second-hand

C1: Other

B: Second

D: Self-constructed

E: Imported

F: Domestic

CAPACITY POWER:

Process equipment:

- electric motors : 500 sets ranging from 37 kWh to 0,20 kWh

Generating equipment:

The enterprise makes no use of generators because of the adequate supply from a municipal power source.

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shop	Kind of process involved	Automation:		Automation:	Further details:
		A: most advanced	C: medium standard		
Cutting shop	..	B	II		
Welding shop	..	B	II		
Painting shop	..	B	II		
Assembling shop	..	C	II		

CAPACITY UTILIZATION:

Full capacity output: US \$ 15 million.

Current utilization:

Major products (or processes)	Approximate %							
	up to 20	20-30	30-40	40-50	50-60	60-70	70-80	80-100
Refrigerators	94							
Coolers		90						
Heaters		78						
Water heaters		81						
Tables and chairs		81						

The actual over-all capacity utilization rate is considered as being

about 86%, due to weak demand for the products. In the future an increase in demand is expected.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output (\$000 US \$)	No. of persons employed	Total exports (\$000 US \$)
1963
1964
1965	..	1,020	..
1966	..	1,320	320
1967	..	1,610	..
1968	10,960	2,011	460

2. Investments in the past:

Approximate amount (\$000 US \$)	Type of investment
In 1965: 2,640	For construction of building
" 1966: 530	For new machinery

3. Future Plan:

From 1968 to 1970: 1,320 Replacement investment for new additions and technological improvement covering both the primary and the auxiliary facilities. Also technological improvement of product-mix. These investments will be accompanied by an addition of 40 primary operatives for the 1st shift.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

* Data of selected 10 establishments represent only part of ISIC-code 360.

(1967) Manufacture of machinery except electrical machinery

(ISIC Code: 360 *)

Industry	No. of estab.	No. of emp.	Ave. W. &. S. per estab. (\$000)	Ave. gross prod. val/ per estab. (\$000)	Ave. value additions/ prod. ratio (%)	Fixed capital per estab. (\$000 US \$)
1. Size groups by number of persons employed up to 50	2	..	8,314	32,017	25	32
51 - 200	4	..	85,232	940,952	79	500
over 200	4	..	753,911	2,755,632	24	3,593
TOTAL:	10	..	313,319	1,485,037	29	1,643

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services:

- | | | |
|-------------------------|--------------------------------------|-------------------------------|
| 1. Engineering studies | 2. Technical and management services | 3. Import and export |
| 2. Financial assistance | 4. Personnel | 5. Consultation |
| 3. Industrial services | 5. Industrial training | 6. Administration and storage |
| 4. Equipment supply | 6. Technical consultancy | 7. Labour |
| | 7. Installation & maintenance | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

XII. SUPPLEMENTS & NOTES

Ad VII. Annual consumption1) Internal supply of production materials not included in total consumption value:

700 tons of iron sheets
 300 tons of galvanized iron
 25,000 gallons of paints
 20 tons of aluminium profiles
 5 tons of freon gas
 50 tons of special wire (included in other production materials).

2) Detail of other production materials:

	Quantity consumed Unit	% import	Average import duties -	Total consumption value (000 US \$)
Special wire	t 500	90	25	141
Condenser pipes	m 61,000	100	20	69
Evaporators	No. 35,000	100	4%	12
Punched sheets	No. 250	100	25	12
Total				457

Average liquid assets:

	(000 US \$)
Cash on hand and in bank	792
Marketable securities and bonds	7,920
Accounts receivable from delivery of goods and services	3,960
Other accounts receivable	660
Prepaid expenses	26
Total	13,358

	Desired working capital:	(000 US \$)	Equivalent no. of months
Production materials	1,198	1	
Other materials and supplies	66	1	
Finished products	5,198	1	
Wages for primary operative workers	12	1	
Other wages and salaries	79	1	
Training costs	26	12	
Administrative and sales costs, contingencies	1,120	12	
Total	12,738		

Depreciation policy:

Under the income tax laws, the following depreciation rates were applied: Machinery 10%, buildings 10%, laboratory facilities 25%, office equipment 20%.

Labour training:

Own training courses and on-job training programme available within the enterprise; technical staff members are sent to Industrial Management Institutes abroad. Total annual expenses for training amount to US \$ 26,400 per annum.

Major Products:

Cranes and stamping presses. The annual production capacity is 50 units of cranes and 100 presses on one shift operation (machinery of parts with two shifts).

Reporting Unit:

A one-factory, private enterprise; established in 1959. No participation of foreign capital.

I. FIXED CAPITAL ASSETS

	Year of installation	Orig. purchase value 1966 US \$1	Replacement value 1966 US \$1
(End of 1967)			
1 Primary process equipment			
TOTAL		125.0	130.4
- Process equipment	1966	125.3	130.7
- Hand tools & apparatus	1966-67	1.3	1.3
- Fleet of installations		1.0	1.0
2 Primary industrial building		125.0	125.0
TOTAL		125.0	125.0
(total floor space: 1,200 m ²)		125.0	125.0
3 Auxiliary facilities		125.0	125.0
TOTAL		125.0	125.0
- Water, steam, electricity, cooling & storing	1966	12.0	10.0
- Transportation facilities (total load: 1 ton)	1966	1.0	1.0
- Administrative facilities	1966	1.0	1.0
- Laboratory facilities		1.0	1.0
TOTAL PHYSICAL FIXED CAPITAL ASSETS		360.0	360.0
(including land:			
4. Other fixed capital assets		360.0	360.0
TOTAL		360.0	360.0
- Land (total acreage: 1,200 m ²)		96.0	100.0

DETAIL OF PROCESS EQUIPMENT (no.)	Supplier country	Year of installation	Orig. purchase value 1966 US \$1	Replacement value 1966 US \$1
Cranes				
Lathes				
Drills				
Milling machines	Autogerm, USA	1960		
Welding machines	Autogerm, USA	1960	100.0	100.0
Boring machines	Mexico	1967		
Polishing machines				
Grinding machines etc.				

* Capital value represents the investment made in 1967.

HISTORY OF INVESTMENT:

The factory was constructed in 1964. Total production started in 1966 and commercial production in 1967.

The firm made its first profits in 1967, when 50% of capacity was utilized.

In 1966/67 U.S. \$ 1,000,000 were invested for an expansion of the production of mobile and special cranes.

CAPACITY POWER:
Process equipment:
Electric motors: 125 kW

Generating equipment:
Installed capacity: 500 kVA

EXTERNAL CONDITIONS:
Transport: Long distance and local area, excellent.

Utilities: Electricity, water and gas, excellent.

Community: Residential, health and recreational, educational, excellent.

II. INVENTORIES AND WORKING CAPITAL

in 1966 US \$

(End of 1967)

1 Inventories	Actual value 1967	2 Liquid assets	Actual value
TOTAL	125.0	TOTAL	236.4
- Production materials	125.0	- Cash (hand/bank)	11.8
- Other input materials	0.0	- Market, sec. & bonds	0.0
- Work-in-process	0.0	- Short-term investment	67.9
- Finished products	0.0	- Prepaid expenses	1.8
		- Accounts receivable	156.7

3. Desired working capital

	Number of months	Value
TOTAL	12	1,208.0
- Production materials	12	400.0
- Other input materials	12	16.0
- Finished products	12	40.0
- Wages & salaries	12	336.0
- Other special items	12	416.0

III. MANUFACTURING TABLE

(1967 average)	number of persons		A = operative workers B = non-operative workers	
	Total	A	B	A+B
ALL SHOPS & UNITS:	90	72	18	90
1. Primary operative shops *	90	72	18	90
Cranes manufacture	31	5	26	31
Stamping presses manufacture	25	8	9	25

(* Includes two engineers/technicians who are classified as non-operative in terms of salary scale.)

2. Auxiliary operative units

- Repair and maintenance	1	1	-
- Mechanical shop	-	-	-
- Utilities control	-	-	-
- Product & material storage	4	3	1
- Off-site transport	1	1	-
- Guards, cleaners, etc.	-	-	-

3. Auxiliary non-operative units

- Production management	15	13	2
- Research & development	1	1	-
- Sales unit	2	2	-
- General administration	10	10	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours per shift 1 8.5 hours Normal days per week 251 days
Actual hours per week 2,259 2,133.5 hours

CAPACITY OF OPERATIVE SHOPS:

The machining of parts is done on two shifts. The welding and assembly shops work on one shift only. All the shops are moderately automated.

THE ANIMALS OF AFRICA

Product or group of products	No. of final pieces	Quantity produced		Number of output units	Value in factory gate Rs. Cr.	Production cost Rs. Cr.
		Units	Output			
- Movable cranes	1,664	pieces	39	30	20,492	14,411
- Stamping presses	1,961	4	75	100	1,240	1,121
* One-shift operation					TOTAL VALUE OF PRODUCTION:	21,732

COMPETING IMPORTS

The c.i.f. prices of imported movable charges without tariff amounts to U.S. \$16,640 per unit on imports 1% duty is charged. The c.i.f. price of stamped pieces without tariff amounts to U.S. \$960 per unit on imports 2% duty is charged.

REPORTS: Nose

CAPACITY UTILIZATION

Only one-shift operation. Under-utilization mainly due to the shortage of demand. Additional 85 working hours per day would be needed on the 1st shift, 255 hours per day on the 2nd shift and 340 hours per day on the 3rd shift, for full utilization of the present capacity.

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(1967)	Units	Production	Imports	Total Inv.	Value Inv. vs. Inv.
1. Energy and water					
TOTAL					8.6
- Electricity	000 kWh	188.8	-	-	8.6
- Liquid fuels and lubricants:					
Oxygen	000 l	1,379	-	-	1.8
Acetylene	000 l	500	-	-	1.4
Hydrogen	000 l	5	-	-	0.3
2 Production materials					
TOTAL					30.6
- Pulley blocks and electric parts	pieces	70	36	20%	108.5
- Iron and steel	ton	193	ad val	127.2	

WILL SMART TECHNOLOGY BE THE KEY TO THE GREENHOUSE?

Industry group		Industrial machinery			HSIC 360	
1. One group by number of employees						
up to 15		1,723	1,586	640	2,958	76
16 - 25		112	2,227	1,111	4,252	48
26 - 500		202	18,081	1,549	6,775	10P
over 500		6	5,432	1,258	5,030	14M
	total	2,043	23,286	1,267	5,374	102
2. One group by number of employees						
up to 2		1,471	2,319	72	614	62
3 - 8		1,085	3,179	335	1,407	61
9 - 40		545	4,037	691	2,346	91
40 - 400		294	9,949	1,057	3,832	36
over 400		79	15,839	1,745	8,064	116
	total	4,112	59,342	3,103	21,227	105

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W. VALLEY AND CO.

(196)	Value 1000 US \$
1 Wages & salaries	
- Employees in direct production	111
(persons)	
- Other employees	177
(persons)	
2 Other payments for employees	11
3 Annual dividend	See IX
4 Rentals paid	11
5 Interest & royalties	4,1
6 Sales tax, not included in 8	1
7 Other and bus taxes	1
8 () Subsidies	1
9 Corporate income before tax	11

WILSON LIBRARY OF ECONOMIC DATA

(End of 1967)		1967	
		1967	1966
1 Local non-operatives			
TOTAL		115	113
- Managers		1	1
- Engineers		1	1
- Technicians		1	1
- Accountants		1	1
- Sales officers		1	1
- Other professional staff		1	1
- Clerks & typists		6	40
		CONFIDENTIAL	CONFIDENTIAL
2 Local operatives			
TOTAL		103	103
- Supervisors		1	1
- Foremen		1	1
- Machine operators		13	160
- Craftsmen		13	160
- Truck drivers		1	1
- Other full-time operatives		1	1
- Unskilled & part-time operatives		6	9
		CONFIDENTIAL	CONFIDENTIAL
3 Foreign employees			
TOTAL		14	14
- Managerial staff		1	1
- Engineers, technicians and other tech. control staff		1	1
- Foremen and other skilled op.		2	2
- Other unskilled op.		1	1
		CONFIDENTIAL	CONFIDENTIAL

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007 - FEDERAL POLICIES

It is desired to restrict competitive imports. The country imports a considerable number of presses similar to those produced by this firm, under certain IAPMA agreements. Also an effective policy to promote exports is desired. There is no special problem concerning the availability of production materials.

ENTRIES PLAT

Within a period of 2 years, approximately U.S. \$400,000 will be invested for removal of the factory; additional 15 persons would be needed on the 1st shift, 7 persons on the 2nd shift and 10 persons on the 3rd shift.

Resuscitation allowances

- | | |
|----------------------------------|-------------|
| - Machinery and equipment | US \$ 15,90 |
| - Buildings and other facilities | " " 14,44 |
| - Non-physical capital | " " 340 |

Major Products: Tractors, seeders, cultivators, harrows and other agricultural implements. Annual production capacity of (manufactured) tractors is 2,500 to 3,000 units; implements approx. 12,000 + in various types. One-shift operation.

Reporting Unit: A one-establishment enterprise; founded in 1957. Privately owned with 4% foreign capital participation. The data relate to the business year from July 1966 to June 1967.

I. FIXED CAPITAL ASSETS		Year of inception	Orig. purchase value 1960 US \$	Replacement value 1960 US \$
(End of June 1967)				
1. Primary process equipment				
TOTAL			4,316	..
- Process equipment			3,895	..
- Hand tools & apparatuses			421	..
- Cost of installation				
2. Primary industrial building	1967		1,075	..
TOTAL			1,075	..
(total floor space: 21,442 m ²)			1,075	..
3. Auxiliary facilities			1,151	..
TOTAL			1,151	..
- Meter, steam, electricity, cooling & storing (incl. in 1.2)	1967		801	
- Transportation facilities	1957/58		21	
- Administrative facilities	1966		283	..
- Laboratory facilities			7	
- Others (Guards facilities, etc.)			46	
TOTAL PHYSICAL FIXED CAPITAL ASSETS			6,542	..
Including land:				
4. Other fixed capital assets			553	..
TOTAL			553	..
- Land (total acreage: 87,040 m ²)			355	..
- Others			198	..
DETAIL OF PROCESS EQUIPMENT (no.):				
	Supplier country	Year of inception	Orig. purchase value 1960 US \$	Replacement value 1960 US \$
- Lathes	21	FR. Germ. USA, UK	1964/65	181
- Drilling machines	26	FR. Germ.	1956, 1963	272
- Milling machines	12	USA, UK	1956/64	244
		Sweden,	1965	
- Punching machines	5	USA	1965	149
- Brushes	2	USA	1957	25
- Thread making machines	2	USA, UK	1956/65	10
- Reamers	2	USA	1957/64	15
- Saws	5	USA	1956/65	10
			1967	
- Grinders	28	FR. Germ.	1956-1967	147
		Mexico		
- Shears	3	USA	1957/65/	50
			1966	
- Presses	16	USA	various	107
- Bending machines	3	USA	1956/65	4
- Welding machines	7	USA	various	22
		Mexico		
- Cleaning equipment	6	USA	1965	67
- Furnaces	9	USA	1954-59	37
			1965/66	
- Generators	2	USA	1957/65	8
- Equipment for tempering	1	USA	1965	60
- Tools and dies				1,288
- Handling material equipment				43
- Others	..	..	..	1,057

HISTORY OF INVESTMENT:

Construction of the factory started in 1956, trial production in 1957 and commercial production in 1958. Profits accrued in the same year for the first time. The following amounts were invested for expansion purposes: (in 000 US \$)

1959/1964	approx.	227	implements and assembly line
"		2,108	Manufacturing of tractors
1965	"	2,736	"
1966	"	313	Miscellaneous

CAPACITY POWER:	Generating equipment: Included capacity	- kVA
Process equipment: Electric motors	1,641.7 kW	
- Electric furnaces	149.1 "	- Other furnaces 3.2 kW

EXTERNAL CONDITIONS:
Transport: Long distance, local area, excellent.

Utilities: Electricity, water, gas, all excellent.

Community: Residential, excellent; health and recreational, educational, fair.

II. INVENTORIES AND WORKING CAPITAL

(in 000 US \$)

(End of June 1967)

1. Inventories	Average value
TOTAL	10,783

2. Liquid assets	Average value
TOTAL	7,375

3. Desired working capital

Number of months

Value

TOTAL

- Production materials	4	2,200
- Other input materials	3	40
- Work-in-process	2	1,840
- Finished products	4	957
- Wages & salaries	3	138
- Other special items	3	

IV. WORKING TABLE

Number of persons

(1966/7 average)

	Total	No. men	No. women	Average number of workers per operative
ALL SHOPS & UNITS:	654	301	273	31

1. Primary operative shops

No. of workers

No. men

No. women

No. of workers per operative

- Material cutting	8	7	1	-
- Machining	93	84	9	-
- Welding and forging	74	68	6	-
- Assembling and painting	82	77	5	-
- Glass fibre	15	11	1	-
- Inspection	29	20	9	-

2. Auxiliary operative units

No. of workers

No. men

No. women

No. of workers per operative

- Repair and maintenance	39	30	9	-
- Mechanical shop	35	25	10	-
- Utilities control	4	3	1	-
- Product & material storage	45	30	15	-
- Off-site transport	4	3	-	-
- Guards, cleaners, etc.	1	3	2	2
- Others	9	9	-	-

3. Auxiliary non-operative units

No. of workers

No. men

No. women

No. of workers per operative

- Production management	5	2	3	-
- Research & development	85	84	1	-
- Sales unit	-	-	-	-
- General administration	49	40	9	-
- Others	66	66	-	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day

8.5 hours

Normal days/year

253 days

Actual hours/year

2,151 hours

Actual days/year

253 days

Actual hours/day

8.5 hours

Actual days/month

25 days

Actual hours/month

215 hours

Actual days/quarter

25 days

Actual hours/quarter

215 hours

Actual days/year

253 days

Actual hours/year

2,151 hours

Actual days/quarter

25 days

Actual hours/quarter

215 hours

Actual days/month

25 days

Actual hours/month

215 hours

Actual days/quarter

25 days

Actual hours/quarter

215 hours

Actual days/year

253 days

Actual hours/year

2,151 hours

Actual days/quarter

25 days

Actual hours/quarter

215 hours

Actual days/month

25 days

Actual hours/month

215 hours

Actual days/quarter

25 days

Actual hours/quarter

215 hours

Actual days/year

253 days

Actual hours/year

2,151 hours

Actual days/quarter

25 days

Actual hours/quarter

215 hours

Actual days/month

25 days

Actual hours/month

215 hours

Actual days/quarter

25 days

Actual hours/quarter

215 hours

Actual days/year

253 days

Actual hours/year

2,151 hours

Actual days/quarter

25 days

Actual hours/quarter

215 hours

Actual days/month

25 days

Actual hours/month

215 hours

Actual days/quarter

25 days

Actual hours/quarter

215 hours

Actual days/year

253 days

Actual hours/year

2,151 hours

Actual days/quarter

25 days

Actual hours/quarter

215 hours

Actual days/month

25 days

Actual hours/month

215 hours

Actual days/quarter

25 days

Actual hours/quarter

215 hours

Actual days/year

253 days

Actual hours/year

IV. ANNUAL PRODUCTION

(1966/67)

Products for group of products

	Yr. of Prod.	Quantity produced	Value unit factory value	Value unit factory value	Value unit factory value
		Units	Output	Imports	Exports
Tractors (manufactured)	1966	pieces	1,448	2,100-3,100	3,192
Tractors (assembly only)	1968	"	673	"	1,158
Cool-racks and rods	1958	t	114	"	"
Diskes and shares	1967	"	157	"	"
Ploughs and harrows	1968	"	1,223	12,000	9,931
Seeders and cultivators	1968	"	2,223	"	1,110
Carts for field work,	1968	"	2,61	"	1,110
Trailers of all types	1968	"	"	"	"

TOTAL VALUE OF PRODUCTION

Value 1,110 M. U.S. \$

	Ex-factory unit price (U.S.\$)
EXPORTS:	
Ploughs	575
Harrows	524
Scatters	110
Cultivators	96

V. ANNUAL CONSUMPTION

(1966/67)

1. Energy and water

	Value	Production	Imports	Exports	Total
TOTAL					115
- Electricity	000 Kwh	2,815			73
- Petrol, diesel oil		..			6
- Oils, fats, etc.		..			11
- Gas		..			4
- Water		..			1

2. Production materials

	Value	Production	Imports	Exports	Total
TOTAL	000 U.S. \$	2,815			73
- Steel		..	-		396
- Parts of motors and tractors		..	10 ^(*)		293
- Electrical equipment		..	50	30	7
- Iron parts		..	20	30	4,384
- Non-iron parts		..	-	-	423
- Tubes and tyres		..	-	-	481

(*) Average percentage, including also tractors which are only assembled

VI. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)

Industry group: Industrial machinery

(WMO: 360)

	Number of employees	Number of units prod.	Am. U.S. \$	Am. U.S. \$	Am. U.S. \$	Am. U.S. \$
Up to 15	1,723	7,566	646	2,598	76	
16 - 25	112	2,227	1,111	4,258	73	
26 - 500	202	18,061	1,549	6,775	108	
over 500	6	5,432	1,258	5,030	143	
TOTAL	2,043	33,224	1,267	5,374	108	

2. The group by
value of annual production

000 U.S. \$

	2	1,411	2,339	72	614	62
2	- 8	1,005	3,179	335	1,407	61
8	- 40	545	4,037	691	2,346	31
40	- 400	294	9,949	1,057	3,832	76
over 400	79	15,839	1,745	8,064	116	

TOTAL 3,414 35,363 1,193 5,187 108

* Capital is defined as physical capital assets

VII. VALUE ADDED

(1966/67)

Value 600 M. U.S. \$

1. Wages & salaries
 - Employees in direct production (1,151 persons)
 - Other employees (1,151 persons)
2. Other payments for employees
3. Annual depreciation
4. Rentals paid
5. Interest & royalties
6. Sales tax (including value added tax)
7. Other ind. bus taxes
8. () Subsidies
9. Corporate income before tax

VIII. BIMONTHLY EARNING RATES

End of June 1967

1. Local non-operatives

TOTAL

- Managers
- High execs
- Technicians
- Accountants
- Sales officers
- Other professional staff
- Clerks & typists

2. Local operatives

TOTAL

- Supervisors
- Foremen
- Machine operators
- Craftsmen
- Truck drivers
- Other full-time operatives
- Unskilled & part-time operatives

3. Foreign employees

TOTAL

- Managerial staff
- Engineers, trainers and other technical control staff

4. Other materials & supplies

TOTAL

- Packaging
- Repair & maintenance
- Non-factor service inputs

5. Business services purchased

TOTAL

- Transport, storage & insurance
- Communication, advertisements, etc.

6. Work performed by sub-contractors

TOTAL

1,110 M. U.S. \$

IX. SUPPLEMENTS

Governmental policies

An application was filed to receive the privileges granted under the Federal Investment Promotion Law: exemption of the federal portion of the sales tax, of import duties on parts, and reduction of the income tax. These privileges refer only to the production of tractors with an ordered content of nationally produced parts of more than 60%. The assembly of tractors as well as the production of implements are excluded.

Future plans

To be studied.

Technical advantages due to participation of foreign capital

- Training of personnel
- Supply of equipment and machinery (especially for tractor plant)
- Supply of production materials, patents and "know-how"
- Marketing of products.

Major Products: Agricultural tractors. Capable of producing annually 5,000 units in 2-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1966, proportion of foreign capital in total capital stock 49%.

I. FIXED CAPITAL ASSETS				II. INVENTORIES AND WORKING CAPITAL			
				In 000 US \$			
	Year of installation	Org. purchase value 1000 US \$	Replacement value 1000 US \$		Actual value 1000 US \$	2. Liquid assets	Actual value 1000 US \$
(End of 1967)				(End of 1967)			
1. Primary process equipment				1. Inventories		2. Liquid assets	
TOTAL		44		TOTAL	2,432	TOTAL	1,072
- Process equipment		11		- Production materials	374	- Cash (hand/bank)	30
- Hand tools & apparatuses		370		- Other input materials	845	- Markets, sec. & bonds	44
- Cost of installation				- Work-in-process	131	- Short-term investment	488
2. Primary industrial building		2,121		- Finished products	1,072	- Prepaid expenses	27
TOTAL		2,121				- Accounts receivable	483
(Total floor space: 1,100 m ²)							
3. Auxiliary facilities				3. Desired working capital			
TOTAL		152		TOTAL	2,533		
- Water, steam, electricity, cooling & storing		146		- Production materials	1	1. Number of workers	
- Transportation facilities		6		- Other input materials	1	A = Number operative	
- Administrative facilities		0		- Finished products	1	B = Other operative	
- Laboratory facilities		0		- Wages & salaries	1		
TOTAL PHYSICAL FIXED CAPITAL ASSETS		3,404		- Other special items	1		
(including land)		3,404					
4. Other fixed capital assets		107					
TOTAL		107					
(land (total acreage: 151,615 m ²)		107					
DETAIL OF PROCESS EQUIPMENT No. 1				III. MANNING TABLE			
	Supplier country	Year of installation	Org. purchase value 1000 US \$		Number of persons		
					Total	1st shift	2nd shift
					A	B	A+B
- Changers for hydrostatic	USA		113				
- Main axes	USA		2				
- General equipment	USA, UK		0				
- Tools	Japan, UK, Germany, Mexico	1967	108	name of purchase value			
- Welding equipment	Mexico		0				
- Assembly	USA		113				
HISTORY OF INVESTMENT:							
Construction of the factory started in 1966. The first trial as well as commercial production started in December 1967. The factory made its first profit in October 1968.							
ADVANTAGES DUE TO PARTICIPATION OF FOREIGN CAPITAL:							
<ul style="list-style-type: none"> - Better training of local employees - Modern machinery and equipment - Access to patents and "know-how" - Access to components produced in the country of the foreign capital owner - Larger market - Better administration and control. 							
CAPACITY POWER: Process equipment Electric motors		500 kW	Generating equipment installed capacity	-	167		
EXTERNAL CONDITIONS:							
Transport	Long distance, local areas, excellent.						
Utilities	Electricity, water, gas, excellent.						
Community	Residential, fair; health and recreational, educational, excellent.						

IV. ANNUAL PRODUCTION

(1967)
Product for group of products

	Wt. of final prod.	Quantity produced	Standard capacity output	Unit price in factory M\$ 00	Total production value M\$ 00 US \$
Tractors	1367	pieces	1,335	M\$ 1,000	M\$ 1,174
TOTAL VALUE OF PRODUCTION					M\$ 1,174

CAPACITY UTILIZATION:

The nominal capacity output of 5,000 tractors is calculated on 2-shift operation. Since in 1967 the company was in its first year of commercial production it could only work on one shift. Therefore, the underutilization of capacity was due not only to lack of demand for a considerably unknown brand, but also was due to difficulties to be envisaged during initial commercial production.

COMPETING IMPORTS:

The import of tractors is prohibited.

EXPORTS:

For the time being production only for the domestic market.

V. ANNUAL CONSUMPTION

(1967)

1. Energy and water

TOTAL

	Quantity consumed	Unit	Purchase	% Imported	Tariff rate	Total consumption value M\$ 00 US \$
- Electricity	000 kWh		1,000			M\$ 17
- Lubricants			++			
- Gas	000 m ³		75			M\$ 1
- Water	000 m ³		114			M\$ 10
						own supply

2. Production materials

TOTAL

	60	US \$ 0.04 per kg (gross)	13,440
for tractors			
60% of the components are imported;			
40% are manufactured locally			

VI. VALUE ADDED

(1967)	Value M\$ 00 US \$
1. Wages & salaries	
- Employees in direct production	M\$ 19
(" persons)	
- Other employees	M\$ 35
(" persons)	
2. Other payments for employees	M\$ 0
3. Annual depreciation	M\$ 0
4. Rentals paid	M\$ 0
5. Interest and technical assistance	M\$ 0
6. Sales tax (not included in total)	M\$ 0
7. Other indirect taxes	M\$ 0
8. (-) Subsidies	M\$ 0
9. Corporate income before tax	M\$ 0
	M\$ 54

VII. MONTHLY EARNING RATES

(End of 1967)	No. of workers	Average earnings per month
1. Local non-operatives		
TOTAL	M\$ 144	M\$ 30
- Managers	M\$ 14	M\$ 32
- Engineers	M\$ 10	M\$ 25
- Technicians	M\$ 15	M\$ 30
- Accountants	M\$ 12	M\$ 27
- Sales officers	M\$ 11	M\$ 26
- Other professional staff	M\$ 13	M\$ 27
- Clerks & typists	M\$ 9	M\$ 20
2. Local operatives		
TOTAL	M\$ 113	M\$ 20
- Supervisors	M\$ 11	M\$ 30
- Foremen	M\$ 8	M\$ 21
- Machine operators	M\$ 10	M\$ 21
- Craftsmen	M\$ 8	M\$ 20
- Truck drivers	M\$ 7	M\$ 17
- Other full-time operatives	M\$ 6	M\$ 16
- Unskilled & part-time operatives	M\$ 5	M\$ 10
3. Foreign employees		
TOTAL	M\$ 14	M\$ 32
- Managerial staff	M\$ 14	M\$ 40
- Engineers, trainers and other technical control staff	M\$ 10	M\$ 20

	Total	
1. Other materials & supplies		
TOTAL	M\$ 10	
- Packaging	M\$ 1	
- Repair & maintenance	M\$ 1	
- Bee-factor service inputs	M\$ 1	
4. Business services purchased		
TOTAL	M\$ 0	
- Transport, storage & insurance	M\$ 0	
- Commission, advertisements, etc.	M\$ 0	
5. Work performed by sub-contractors		
TOTAL	M\$ 0	

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965) The establishment is not included in the VIII Census
Industry group: Industrial 1966, referring to date of 1965 INDEC

1. The group by number of employees	2. Number of employees	3. Number of employees	4. No. of prod. units	5. No. of prod. units	6. No. of prod. units
up to					

1. The group by number of employees	2. Number of employees	3. Number of employees	4. No. of prod. units	5. No. of prod. units	6. No. of prod. units
up to					

1. The group by number of employees	2. Number of employees	3. Number of employees	4. No. of prod. units	5. No. of prod. units	6. No. of prod. units
up to					

IX. SUPPLIES

Government policies:

The import of components such as spare parts not produced nationally should be facilitated by exempting them from import duties. Governmental policies should aim at promoting agricultural development programmes by increasing the demand for tractors and agricultural machinery.

* Applied to different or different categories

Major Products: Agricultural machinery, trucks and tractors. Capabilities of production and assembly: 1,750 tons of agricultural machinery, 1,200 trucks and 3,000 tractors on 2-shift operation.

Reporting Unit: A centralized multi-establishment enterprise, founded in 1939, with 1,000 workers, 1000 foreign capital.

I. FIXED CAPITAL ASSETS

	Year of construction	Orig. value in 1960 US \$	Replacement value in 1960 US \$
(End of 1960)			
1. Primary process equipment			
TOTAL		4,400	4,400
- Process equipment	1947-60	4,295	4,295
- Hand tools & apparatus	1947-60	105	105
- Cost of installation	1947-60	Included above	Included above
2. Primary industrial building	1947	1,367	1,367
TOTAL		1,367	1,367
(Total floor space) 1,000 m ²		67	117
3. Auxiliary facilities		374	374
TOTAL		374	374
- Water, steam, electricity, cooling & storing		66	66
- Transportation facilities		49	100
- Administrative facilities		10	10
- Laboratory facilities		12	12
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land)		6,141	6,141
4. Other fixed capital assets			
TOTAL		143	143
- Land (total acreage: 110,000 a ²)		43	12
- Others (pipelines, fences, etc.)		100	120

DETAIL OF PROCESS EQUIPMENT (in %)

	Year of construction	Orig. value in 1960 US \$	Replacement value in 1960 US \$
- Machine tools	1947-60 USA	1,947-60 1,947-60	2,128 3,139
- Miscellaneous machinery	USA	1947-60	30
- Auxiliary equipment	USA, Mexico	1947-60	10
- Cooling and heating and equipment	Mr. Germany USA	1947-60 1947-60	1,100 1,100

HISTORY OF INVESTMENT:

Construction of the factory was started in 1945, trial production in 1946 and commercial production in 1947. In the same year profits accrued for the first time. The following investments were made for expansion purposes: (in 1000 US \$).

1949 approx.	732	Assembly of trucks (increasing the assembly of trucks to more than 60% of the national truck production)
1950	40	Poudry
1954	5,680	Production of tractors

TECHNICAL ADVANTAGES CONNECTED WITH THE PARTICIPATION OF FOREIGN CAPITAL:

- Training of technical staff, - supply of equipment and machinery according to requirements of products, - supply of patents and "know-how", marketing

CAPACITY PLANNING:	Generating equipment installed capacity	-	MVA
Process equipment:			
- Diesel engines	3,500 kW		
- Other prime movers	225 "	- Electric furnaces	" KW

EXTERNAL CONDITIONS:

- Transport: Long distance and local areas, ex. Client.
- Utilities: Electricity, gas, excellent; water, self-supply.
- Community: Residential, health and recreational, educational, all excellent.

H. INVENTORIES AND WORKING CAPITAL

	Value in 1960 US \$	Value in 1960 US \$	
(End of 1960)			
1. Inventories	Average value	2. Liquid assets	
TOTAL	31,174	TOTAL	21,214
- Production materials	1,224	Cash / hand/bank	572
- Other input materials	1,224	Markets, sec. & bonds	1,173
- Work in process	1,224	Short term investment	7
- Finished products	1,224	Prepaid expenses	377
		Accounts receivable	17,927
3. Desired working capital	4,128		
TOTAL			
- Production materials	1,224		
- Other input materials	1,224		
- Finished products	1,224		
- Wages & salaries	1,224		
- Other special items	1,224		

III. WORKING TABLE

	Number of period	1 10 days	2 20 days	3 30 days
(1961 average)				
	Total	A B	C D	D E
ALL SHOPS & UNITS:		44	35	25
1. Primary operative shops		33	28	20
- Assembly shop		13	13	10
- Country		10	10	7
- Forging		13	13	10
- Machining of semi-finished products		10	10	7
- Assembly of high voltage transformers		10	10	7
- Assembly of tractors		13	13	10
- Assembly of tanks		13	13	10
2. Auxiliary operative units		10	10	7
- Repair and maintenance		3	3	2
- Mechanical shop		3	3	2
- Utility control		3	3	4
- Product & material storage		3	3	2
- Off-site transport		4	4	3
- Canteen, canteens, etc.		3	3	2
- Others (shipment, vent., insulating, painting, laboratory)		10	10	7
3. Auxiliary non-operative units		32	347	5
- Production management		42	47	5
- Research & development		30	30	5
- Sales unit		5	5	5
- General administration		90	290	5

WORKING TIME PER OPERATIVE UNITS:

1st shift	2nd shift	Normal employee	24-hr. day
Normal hour/day	8,5	8,5	days
Actual hour/day	2,290	2,134,5	

CAPACITY OF OPERATIVE UNITS:**Utilization of capacity:**

Inter-utilization of capacity due to lack of demand. 1,300 additional man-hours are required on the second shift in order to achieve full utilization of capacity. Ultimately, the plant could work on 3-shift operation.

The motor tenting department can check 9 motors daily. Full utilization of capacity.

V. ANNUAL PRODUCTION

(1966/67)

Products or group of products	Yr of first prod.	Quantity produced Unit	Quantity	Avg unit price on factory (US \$)	Total output value (1000 US \$)
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Cans	1935	t	1,393	6.07	8,314
------	------	---	-------	------	-------

Cans with press-on-lids	1935	t	474	6.45	3,133
-------------------------	------	---	-----	------	-------

Disposable containers	1935	t	20	750	15
-----------------------	------	---	----	-----	----

TOTAL VALUE OF PRODUCTION: 1,442

VI. VALUE ADDED

(1966/67)

	Total value (1000 US \$)
1 Annual wages & salaries	1,141
- Operation workers	1,136
- 151 personnel	—
- Non-operative workers	5
- 14 personnel	—
2 Other payments for employees	—
3 Annual depreciation	189
- Machinery & equipment	147
- Buildings & other fixed assets	42
- Non-physical capital assets	—
4 Rentals paid	—
5 Interest & royalties	56
6 Sales tax	—
7 Other indirect business taxes	—
8 Profits	—
9 Corporate income before tax	1,142

(*) See page 4 XII. Supplements.

TOTAL VALUE ADDED

DESCRIPTION OF MAJOR PRODUCTS:

Cans: 1st quality tin plates, thickness of plate 0.21 - 0.31 mm. Size of cans ranging from 41 x 51 mm to 230 x 290 mm.Cans with press-on-lids: 1st quality, only slightly tin-plated, thickness of plate 0.21 - 0.31 mm. Size of cans ranging from 41 x 48 mm to 230 x 360 mm.Disposable containers: 2nd quality plate, varying tin-plating. Size of cans ranging from 242 x 375 mm to 300 x 460 mm.

All products can either be manufactured bright, printed or varnished. Serial production: lot sizes between 1,000 and 2,000 pieces. Packed in cartons (between 10 and 100 pieces) and partly shipped on pallets. Quality of tin plate has to meet governmental specifications. Shipment with company-owned trucks, limited transportability (up to 500 km) due to weight. Terms of delivery: up to 1 million cans can be delivered within 2 and 4 weeks.

MARKET ASPECTS:

Consumers of products:

Food industry, varnish industry, oil refineries.

EXPORT
Total annual export
No exports due to high transport costs.

Major products	To Western countries	To Eastern countries	To developing countries

Sales organisation:

Own sales department as well as representatives for the domestic market.

Share in the domestic market:

Approximately 35%.

Competition in the market:

4 can manufacturers and 2 manufacturers of cans with press-on-lids. Quality of products is nearly the same; keen price competition.

VII. ANNUAL CONSUMPTION

(1966/67)

	Quantity consumed Unit	Quantity	% Import	Average import duties (000 US \$)	Total consumption value (1000 US \$)
1. Energy and water					13
TOTAL:					
- Electricity	000 kWh	1,067 (*)		6	
- Gas	000 m ³	252		6	
- Water	000 m ³	57 (**)		1	
(*) 750,000 kWh					
(**) 43,000 m ³					

{ self-supplied and not counted in the total.

2. Production materials

TOTAL:					851
- Tin plates	t	2,822	100	44	731
- Other materials	..	..	20	5	120

	Total consumption value (1000 US \$)
3 Other materials & supplies	40
TOTAL	41
- Packaging material (cartons)	—
- Parts, supplies & services	—
- Other materials & supplies	—

	Total consumption value (1000 US \$)
4 Business services purchased	76
TOTAL	77
- Transportation, storage & insurance	—
- Communication, advertising & other business services	6

	Total consumption value (1000 US \$)
5 Work performed by subcontractors	—

TOTAL VALUE OF CONSUMPTION: 380

IV. ANIMAL PRODUCTION

1961]

Section for men of science

	Value	Parameter	Unit	Min	Max
- Dumper (firmly secured)	1.61	Plowshare	m ²	0.00	1.61
- Spreader (underlying equipment)	1.619	W	t/h	0.00	1.619
- Cultivators	1.619	W	t/h	0.00	1.619
- Ploughs	1.619	W	t/h	0.00	1.619
- Ploughs (animal traction)	1.612	W	t/h	0.00	1.612
- Cutters	1.612	W	t/h	0.00	1.612
- Harrows	1.619	W	t/h	0.00	1.619
- Sowers model 1	1.617	W	t/h	0.00	1.617
- Sowers model 2	1.617	W	t/h	0.00	1.617
- Maize seed peeling machine	1.619	W	t/h	0.00	1.619
- Planter	1.611	W	t/h	0.00	1.611
- Trucks (Pick-up)	1.619	W	t/h	0.00	1.619
- Trucks model 1	1.619	W	t/h	0.00	1.619
- Trucks model 2	1.619	W	t/h	0.00	1.619
- Tractors model 1	1.609	W	t/h	0.00	1.609
- Tractors model 2	1.609	W	t/h	0.00	1.609

TOTAL VALUE OF PRODUCTION

REPORTS

Sugar-cane harvesting equipment	\$ 1,111,111	100
Cultivators	40,000	3.6%
Ploughs	10,000	0.9%
Harrow	20,000	1.8%
Seed-peeling machines	1,111,111	100
Sowers	40,000	3.6%

YANMAR PUMPKIN

618

1966)

102/14

	000 kWh	1,290	-	1,1
- Electricity				
- Coke	t	517	0	13
- Diesel oil	000 l	760	-	73
- Water				

2 Production materials

POTAL

- Steel	t	3,460	-	-	171
- Pig iron	t	2,140	-	-	314
- Semi-finished parts	pieces	44	80	3,418	1,517
- Pipes	000 ft	14	-	-	50
- Welding rod	t	94	-	-	63
- Screws and nuts	000 pcs.	2,140	-	-	314
- Tires and tubes	000 units	11	-	-	171
- Paints	000 l	47	-	-	268
- Various			11		118

WHAT CHARGES TO BURDEN ON THESE FEDERAL AGENTS IN THIS DISTRICT?

6106

Industries served: Industrial machinery

1

1. <u>Size groups by number of employees</u>		<u>U. S. A.</u>		<u>W. H. C.</u>		<u>Other countries</u>	
up to 15	1,723	7,546	646	2,198	74		
16 - 25		112	2,227	1,111	4,252		
26 - 500	202	18,081	1,549	6,775	167		
over 500	6	5,432	1,258	5,036	141		
<u>TOTAL</u>		<u>2,043</u>	<u>35,286</u>	<u>1,287</u>	<u>5,474</u>	<u>109</u>	
2. <u>Size groups by sales of products and services</u>							
up to \$5	2	1,411	2,339	72	614	62	
2 - 8	8	1,085	3,179	335	1,107	11	
8 - 40	545	4,037	691	2,146	1		
40 - 400	294	9,349	1,052	3,132	46		
over 400	79	15,939	1,245	8,064	111		
<u>TOTAL</u>		<u>3,414</u>	<u>35,343</u>	<u>1,193</u>	<u>5,127</u>	<u>108</u>	

* Expected to define as proposed against another

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Government policies

Government watches the difference in import and export prices between Mexico and countries of origin. Usually a 10% mark-up is added to the prices prevailing abroad.

To increase the competitiveness of national industry, increases of nationally produced inputs should be favored.

Future plan:

Within 2 years approx. US \$ 400,000 will be invested to mechanize the foundry department. Additional 7 legs men will be employed on the 1st shift.

MIDDLE EUROPE : 360 - (1)

1221

Major Products:

Electrical pumps, electrical motors, switchgear.
 In 1966/67 the total value of production amounted to about US \$ 2.6 million based on 2- and 3-shift operation.
 Full-capacity output amounts to US \$ 3.9 million.

Reporting Unit:

A one-establishment enterprise; founded in 1909; privately owned; approximately 500 employees. Largest pump manufacturer in the country. Approximately 20% exports; partly licensed production; own research and development activities. Although the company is already very old the utilized machinery and equipment meet most modern standards. Business year: 1 April 1966 - 31 March 1967.

I. FIXED CAPITAL ASSETS

(End of March 1967)

	Original purchase value 1966 US \$	Replace- ment value 1966 US \$	Av- erage (Yrs.)
1 Primary process equipment (including installation cost)	352	381	
TOTAL	352	381	-
- Process equipment	-	-	
- Hand tools & apparatuses	-	-	
2 Buildings	275	368	
TOTAL			
- Primary industrial buildings (total floor space: 18,000 m ²)	275	368	..
- Auxiliary buildings			
- Warehouses			
- Office administration buildings			
- Housing			
3 Auxiliary facilities (excl. buildings)	85	111	
TOTAL	16	23	9
- Internal power equipment	-	-	
- Laboratory facilities	-	-	
- Means of transportation	53	58	4
- Office equipment	16	30	7
TOTAL PHYSICAL FIXED ASSETS (excluding land)	712	860	
4. Other fixed capital assets	98	271	
TOTAL	98	271	-
- Land (total acreage: 35,000 m ²)	98	271	
- Land improvements	-	-	
- Others	-	-	

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1966/67 monthly average)

	up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 560 US\$	over 560 US\$
1. Local non-operatives	-	-	-	-	1	4
- Managers	-	-	1	5	9	-
- Engineers	-	-	1	15	3	-
- Technicians	1	-	3	3	-	-
- Accountants	1	2	3	3	-	-
- Sales officers	-	1	3	7	11	-
- Clerks and typists	4	27	12	12	4	-
- Foremen	-	-	2	12	4	-
2. Local operatives	-	-	-	-	-	-
- Supervisors	-	-	-	-	-	-
- Foremen (*)	-	-	-	-	-	-
- Skilled operatives	1	26	38	32	-	-
- Machine operators	-	9	15	12	16	-
- Craftsmen	-	3	3	-	-	-
- Truck drivers	-	5	6	-	-	-
- Unskilled operatives	5	50	6	-	-	-
- Other full-time operatives	3	40	32	13	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees	-	-	-	-	No data available.	-
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

(*) Company considers foremen as local non-operatives.

*NB: Details of process equipment and capacity of primary operative shops are given on Page Three (Section VIII).

IV. MANNING TABLE

(Number of persons)

(1966/67 average)

Skill categories:
 A. Supervisory staff and foremen (for all shifts)
 B. Skilled operatives
 C. Semi-skilled operatives (machine operators)
 D. Unskilled operatives

EXTERNAL CONDITIONS:

Transport	external long distance	fair
	internal long distance	excellent
	local and city	fair
Utilities	electricity	fair
	water	fair
	gas	fair
Community	residence	fair
	health and recreation	fair
	education	insignificant
Own Welfare Facilities	++	

V. INVENTORIES

(End of March 1967)

	Avail- able value 1966 US \$	Number of units
Inventories	822	
TOTAL		
- Production materials	154	13
- Other input materials	311	1,5
- Work-in-process	357	1,5
- Finished products		

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	Total
Shift hours/day	9	8	8.5	hours
Actual hours/year	2,330	2,180	2,200	hours
Actual days/year	259	259	259	days

ALL SHOPS & UNITS:

	Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
1. Primary operative shops	307	24	166	92	21	2	2	2
- Foundry department	52	4	18	17	9	2	2	2
- Electrical motor dept.	43	3	5	35	-	-	-	-
- Mechanical production dept.	109	4	80	19	6	-	-	-
- Assembly	57	7	38	7	5	-	-	-
- Auxiliary depts. (e.g. tooling and mechanical shops)	46	6	25	14	1	-	-	-

2. Auxiliary operative units

	61	9	52	-	-
- Repair & maintenance	18	1	17	-	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	-	-	-	-	-
- Utilities control	2	2	-	-	-
- Product & material storage	15	5	10	-	-
- Off-site transport	10	1	9	-	-
- Guards, cleaners, etc.	16	-	16	-	-

Auxiliary non-operative units

	105	105	-	-	-
- Production management	3	3	-	-	-
- Research & development	2	2	-	-	-
- Sales unit	31	31	-	-	-
- Accounting	69	69	-	-	-
- General administration			-	-	-

V. ANNUAL PRODUCTION

(1966/67)

Products for group of products

Volute pumps, multistage centrifugal pumps, domestic water supply pumps, submersible pumps, high pressure pumps, boiler feed pumps, hot water circulating pumps, sewage pumps, hand pumps, etc.

Yr. of first prod.	Quantity produced Unit	Avg. unit price ex factory (US \$)	Total output value (000 US \$)
1969	pieces 11,843 (pumpe)	..	1,741
	pieces 8,411 (motors)	..	
Revenue from repairs			130
Revenue from installations			307
Wastes			12
TOTAL VALUE OF PRODUCTION:		2,640	

VI. VALUE ADDED

(1966/67)

Total value (000 US \$)

1 Annual wages & salaries	
- Operative workers 1,374 persons	31
- Non-operative workers 1,147 persons	15
2 Other payments for employees	14
3 Annual depreciation	47 (*)
- Machinery & equipment	32
- Buildings & other facilities	12
- Non-physical capital assets	3
4 Rentals paid	3.4
5 Interest & royalties	5
6 Sales tax	3
7 Other indirect business taxes	2
8 () Subsidies	—
9 Corporate income before tax	62
(*) Including 10.5% for accelerated depreciation.	
TOTAL VALUE ADDED	1,688

DESCRIPTION OF MAJOR PRODUCTS:

Domestic water supply pumps: for all kinds of water supply of homes, farms and small industries; horizontal or submersible pumps. Between 0.3 - 3.0 HP and 20 - 180 l discharge. To be used for water levels down to 7.5 m.

Submersible pumps: consist of a submerged motor and a vertical centrifugal pump; for drawing water from deep wells (30 m) and boreholes with water levels below 7.5 mm. Between 0.9 - 4.0 HP and 20 - 180 l discharge. Sand protected design.

High pressure pumps: suitable for all purposes in water system; two different designs; the closed radially bladed impellers and diffusers are common to all types. With or without inserted motor.

Boiler feed pumps: designed as multistage centrifugal pumps; for high pressure boiler feeding at caloric power stations and boiler plants.

Hot water circulating pumps: designed as single stage volute casing pumps; for forced circulation in la Mont-boilers, la Mont-walls and distant heating plants.

Sewage pumps: for screened and unscreened sewage, designed as single stage volute casing pumps, chokeless pump pumps or semi-axial screw pump. Single or serial production with individual outfitting. Terms of delivery are according to production time. License production of some pump aggregates.

MARKET ASPECTS:

Re-sales:

Switchgear; air tanks; electrical motors with more than 10 HP; pumps (enterprises acts as general agent).

Consumers of products:

60% industrial enterprises; 40% private consumers (approx. 35% of production are domestic water supply pumps).

Sales organisation:

Regional representatives. Direct selling to industrial plants.

Share in the domestic market:

Approximately 30 - 35%.

Major sales areas:

Europe (excluding Eastern Europe), Near East, South Africa, South America.

Competition in the market:

Pressure from abroad; prices of foreign products are about 10% lower.

EXPORT:

Total annual export US \$ 476,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Pumps (circulating pumps, monoblock pumps)	47	32	21

Export price policy:

Prices are adapted to international market prices.

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VIII. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1966/67)

	Quantity consumed Unit	% import	Average import duties (000 US \$)	Total consumption value (000 US \$)
1 Energy and water				41
TOTAL				
- Electricity	000 kWh 1,345	-	-	27
- Coke and coal	t 155	-	-	4
- Diesel oil, petrol	t 75	-	-	7
- Gas	000 m³ 36	-	-	1
- Water	000 m³ .. (*)	-	-	1
(*) Self-supplied.				
2 Production materials				579
TOTAL				
- Production materials for foundry	.. .. 13	-	-	65
- Production materials for mechanical manufacturing	.. .. -	-	-	340
- Other production materials	.. .. -	-	-	174

	Total consumption value (000 US \$)
3 Other materials & supplies	29
TOTAL	
- Packaging material (boxes, cartons, steel strips)	14
- Parts, supplies & services	-
- Other materials & supplies	15
4 Business services purchased	103
TOTAL	
- Transportation, storage & insurance	63
- Communication, advertising & other business services	240
5 Work performed by subcontractors	—
TOTAL	
TOTAL VALUE OF CONSUMPTION:	752

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (N.T.)	Number	Original Purchase Value (\$100 US \$)	Replace- ment Value (\$100 US \$)	Av. Age Year	Remarks	Supplier country	Year of instal- lation	Daily running time	Capacity output
Vertical turning machine	1	38	39	1					
Coiling machine	1	56	58	2					
Turning lathes (Montfort)	3	77	95	3					
Foundry equipment	1	89	104	4					
Other turning lathes	4	46	46	2					
Grinding machine	1	15	15	1					
Milling machine	1	8	9	2					
Balancing machine	1	10	11	3					
Copying lathes	1	6	7	2					
Drilling machines	2	7	7	2					

CAPACITY POWER:

Process equipment:
electric motors kW ..Generating equipment:
installed capacity kVA 400

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Type primary operative shops	No. of persons involved	Utilization:		C modern standard	Automation:
		A most advanced	B appreciably short of today's standard		
Foundry department		B	II		75% (1-shift operation)
Electrical motor department		B	II		30% (1-shift operation)
Mechanical production department		C	III		80% (2-shift operation)
Assembly		C	II		..

CAPACITY UTILIZATION:

Full capacity output: US \$ 3,370,000.

Current utilization: based on 1- and 2-shift operation, respectively.

Type of products produced: Approximate %

High products for processing: 0 20 40 60 80 100

- Centrifugal pumps for domestic water supply and small enterprises x
- Centrifugal pumps for farms x
- Centrifugal pumps for central water supply plants x
- Centrifugal pumps for industries (paper, sugar, chemicals) x
- Centrifugal sewage pumps x
- Electric motors (excl. special motors for pumps) x

Under-utilization is due to insufficient demand. In order to operate at full-capacity output, additional personnel would be required: operatives: 50 on 1st and 20 on 2nd shifts; non-operatives: 4 on 1st and 2 on 2nd shifts.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output (\$100 US \$)	No. of persons employed	Total output (\$100 US \$)
1963 (*)	2,660	547	360
1964 (*)	2,830	552	350
1965 (**)	3,210	564	410
1966 (**)	3,190	521	480
1967 (**)	3,480	510	580
1968 (forecast)			

(*) Calendar year; (**) Business year 1 April - 31 March.

Appropriate

standard

(\$100 US \$)

Total output

Period:	Total output (\$100 US \$)	Type of investment
From 1961 to 1962:	310	Boundary shop
in 1967:	47	

2. Future Plan:

From 19 - to 19 - : No date available.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in those underlined.

(1964)

Industry Pumps and similar products manufacturing HSIC Code 160

1. Size groups by number of enterprises	No. of enterprises	No. of employees	Av. per emp.			2. Size groups by annual value of production (\$100 US \$)	No. of enterprises	No. of employees	Av. per emp.		
			No. of enterprises	No. of employees	No. of enterprises				No. of enterprises	No. of employees	No. of enterprises
up to 19	27	131	1,614	7,696	55	up to 19	11	15	1,108	6,198	63
20 - 99	20	890	1,848	7,832	53	20 -	9	35	1,675	7,866	50
100 - 499	4	2,315	1,986	5,612	55	40 -	20	13	2,262	1,510	56
500 - 999	3	0	0	0	0	2,00 -	400	7	243	1,804	52
over 1,000	-	-	-	-	-	4K -	2,100	11	2,801	1,391	54
						over	2,100	3	0	0	0
TOTAL	54	3,146	1,932	6,282	54	TOTAL	54	3,356	1,932	6,282	54

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service			
1 Engineering study	1 Technical and managerial personnel	4 Import and export management	
2 Financial assistance	2 Industrial training	5 Assistance in foreign trade	
3 Industrial services	3 Technical consultancy	6 Admission of foreign labour	
4 Equipment supply including & maintenance			

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project

3

The company is interested in signing know-how contracts with companies in developing countries.

6

Under special conditions the company is prepared to train foreign employees.

XIII. SUPPLEMENTS & NOTES

History of investment:

The company was founded in 1909. Production started in the same year. Ever since the enterprise specialised in the design and manufacturing of pumps.

Contract and commission work:

Insignificant; only small series of some parts were manufactured by subcontractors.

Major bottlenecks in the past:

Quality of cast-iron was unsatisfactory. The turning department has to be modernised. Problems could partly be solved.

Current problems:

The machinery and equipment of the electric motor and mechanics production departments still fall short of today's standard. Standardisation of products is desirable.

Training courses:

In-plant training courses are provided regularly, external training only if required.

Inventory policy:

On the average the stock of finished products amounts to 17% of the total value of production.

Depreciation policy:

The straight-line method as well as the accelerated method of depreciation are applied.

Major Products: Chopper-blowers, combine harvesters, potato harvesters, maize attachments, etc.
Total output amounted to US \$ 7.9 million based on 1-to 2-shift operation. Company operates at full capacity.

Reporting Unit: A privately owned joint-stock company; founded in 1873; largest producer of agricultural machinery in the country, situated in the corn-growing area of the country. Approximately 20 - 25% exports; 650 employees. Partly licensed production of spare-parts. Business year: 1 March 1967 - 29 February 1968.

I. FIXED CAPITAL ASSETS

	(29 February 1968)	Original purchase value (1000 US \$)	Replace ment value (1000 US \$)	Ave (%)
1 Primary process equipment (including installation cost)			3,563	
TOTAL			3,563	6.8
- Process equipment	..	..	..	-
- Hand tools & apparatuses	..	..	..	-
2 Buildings			2,059	
TOTAL			2,059	
- Primary industrial buildings (total floor space: 18,089 m ²)	..	..	878	..
- Auxiliary buildings	..	..	193	..
- Warehouses	..	..	750	..
- Office/administration buildings	..	..	150	..
- Housing	..	..	86	..
3 Auxiliary facilities (etc. buildings)		123	134	
TOTAL		123	134	
- Internal power equipment (water supply)	6	7	8	
- Laboratory facilities	10	11	3	
- Means of transportation	78	85	4.4	
- Office equipment	29	31	5.5	
TOTAL PHYSICAL FIXED ASSETS (excluding land)			5,756	
4 Other fixed capital assets			175	
TOTAL			175	
- Land (total acreage: 16,873 m ²)	..	..	22	-
- Land improvements (i.e.c.: 22,827 ")	..	..	15	-
- Others (incl. intangible assets)	106	138	-	-

(See details of process equipment and units of primary operative departments on Page Three, Section III.)

EXTERNAL CONDITIONS

Transport	external long distance internal long distance local and city	fair excellent fair
Utilities	electricity water gas	excellent fair insignificant
Community	residence health and recreation education	poor (*) excellent fair
Own Welfare Facilities	Cafeteria, sports club and library.	
(*) Company has to provide housing and subsidize rents		

III. INVENTORIES

	(29 February 1968)	Actual value (1000 US \$)	Number of months
Inventories	2,087		
TOTAL	568	2.5	
- Production materials	568	2.5	
- Other input materials	57	2.5	
- Work-in-process	596	1.5	
- Finished products	886	1.5	

WORKING TIME PER OPERATIVE WORKER

	1st shift	2nd shift	3rd shift	
Shift hours/day	9	9.4	-	hours
Actual hours/year	2,007	2,000	-	hours
Actual days/year	203	223	-	days

H. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967/68 monthly average)

	up to 100 US\$	100 US\$	140 US\$	160 US\$	240 US\$	over 360 US\$
--	----------------------	-------------	-------------	-------------	-------------	---------------------

1. Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists
- Apprentices

2. Local operatives

- Supervisors
- Foremen
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives
- Apprentices

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

IV. EMPLOYMENT TABLE

(Number of persons)

(29 February 1968)

	Total	A	B	C	D
--	-------	---	---	---	---

ALL SHOPS & UNITS:

	Total	A	B	C	D
1 Primary operative shops	250	12	31	119	50

- Foundry

- Mechanical department
- Stamping department
- Welding department
- Joinery
- Assembly department
- Finishing department

2 Auxiliary operative units

- Repair & maintenance
- Mechanical shop (see above)
- Tooling shop
- Utilities control
- Product & material storage
- Off-site transport
- Guards, cleaners, etc.
- Vocational training dept.
- Service
- Others (testing dept.)

3 Auxiliary non-operative units

- Production management
- Research & development
- Sales unit
- Accounting
- General administration

V. ANNUAL PRODUCTION

(1967/68)

Product for group of products

	Wt of the prod.	Quantity produced Unit	Quantity Produced	Avg unit price at factory	Total output value 1000 US \$	Total output value 1000 US \$
Chopper blowers	1,900	pieces	2,810	702,-	1,972	
Combine harvesters	1956	"	630	7,092,-	4,469	
Potato harvesters	1964	"	300	2,820,-	846	
Tractor attachments	1963	"	50	2,717,-	137	
Foundry products	1,880	t	280	313,-	87	
Spare parts	-	-	-	-	256	
Moto	-	-	250	92,-	23	
Revenue from repair work	-	-	-	-	30	

TOTAL VALUE OF PRODUCTION: 1,924

VI. VALUE ADDED

(1967/68)

	Total value 1000 US \$
1. Annual wages & salaries	
- Operative workers	944
(470 persons)	
- Non-operative workers	412
(179 persons)	
2. Other payments for employees	439
3. Annual depreciation	265
- Machinery & equipment	40
- Buildings & other facilities	225
- Non-physical capital assets	-
4. Rentals paid	26
5. Interest & royalties	96
6. Sales tax	414
7. Other indirect business taxes	54
8. () Subsidies	-
9. Corporate income before tax	913

TOTAL VALUE ADDED: 1,563

DESCRIPTION OF MAJOR PRODUCTS:

Combine harvesters: Double cylinder threshing system; heavy-duty transmission for self-propelled combine use; hydraulically floating header; quick variable speed cylinder drive; 75 HP diesel engine; special auger; second stage cleaning; cutting width 2.10 - 4.20 m; harvesting capacity: 6 tons/hour.

Chopper-blowers: Various types; chop and blow feed and straw; extension tubes can be used; simple and easy feeding of crop into chutes.

Potato harvesters: High lifting capacity, mechanical separation of culls and stones, storage capacity of bunker 850 kg, easily to tip, daily harvesting capacity 1 hectare.

Serial production of basic aggregates.

MARKET ASPECTS:

Demand:

Transporters and motor movers with attachments, high-pressure pumps, chopper blowers, seed and fertiliser drills.

Consumers of products:

Farmers.

Sales organization:

Home market: regional representatives and direct selling to wholesalers (e.g. agricultural co-operatives).

Export market: central office sells to specialised wholesalers in importing countries.

Share in the domestic market:

Combine harvesters: 30%; chopper blowers: 70%; potato harvesters: 65%.

Competition in the market:

Products of competing firms are mechanically equal. Main advantages of reporting company: good service in all buyer countries, special design according to individual specifications.

Export countries:

Portugal, Spain, Italy, Yugoslavia, Norway, France, Netherlands, Libya, Turkey (only spare-parts).

Export price policy:

Adaptation to world-market conditions.

EXPORT:

Total annual export US \$ 1,235,000

Ship products	To Western Europe	To Eastern Europe	To Developing countries
Combine harvesters	91	6%	3%

Governmental policies:

The government subsidized exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under V.6 has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967/68)

	Quantity consumed Unit	Quantity Consumed	% Import	Total consumption value 1000 US \$	Total consumption value 1000 US \$
1. Energy and water					
TOTAL				59	
- Electricity	000 kWh	1,756	-	-	50
- Fuel oil	t	250	-	-	7
- Water (*)	000 m³	10	-	-	-
(*) Internally supplied.					
2. Production materials					
TOTAL				2,379	
- Rolled iron	t	~3,000	-	-	540
- Cast iron	t	1,253 (**)	-	-	-
- Foundry production material	t	2,300	-	-	53
- Timber	m³	300	-	-	12
- Potato and vegetables	t	100	-	-	74
- Others (standardized parts, motors, gears, etc.)	..	30	72	1,700	

(**) Internally manufactured.

3. Other materials & supplies

TOTAL	193
- Packaging material (bamboo, timber, oil paper)	3
- Parts, supplies & services	150
- Other materials & supplies	30

4. Business services purchased

TOTAL	1,630
- Transportation, storage & insurance	130
- Communication, advertising & other business services	619
- Commission for dealers	877
5. Work performed by subcontractors	4

TOTAL VALUE OF CONSUMPTION: 4,261

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (S.1.)	Number	Original Purchase Value US\$ 1000	Re- value US\$ 1000	Ave. age age	No. of units	Supplier country	Year of instal- lation	Daily running time
Dies	10,000	1,548	1,935	5	5	Germany, F.R.	various	1-1.5 shifts
Concentric process	6	16	35	20	0	Austria		
Bonding process	3	24	33	6		Switzerl.	1965	1.5 "
Oil hydraulic process	2	68	73	10		Germany, F.R.	1960	2 "
Plate rolling machine	1	4	5	5		Switzerl.	1965	1-1.5 "
Spot welders	3	21	25	5		Sweden	1963	1 shift
Rectifiers	5	11	11	2		Switzerl.	1960, 1965	1 "
Automatic chucking machine	1	30	36	3		Sweden	1963-1968	1 "
Balancing machine	1	3	5	10		Germany, F.R.	1958	1 shift
Straightening press	1	7	8	3		"	1965	1 "
Finishing plant	1	85	108	2		"	1959	1 "
Other special machines	..	97	116	4				
Cranes	6	..	56	20	0			
Lift trucks	6	37	46	4				
Tractors	3	8	9	3				
Others	..	..	1,061	..				

CAPACITY POWER:

Process equipment:

- electric motors kW 2,064

Generating equipment:

installed capacity kVA 10

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Indication:		C moderate standard	D apparently above of index's standard	E almost standard	A maximum	B moderately high standard	F minimum standard	Autonomie: I fully automated II semi-automated III un-automated
		Index	Autonomie							
Founding		C	III							
Mechanical department		C	II							
Stamping department		B	III							
Welding department		C	II							
Assembly department		C	III							

CAPACITY UTILIZATION:

Full-capacity output: US \$ 7,900,000.

Current utilization:

Major products for processing	Approximate %							
	Up to 20	20	30	30	50	50	70	70
Combine harvesters								
Chopper blowers								
Potato harvesters								
Harrow attachments								

Company is operating at full-capacity output. Increases in production are only possible if production space could be enlarged substantially which is difficult, since company is located in down-town area.

III. HISTORY & PLAN

1. Performance in the past:

Year:	1963	1964/65	1965/66	1966/67	1967/68	1968/69
Total output	7,280	8,590	9,560	9,380	9,690	8,710
No. of persons employed	680	665	760	730	685	735
Total output	\$30	\$39	\$57	\$53	\$63	\$59

Total output	No. of persons employed	Total output
US\$ 1000	US\$ 1000	US\$ 1000
1963	680	\$30
1964/65	665	39
1965/66	760	57
1966/67	730	53
1967/68	685	63
1968/69	735	59

2. Investments in the past:

From 1958 to 1960:	200
" 1961 " 1964:	290
" 1965 " 1967:	300
in 1967:	230

Type of investment
Storage facilities (assembly), control and finishing department
Finishing, varnishing and laboratory dept.
New office building, storage facilities and assembly

3. Future Plan:

From 1968 to 1969:

Introduction of new products, (silo's on glass-fiber basis), and fabrication processes. 20 additional operatives will be required on the 1st shift.

IX. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1964)

Industry	Industrial machinery				HSIC-Code: 360-1
	No. of units	No. of emp.	Ave. W. & S.	Ave. gross prod. val./per unit	Ave. value added/gross prod. val.
1. Size groups by number of persons employed					
up to 19	1,302	5,536	1,269	6,945	51
20 - 99	262	11,451	1,129	7,224	54
100 - 499	93	19,666	1,977	8,532	50
500 - 999	9	5,775	2,161	6,460	54
over 1,000	9	12,569	2,022	6,892	53
TOTAL	1,675	55,198	1,985	7,511	51

2. Size groups by production	No. of units	No. of emp.	Ave. W. & S.	Ave. gross prod. val./per unit	Ave. value added/gross prod. val.
HSIC-Code: 360-1	US\$ 1000	US\$ 1000	US\$ 1000	US\$ 1000	US\$ 1000
up to 20	707	395	502	5,351	51
20 - 40	276	1,330	1,146	5,667	54
40 - 200	402	5,781	1,435	5,983	54
200 - 400	102	4,198	1,745	6,569	55
400 - over 2,000	135	14,177	1,694	7,555	54
over 2,000	53	26,717	2,061	8,095	49
TOTAL	1,675	55,198	1,985	7,511	51

III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of assistance			
1 Engineering study	1 Technical and managerial personnel	4 Report and expert	
2 Financial assistance	2 Technical training	5 Economic advice	
3 Technical services	3 Industrial training	6 Construction of foreign offices	
4 Equipment supply	5 Technical consultancy	7 Other	
5 Information & consultation			

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
3				
6				

- 3 Company offers license contracts for chopper-blowers and combine harvesters;
- 6 Training of service and repair personnel as well as of machine operators.

III. SUPPLEMENTARY NOTES

Construction note:

Gear cutting, heat treating and galvanizing are done by several subcontracting firms. The commission paid by the reporting company amounted to US \$ 4,000.

Establishments in the past:

Lack of space; plant is situated in a down-town area and separated by public roads.

Financial machinery:

The financial basis has to be broadened in order to ensure the establishment's present size.

Depreciation policy:

Both the straight-line as well as the accelerated methods of depreciation are applied.

Major Products:

Machinery and equipment for plastic processing industry; the annual production of \$ 12 million (as shown in V) practically represents the capacity output for the year considered (one-shift operation), but it is expected that some \$ 1 to 2 million investment on bottleneck shops will increase the capacity by US \$ 4 to 8 million/year.

Reporting Unit:

Industrial segment enterprise; founded in 1961; private corporation with minor participation of foreign capital; 45 employees; within the past 4 years the company nearly doubled its sales; almost the entire production is exported to industrialized as well as to developing countries. An amount equivalent to 10% of the sales revenue is spent annually on research and development activities.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1968 US \$)	Replace- ment value (1968 US \$)	Ave age (Yrs.)
1 Primary process equipment (including installation cost)	112	1,094	5
TOTAL	1,202	230	5
- Process equipment	112	964	5
- Hand tools & apparatuses	-	-	-
2 Buildings	1,114	1,143	5
TOTAL	1,114	1,143	5
- Primary industrial buildings	1,114	1,143	5
- Total floor space: m²	1,114	1,143	5
- Auxiliary buildings	-	-	-
- Warehouses	-	-	-
- Office administration buildings	1	2	5
- Housing	-	-	-
3 Auxiliary facilities (local buildings)	249	338	4
TOTAL	249	338	4
- Internal power equipment	-	-	-
- Laboratory facilities	-	-	-
- Means of transportation	112	147	4
- Office equipment	127	131	4
TOTAL PHYSICAL FIXED ASSETS (excluding land)	2,551	3,113	
4 Other fixed capital assets	1,051	1,052	
TOTAL	1,051	1,052	
- Land (total acreage: 11,000 m²)	-	-	-
- Land improvements	-	-	-
- Others	1,051	1,052	-

H. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1968 monthly average)

	100 100 100	100 100 100	140 140 140	160 160 160	240 240 240	560 560 560
	100	100	140	160	240	560

1. Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists

2 Local operatives

- Supervisors
- Foremen
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

3 Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

*NB: Details of process equipment and capacity of primary operative shops are given on Page Three (Section VIII).

EXTERNAL CONDITIONS:

Transport	External long distance	100
	Internal long distance	-
	Local and city	-
Utilities	Electricity	100
	Water	-
	Gas	-
Community	Residence	100
	Health and recreation	-
	Education	100
Own Welfare Facilities		-

III. INVENTORIES

(End of 1968)

	Annual value (1968 US \$)	Number of months
Inventories	7,391	-
TOTAL	7,391	-
- Production materials	1,377	..
- Other input materials	122	..
- Work-in-process	3,624	..
- Finished products	1,662	..

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	-	-	-	hours
Actual hours/year	2,059	-	-	hours
Actual days/year	228	-	-	days

IV. MANNING TABLE

Number of persons

	Total	A	B	C	D
	575	24	6	6	6

ALL SHOPS & UNITS:

	Total	1st shift	2nd shift	3rd shift
	575	24	6	6

	Total	1st shift	2nd shift	3rd shift
1. Primary operative shops	201	17	14	8
- Machine shop	52	4	26	17
- Sheet metal workshop	7	1	6	-
- Electrical workshop	32	2	28	1
- Nozzle production	24	2	21	-
- Assembly	27	4	21	1
- Paint shop	11	1	9	3
- Final fitting shop	6	1	5	-
- Tempering shop	2	-	1	1
- Manufacturing of parts	38	2	26	8

2. Auxiliary operative units

	Total	1st shift	2nd shift	3rd shift
- Repair & maintenance	4	-	-	4
- Mechanical shop	73	3	-	70
- Tooling shop	4	-	-	4
- Utilities control	-	-	-	-
- Product & material storage	24	-	-	24
- Off-site transport	5	-	-	5
- Guards, cleaners, etc.	24	-	-	24
- Others	49	4	-	45

3. Auxiliary non-operative units

	Total	1st shift	2nd shift	3rd shift
- Production management	3	-	-	3
- Research & development	65	-	-	65
- Sales unit	59	-	-	59
- Accounting	13	-	-	13
- General administration	51	-	-	51

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)	Number	Original Purchase Value 1962 US \$	Number 1962 US \$	Av. Age years	Remarks	Remarks	
						1962 US \$	Further det.
Bodymaker for cans	2			5			
Bodymaker for cans with press-on-lids	1			3			
Automatic cover punching machines	3			3			
Printing and varnishing line	1	505	2,322	3			
Drying furnace	1			2	80		
Semi-automatic soldering lines	3			7			
Other special machines	73			20			
Metal cutting machines	61	61	310	1-35	partly Ob		

CAPACITY POWER:							
Process equipment:							
electric motors	kW	380					
Generating equipment:							
installed capacity	kVA	200					
(hydraulic power station)							

CAPACITY OF PRIMARY OPERATIVE SHOPS:				Manufacture:		Automation:			
Major primary operative shops	Kind of process involved	Method:	Auton.	A modernized	B apparently close to today's standard	C almost modernized	D approximately close to today's standard	E fully automated	F unmodernized
Cans		C	I, II						
Cans with press-on-lids		C	II						
Disposable containers		C	II						

CAPACITY UTILIZATION:		IX. HISTORY & PLAN	
Full capacity output	US \$ 1,452,000	Total output 1962 US \$	No. of persons employed
Current utilization	based on 2-shift operation	Year: 1962/63	Total exports 1962 US \$
		1963/64	No. of persons employed
Major products for processes	up to 30 30 30 30 30 30 30 100	1964/65	Total exports 1962 US \$
	X	1965/66	
	X	1966/67	
	X	1967/68	
Cans		(*) Data refer to entire company.	
Cans with press-on-lids			
Disposable containers			
(*) Data refer to entire company.			
2. Investments in the past:			
From 1955 to 1967:		1,010	Type of investment
			Buildings, machinery and equipment
3. Future Plan:			
From 1967 to 1969:		170	Expansion of machinery and operative shops; rationalisation of production processes; specialisation of product-lines.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of those size groups are included in those underlined.

(1964) Manufacture of metal products, except
Industry Machinery and transport equipment (ISIC Code 350)

1. Size groups by number of persons employed		No. of comp.	No. of comp.	Ave. W. & S. per pers. 1962 US \$	Ave. gross prod. val/ per pers. 1962 US \$	Ave. value addit./gross prod. ratio (%)	
up to	19	67	433	1,738	8,298	57	
20 -	43	1,984	1,728	8,112	53		
100 -	499	24	5,543	1,752	6,054	56	
500 -	999	-	-	-	-	-	
over	1,000	1	0	0	0	0	
TOTAL:		135	7,860	1,746	6,671	55	

2. Size groups by annual value of production		No. of comp.	No. of comp.	Ave. W. & S. per pers. 1962 US \$	Ave. gross prod. val/ per pers. 1962 US \$	Ave. value addit./gross prod. ratio (%)	
up to	20	27	36	1,029	5,754	59	
20 -	40	11	36	1,643	8,085	61	
40 -	200	41	728	1,679	6,031	63	
200 -	400	15	681	1,592	5,909	55	
400 -	2,000	38	6,377	1,772	6,823	54	
over	2,000	3?	0	0	0	0	
TOTAL:		135	7,860	1,746	6,671	55	

V. ANNUAL PRODUCTION

(1964)

Products for group of products

- Extruders
- Various subsequent units for plastic processing
- Pipe extrusion heads
- Vertical cabinet
- Rotary pipe saw
- Vacuum vented hopper
- Embossing and laminating - chamber
- Wall pipe haul-off
- Multistage annealing oven
- Wall haul-off and orienting equipment
- Caterpillar-type haul-off
- Dosing feeder
- Pipe set with tipping trailer

% of
the
prod.

Quantity produced

Unit

Quantity

Av. unit
price
factory
RSR US\$Total
output
value
RSR US\$

RSR US\$

TOTAL VALUE OF PRODUCTION: CONTINUATION
SEE PAGE 2

VI. VALUE ADDED

(1964)

1. Annual wages & salaries

- Operative workers
- Non-operative workers

2. Other payments for employees

3. Annual depreciation

- Machinery & equipment
- Buildings & other facilities
- Non-physical capital assets

4. Rentals paid

5. Interest & royalties

6. Sales tax

7. Other indirect business taxes

8. I.T. Subsidies

9. Corporate income before tax

Total
value
RSR US\$

TOTAL VALUE ADDED:

DESCRIPTION OF MAJOR PRODUCTS:

Extruders:

Twin-screw and two-stage twin-screw for extrusion of thermoplastics. From the extruder the material can be processed by various methods such as: rolling, drawing, embossing, laminating, annealing, stretching, etc.

Subsequent units:

For motor and temperature control of extruders and subsequent units.

Vacuum vented hoppers:

For material inputs up to approx. 100 kg/m.

Subsequent units:

- For the production of commercial and special pipes, pipe extrusion heads, injection molding units, etc.
- For the production of thermoplastic sheet sections and webs. Flat or corrugated, planar or embossed, etc., output width up to 2,100 mm and final thickness up to 10 mm. (Sheet, web, embossed, etc.)
- For slit die extrusion of single and double layer film, thickness of the two layers up to 1.0 mm and the gap size between 1.0 and 2.5 mm. (Double slit die, pelleting unit, etc.)
- For the production of thermoplastic profiles, cross sections up to approx. 100 mm x 100 mm. (Profile, corner, etc.)

MARKET ASPECTS:

The plastic processing industry in the country records a massive growth rate of 10% annually. The company's sales are expected to grow to some extent.

Sales organizations:

The company has its own sales organization as well as agents and distributors in many developed countries. Production only to order.

Recipients of products:

Plastic processing industry.

Market and competition:

Our 100 customers are presently supplied with the products of this firm, as well as from three large scale plastic processing firms. Unlisted sales partner. The domestic market is covered completely by this firm. Due to quick technical obsolescence the machinery produced has an average lifetime of only approximately 5 years.

EXPORT: US \$ 11,711,000 = 9% of the total value
Total annual export:

To
Western
Europe

To
Other
countries

VII. ANNUAL CONSUMPTION

(1964)

1. Energy and water

TOTAL:

- Electricity

RSR
MMR

RSR
MMR

Total consumption
value
RSR US\$

RSR

US\$

RSR

2. Production materials

TOTAL:

- Iron and steel of different forms
- Electrical material
- Non-ferrous metals
- Gears
- Motors
- Others

{

RSR
MMR

RSR
MMR

3. Other materials & supplies

TOTAL:

- Packaging material

Total
value
RSR US\$

176

176

4. Business services purchased

TOTAL:

- Transportation, storage & insurance
- Communication, advertising & other business services

168

168

5. Work performed by subcontractors

TOTAL:

141

141

TOTAL VALUE OF CONSUMPTION: CONTINUATION
SEE PAGE 2

MIDDLE EUROPE : 360 - (3)

124

VII. TECHNOLOGICAL CHARACTERISTICS

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	No.	Original Position	Original Value MMU US \$								
DETAIL OF PROCESS EQUIPMENT (1.1.)											
Copping lathe	1	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Nozzle grinding machine	2	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Polishing lathe	3	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Hydraulic stretch tension press	4	10,4	10,4	10,4	10,4	10,4	10,4	10,4	10,4	10,4	10,4
Plate working machine	5	4,7	4,7	4,7	4,7	4,7	4,7	4,7	4,7	4,7	4,7
Worm lathes	6	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0
Gimlet machine	7	3,7	3,7	3,7	3,7	3,7	3,7	3,7	3,7	3,7	3,7
Hob milling machine	8	24,1	24,1	24,1	24,1	24,1	24,1	24,1	24,1	24,1	24,1
Liquid honing machine	9	4,7	4,7	4,7	4,7	4,7	4,7	4,7	4,7	4,7	4,7
Honing machine	10	17,7	17,7	17,7	17,7	17,7	17,7	17,7	17,7	17,7	17,7
Special machines for nozzle manufacturing	11	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Turning lathe	12	104,1	104,1	104,1	104,1	104,1	104,1	104,1	104,1	104,1	104,1
Cylindrical grinding machine	13	30,2	30,2	30,2	30,2	30,2	30,2	30,2	30,2	30,2	30,2
Surface grinding machine	14	4,7	4,7	4,7	4,7	4,7	4,7	4,7	4,7	4,7	4,7
Tool grinders	15	3,7	3,7	3,7	3,7	3,7	3,7	3,7	3,7	3,7	3,7
Lapping machine	16	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4
Double floor stand grinders	17	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7
Rock-drill machines	18	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3
Guillotine shears	19	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7
Plate bending machines	20	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7
Ripping shear	21	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Welding set	22	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1
Rebar cutting machine	23	4,2	4,2	4,2	4,2	4,2	4,2	4,2	4,2	4,2	4,2
High speed shaper	24	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7
Milling machine	25	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7
Upright drilling machines	26	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7
Bench drilling machines	27	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7
Radial drilling machine	28	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7

CAPACITY POWER:

Process equipment:

- electric motors

- compressed air, oil, steam

Generating equipment:

- installed capacity

=

EVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	No. of process workers	Address	Address	Further details
Mechanical engineering	Extruding and other plastic processing in-process			

CAPACITY UTILIZATION

Full capacity output

The 1967 output will be increased by a bottleneck in the tooling department. Full capacity output of 100% is anticipated when this will be reached after completion of a test bench and assembly circuit in 1970. In 1970 output is expected to approach 100% utilization.

Current utilization:

Major products for processing	0	20	40	60	80	100
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Machine shop

Tempering plant

Testing and assembly

Special processing shop

Based on 1-shift operation.

IX. HISTORY & PLAN

1. Performance in the past:

Year	1963	1964	1965	1966	1967	1968	Total output MMU US \$	Address	No. of workers	Total output MMU US \$
	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240
	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240
	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240
	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240

2. Investments in the past:

From 19	To 19	Total	Type of investment
1963	1964	20	Machine shop
1965	1966	30	Tempering plant
1967	1968	30	Testing and assembly

3. Future Plan:

From 19	To 19	Total	Combined testing and assembly hall, including an office-building (some US \$ 1.2 million) as well as machinery and equipment for primary processing shops.
1969	1970	20	

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1964)

Industrial machinery

(ISIC-Code: 360)

Industry	No. of plants	No. of workers	Avg. W. & S. per plant MMU US \$	Avg. gross prod. val/ per plant MMU US \$	Avg. value machines prod. ratio (%)	No. of plants	No. of workers	Avg. W. & S. per plant MMU US \$	Avg. gross prod. val/ per plant MMU US \$	Avg. value machines prod. ratio (%)		
1. Size groups by number of persons employed:												
up to 10	1,302	5,536	1,269	6,946	51	26	707	905	826	5,351	57	
20 - 99	262	11,451	1,720	7,524	54	41	1,310	1,146	5,677	54	54	
100 - 499	93	19,866	1,917	8,942	50	40	1,301	1,135	5,283	54	54	
500 - 999	9	5,776	2,160	7,401	54	400	1,192	1,245	6,760	54	54	
over 1,000	9	12,569	2,322	6,991	53	over 2,000	135	11,171	1,394	7,540	54	54
TOTAL:	1,675	55,198	1,240	7,511	51		2,671	55,198	1,240	7,511	51	

III. DESIGNATED AREAS FOR CO-OPERATION WITH GOVERNMENT AUTHORITIES

Type of services		
1 Engineering study	5 Technical and managerial personnel	8 Import and export services
2 Financial services	6 Technical training	9 Administration of foreign labour
3 Industrial services	7 Professional consultancy	
4 Equipment supply construction & management		

INTERNATIONAL SURVEYORS FOR COORDINATING WITH POLICE A CRIME SCENE

Type of
industry Country
or region No. of
projects _____
Field of industry _____
Description of project _____

The central government has been instrumental in co-operating with provincial governments

Net sales and operating income were up 10% and 11%, respectively, with the company's total market share strengthened 1 percentage point.

The company has special service teams to ensure proper operation of the machinery.

The community maintains an arm training center, which is used for training and as a base for the community's defense.

The following text is prepared for consideration by

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"ANNUAL PRODUCTION (cont'd)

Products (or group of products)

Products (or group of products)	first year of prod.	Quantity produced	factor (F.P.C.)	Value
	Plant	Quantity		
Plant for production of self-adhesive film	1967	pieces	1	1,700
Others	"	"	"	"
Flooring plants	"	"	"	"
Comminuting equipment	"	"	"	"
4-colour printing machine	"	"	"	"
Spare parts				
Other by-products and scrap				

"MANAGING IN PRACTICE"

DESCRIPTION OF MAJOR PRODUCTS (cont'd)

Subsequent units (cont'd): - For melt die extrusion of thermoplastic flat sheet (longitudinally oriented), output width up to 1,800 mm and thicknesses between 0.02 and 0.1 mm. (Cut die, haul-off and stretching unit, etc.)
 - For wet and dry granulating of thermoplastics. (Granulating head and conveyor, etc.)

Measuring and testing equipment

Personnel structures: 44% of the employees is engaged in design and technical development work, 17% in sales, 17% in administration, and 12% in production. About 70% of the employees graduated from technical or engineering schools.

MIDDLE EUROPE : 360 - (4)

Major Products: Forging machines, crankshaft milling machines and drilling machines.

Total value of production amounted to about US \$ 9 million based on 2-shift operation.

Reporting Unit:

A one-establishment enterprise, privately owned, founded in 1952. The break-even point was surpassed in the same year after sales exceeded US \$ 220,000,-. 10% of employees, almost 10% of them are engaged in design and development work. Largest regional employer.

I. FIXED CAPITAL ASSETS

	(End of 1967)	Original purchase value 1960 US \$	Replace ment value 1960 US \$	Ave. 1960 US \$ (Vol.)
1 Primary process equipment (including installation cost)				
TOTAL	4,146	4,128		
- Process equipment *	4,138	3,753	4	
- Hand tools & apparatuses	58	576	-	
2 Buildings	4,349	4,152		
TOTAL				
- Primary industrial buildings	2,125	3,141	7	
- (total floor space) 14,964				
- Auxiliary buildings	625	627	1	
- Warehouses	296	334	6	
- Office administration buildings	13	50	20	
- Housing				
3 Auxiliary facilities (excl. buildings)	252	261		
TOTAL				
- Internal power equipment				
- Laboratory facilities				
- Means of transportation	19	20	2	
- Office equipment	231	241	3,5	
TOTAL PHYSICAL FIXED ASSETS (excluding land)	8,147	8,111		
4 Other fixed capital assets	374	584		
TOTAL				
- Land (total acreage: 37,091m²)	267	321	-	
- Land improvements (t.s.m.r. 18,032 ")	77	181	-	
- Others	30	30	-	

*NB: Details of process equipment and capacity of primary operative shops given on Page three (Section VIII).

H. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1967 monthly average)

100	120	140	160	180	200	220
US\$						

1 Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists
- Foremen

2 Local operatives

- Supervisors (*)
- Foremen (*)
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

3 Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

Included in local non-operatives and operatives

(*) The company considers supervisors and foremen as "non-operatives".

IV. MANUFACTURING TABLE

Number of persons

Sub-categories

- A Supervisory staff and foremen (for all shifts)
- B Skilled operatives
- C Semi-skilled operatives / machine operators
- D Unskilled operatives

(As per 31/10/1968)

Total	A	B	C	D

ALL SHOPS & UNITS:

	675	195	379	101
1. Primary operative shops	515	55	295	21
- Production planning	25	24	-	1
- Tool shop	9	1	-	5
- Mechanical processing	273	14	144	11
- Assembly	207	15	151	10
- Apprentice shop	1	1	-	-

2. Auxiliary operative units

	28	8	20	-
- Repair & maintenance	2	2	-	-
- Mechanical shop	-	-	-	-
- Tooling shop	-	-	-	-
- Utilities control	-	-	-	-
- Product & material storage	12	4	8	-
- Off-site transport	8	2	6	-
- Guards, cleaners, etc.	6	-	6	-

3. Auxiliary non-operative units

	132	132	-	-
- Production management	5	5	-	-
- Research & development, design	55	55	-	-
- Sales unit	23	23	-	-
- Accounting	19	19	-	-
- General administration	30	30	-	-

III. INVENTORIES

(End of 1967)

Actual value 1960 US \$	Number of months
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Actual value 1960 US \$	Number of months
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Actual value 1960 US \$	Number of months
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Actual value 1960 US \$	Number of months
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Actual value 1960 US \$	Number of months
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V. ANNUAL PRODUCTION

(1967)

Products for group of products

	W. of prod.	Quantity produced Unit	Quantity Produced	Am. val. prod. in factory US \$	Total output value US \$ 1,000
Forging machines	1952	Pieces	13	36,5200	6,148
Crankshaft milling machines	"	"	10	36,8,100	3,674
Drilling machines	"	"	46 (10)	2,340	14
Revenue from contract and commission work	"	"	—	—	84

(*) Not including internal consumption
of 1 pieces.TOTAL VALUE OF PRODUCTION: 9,546

VI. VALUE ADDED

(1967)

1. Annual wages & salaries

Operative workers	Total value US \$ 1,000
1. Total general	1,148
1. Non-operative workers	—

2. Other payments for employees

Total	Total value US \$ 1,000
—	—

3. Annual depreciation

Machinery & equipment	Total value US \$ 1,000
Buildings & further facilities	1,148
Non-depreciable capital assets	—

4. Rents paid

Total	Total value US \$ 1,000
—	—

5. Interest & royalties

Total	Total value US \$ 1,000
—	—

6. Sales tax

Total	Total value US \$ 1,000
—	—

7. Other indirect business taxes

Total	Total value US \$ 1,000
—	—

8. Subsidies

Total	Total value US \$ 1,000
—	—

9. Corporate income before tax

Total	Total value US \$ 1,000
—	—

TOTAL VALUE ADDED: 1,548

DESCRIPTION OF MAJOR PRODUCTS:

Forging machines utilized for precision forging, gas cylinder precision forging, stretch forging, automatic die forging and blank forging, single production; special design. Terms of delivery: 1/2 - 1 year.

Advantages: Operation by semi-skilled personnel; one-man operation; high yield and low waste; vibration-free operation, etc.

Crankshaft milling machines: Single production; special design.

Terms of delivery: 9 - 14 months.

Advantages: High cutting speed, simpler control movements; greater stock removal.

Drilling machines: Serial production; prompt delivery.

MARKET ASPECTS:

Re-sale:

Since buyers of machine tools frequently asked for tools, they were added to the sales programme. Annual turnover: US \$ 170,000.

Consumers of products:

Iron and steel industry, manufacturers of crankshaft machinery.

Sales organization:

Domestic market: products are directly sold to customers.

Foreign market: representatives.

Extent of the market:

Customers all over the world except for Australia.

Durability of products:

8 - 10 years.

Share in the domestic market:

Forging machines: 100%, almost no competitors at home and abroad.

Drilling machines: 10%.

Share in foreign market: Forging machinery: almost no competitors; crankshaft milling machines: 30%, one major competitor only.

EXPORT

Total annual export: US \$ 1.5 million.

Major products	To Germany	To France	To Italy
Forging machines	76%	12%	11%
Crankshaft milling machines	12%	48%	40%

Governmental export right

The government does not export right, so it is impossible to know the sales tax accumulated in an exported product. During the present and previous financial years, the sales tax indicated in parentheses has been admitted unconditionally.

VII. ANNUAL CONSUMPTION

(1967)

1. Energy and water

TOTAL	Quantity consumed Unit	Quantity Produced	% Import	Amount (*) US \$ 1,000	Total consumption value US \$ 1,000
				—	72
- Electricity	000 kWh	1,654	—	—	45
- Fuel oil	6	673	—	—	15
- Motor fuels	000 l	68	—	—	10
- Water	000 m ³	26	—	—	2

2. Production materials

TOTAL	Quantity consumed Unit	Quantity Produced	% Import	Amount (*) US \$ 1,000	Total consumption value US \$ 1,000
- Steel	t	360	16	1.6	121
- Sheet metal	t	730	—	—	115
- Other production materials and supplies	..	..	54	11.2	267
- Various supplies	..	..	40	9.4	2,523
- Forms	..	..	—	—	91

(*) Low import duties since goods are predominantly admitted in bond.

3. Other materials & supplies

TOTAL	Value US \$ 1,000
- Packaging material	40
- Parts, supplies & services	98
- Other materials & supplies	108

4. Business services purchased

TOTAL	Value US \$ 1,000
- Transportation, storage & insurance	92
- Communication, advertising & other business services	648

5. Work performed by subcontractors

TOTAL	Value US \$ 1,000
—	223

TOTAL VALUE OF CONSUMPTION: 4,378

IV. THERAPEUTICAL CHARACTERISTICS

NAME OF PROSES EQUIPMENT (1)	Number	Value	Number	Value	Around in 100-meters distance	Supplier country	Year of instal- lation	Daily running time
Vertical boring mill (spacial)	1	91	91	1	PR.Germ.	1966	18 "	18 hrs
Boring mills NC	4	404	404	2	PR.Germ.	since 1967	18 "	18 "
Turning machines (spacial)	3	187	187	12	PR.Germ., Austria, Poland	1967	18 "	
Co-ordinate table drilling machine	1	43	46	3	PR.Germ.	1965	18 "	
NC-drilling machines (%)	3	91	92	1	USA	1966-67	18 "	
Turning machines	22	245	271	4				
Vertical boring mills	2	74	99	5				
Planing machines	7	248	262	5				
Milling machines	23	196	219	5				
Boring mills	7	496	535	5				
Drilling machines	13	71	79	5,5				
Grinding machines	38	433	484	5,5				
Crane installations	20	601	635	4,5				
Other machines	42	329	345	5				

(*) The company could increase its trading capacity by 4% due to the installation of 900 m² of floor space, reduction of costs for design and construction of buildings and fixtures as well as for fitting-out and interiorizing.

CAPACITY TESTS

Process equipment:

Generating equipment:
installed capacity - 11VA

CAPACITY OF PRIMARY OPERATIVE SHOPS:	Type of process method	Indication		Number needed	Comments
		A: most automated	B: moderately high automated		
Mechanical processing		A	B		
Assembly		A	B/C		

CAPACITY UTILIZATION

Full capacity output appx 100,000 US \$ 3 millions

Current affiliation



For the moment, almost full utilization of the existing capacity

After expansion of the assembly hall and modernization of the process

equipment the company will have increased its capacity output by

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第十一章 地理

1. Performance in the past:	Total sales	Total costs
	US\$ m.	US\$ m.
Year: 1963	2,760	2,650
1964	2,440	2,150
1965	3,570	3,460
1966	5,480	5,070
1967	9,120	8,900

The break-even point was surpassed for the first time in 1952 with sales exceeding US \$ 220,000.

2. Investments in the past:	Amount RSB 1000	Type of investment
From 1955 to 1966:	3,740	Land and primary industrial buildings;
" 1955 " 1966 :	2,130	Machinery, internal means of transportation, motor vehicles, factory and office equipment, office machines, implements and tools;

3. Future Plan:

From 1968 to 1970: 1,860 Expansion of assembly hall
 (US \$ 620,000) and of administration building (US \$ 543,000). Rationalisation of machinery such as co-ordinate table drilling machines, co-ordinate table turning lathes, boring mills (US \$ 697,000). Increase in personnel on 1st shift (+ 120 operatives) and 2nd shift (+ 70 operatives).

1. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

11

Industrial machinery

— (ISIC-Code: 360)

1. Size groups by number of persons employed:		Avg. W. & S. per pers. (US \$)	Avg. gross prod. val/ per pers. (US \$)	Avg. value added/prod. prod. ratio (%)	2. Size groups by annual scale of production (US \$ US \$):		Avg. W. & S. per pers. (US \$)	Avg. gross prod. val/ per pers. (US \$)	Avg. value added/prod. prod. ratio (%)
No. of estab.	No. of empl.				No. of estab.	No. of empl.			
up to 19	1,302	5,536	1,269	51	up to 20	707	995	885	57
20 - 99	262	11,451	1,729	54	20 - 40	276	1,330	1,146	56,667
100 - 499	93	19,966	1,977	8,532	40 - 200	402	5,781	1,435	5,983
500 - 999	9	5,776	2,161	6,460	200 - 400	102	4,198	1,745	6,569
over 1,000	9	12,569	2,022	6,892	400 - 2,000	135	14,177	1,894	7,555
					over 2,000	53	28,717	2,061	8,095
TOTAL:	1,675	55,198	1,885	51	TOTAL:	1,675	55,198	1,885	51

II. SECOND AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service	1	2	3	4
1. Engineering needs	✓			
2. Personnel selection		✓		
3. Technical services			✓	
4. Equipment supply		✓		
5. Management & consultancy			✓	

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service

Supply

Or of

Price of delivery

Number of pages

9

As a rule, the establishment is prepared to employ foreign workers although it will be difficult to supply housing facilities for them.

III. CHALLENGES & HAZARDSRationalisation policy:

Both the straight-line and the accelerated methods are applied.

Contract and commission work:

The establishment tempered, nitroated and ground steel for four companies on commission basis. Total commission received: US \$ 51,000.

On the other hand 5 subcontractors received orders for special processing of large machine parts and descaling of machines. Commissions paid: US \$ 223,000.

Bottlenecks in the plant:

Lack of skilled workers due to presence of other iron and steel processing enterprises in the region.

Long terms of delivery for large castings and special aggregates.

Current problems:

Continuation of the rationalisation programme. Lack of company-owned housing.



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III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service		
1 Reporting study	1 Technical and management personnel	4 Project and export services
2 Financial assistance	2 Personnel	5 Research work
3 Industrial services	3 Technical training	6 Administration of foreign liaison
4 Equipment supply	7 Technical consultancy	
5 Construction & construction		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
1				The company is interested in preparing engineering studies for the production of tin metal containers, heating equipment (radiators, boilers, etc.) and agricultural machinery (medium-sized plants only). Pre-feasibility studies could be supplied rather quickly. Feasibility studies, however, can only be prepared in close co-operation with local experts.
2				Financial assistance could be considered in form of engineering studies.
3				Know-how contracts covering production methods could be signed. Licenses could be provided for the manufacture of agricultural machinery.
4				The company is interested in supplying self-designed machines, i.e. for the manufacturing of cans, radiators, and expanded metal as well as welding machines (especially for CO ₂ and resistance welding).
5				Toolsetters as well as repair and maintenance personnel could be trained either in a special training shop or on-the-job.
6				Agricultural machinery, expanded metals, shovels and spades could be exported to developing countries.

III. SUPPLEMENTARY NOTES

History of investment:

The company belongs to the metal-working industry and consists of 4 plants which manufacture cans, heating radiators, agricultural machinery and rolled products. The company was originally founded in 1890, the reporting branch establishment in 1955.

Depreciation policy: (and VI. VALUE ADDED/No.3 and 9, page 2)

The reporting establishment applies both the straight-line and the accelerated methods of depreciation. Particular emphasis is put on the latter type. For the 1966/67 business year total depreciation amounted to US \$ 189,000 out of which US \$ 139,000 resulted from accelerated depreciation. The loss of US \$ 124,XXX, therefore, does not reflect the actual financial situation of neither the establishment studied nor the entire company which had a profit of US \$ 283,000.

During the past years the company accumulated substantial financial reserves by means of self-financing. In 1967, these reserves were partly converted into equity capital which was doubled.

Inventories policy:

On the average the stock of finished products amounts to 3% of the total value of production.

Major Products: Enamelled copper wire.

Capable of producing annually 1,800 t of enamelled copper wire based on 3-shift operation. Full-capacity output amounts to US \$ 4 million.

Reporting Unit: A one-establishment enterprise; privately owned; founded in 1948; largest electric wire manufacturer in the country; no licensed manufacturing; 50% exports; intensive research activity. Approx. 220 employees. Business year: 1 April 1966 - 31 March 1967.

I. FIXED CAPITAL ASSETS

(End of 1966/67)

	Original purchase value 1000 US \$)	Replace- ment value 1000 US \$)	Ave age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	870	2,575	
- Process equipment	720 (85)	2,400	5
- Hand tools & apparatuses	150	175	-
2. Buildings	265	495	
TOTAL			
- Primary industrial buildings (total floor space: 13,000 m ²)			
- Auxiliary buildings	265	495	8
- Warehouses			
- Office/administration buildings			
- Housing			
3. Auxiliary facilities (excl. buildings)	25	37	
TOTAL			
- Internal power equipment			
- Laboratory facilities			
- Means of transportation	5	8	2.5
- Office equipment	20	29	7
TOTAL PHYSICAL FIXED ASSETS (excluding land)	1,160	3,117	
4. Other fixed capital assets			
TOTAL	20	194	
- Land (total acreage: 30,300 m ²)	15	174	-
- Land improvements			
- Others (incl. intangible assets)	7	19	-

(**) Including self-constructed process equipment which has not been activated.

**W: Details of process equipment and auxiliary equipment operators, etc., are given on Page Three (Section III).

EXTERNAL CONDITIONS

Transport	external long distance	fair
	internal long distance	excellent
	local and city	"
Utilities	electricity	fair
	water	"
	gas	"
Community	residence	fair
	health and recreation	"
	education	"
Own Welfare Facilities	-	

III. INVENTORIES

(End of 1966/67)

	Actual value 1000 US \$)	Number of months
Inventories	390	
TOTAL		
- Production materials	228	2
- Other input materials	18	1
- Work-in-process	-	-
- Finished products	144	0.5

WORKING TIME PER OPERATIVE WORKER

	1st shift	2nd shift	3rd shift	hours
Shift hours/day(*)	7.2	7.0	7.0	hours
Actual hours/year	2,185	2,150	2,150	hours
Actual days/year	305	305	305	days

(*) Actual hours excluding holidays and breaks.

H. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1966/67 monthly average)

	Up to 100 100- 200 200- 300 300- 400 400- 500 500- 600 600- 700 700- 800 800- 900 900- 1000 1000- 1100 1100- 1200 1200- 1300 1300- 1400 1400- 1500 1500- 1600 1600- 1700 1700- 1800 1800- 1900 1900- 2000 2000- 2100 2100- 2200 2200- 2300 2300- 2400 2400- 2500 2500- 2600 2600- 2700 2700- 2800 2800- 2900 2900- 3000 3000- 3100 3100- 3200 3200- 3300 3300- 3400 3400- 3500 3500- 3600 3600- 3700 3700- 3800 3800- 3900 3900- 4000 4000- 4100 4100- 4200 4200- 4300 4300- 4400 4400- 4500 4500- 4600 4600- 4700 4700- 4800 4800- 4900 4900- 5000 5000- 5100 5100- 5200 5200- 5300 5300- 5400 5400- 5500 5500- 5600 5600- 5700 5700- 5800 5800- 5900 5900- 6000 6000- 6100 6100- 6200 6200- 6300 6300- 6400 6400- 6500 6500- 6600 6600- 6700 6700- 6800 6800- 6900 6900- 7000 7000- 7100 7100- 7200 7200- 7300 7300- 7400 7400- 7500 7500- 7600 7600- 7700 7700- 7800 7800- 7900 7900- 8000 8000- 8100 8100- 8200 8200- 8300 8300- 8400 8400- 8500 8500- 8600 8600- 8700 8700- 8800 8800- 8900 8900- 9000 9000- 9100 9100- 9200 9200- 9300 9300- 9400 9400- 9500 9500- 9600 9600- 9700 9700- 9800 9800- 9900 9900- 10000 10000- 10100 10100- 10200 10200- 10300 10300- 10400 10400- 10500 10500- 10600 10600- 10700 10700- 10800 10800- 10900 10900- 11000 11000- 11100 11100- 11200 11200- 11300 11300- 11400 11400- 11500 11500- 11600 11600- 11700 11700- 11800 11800- 11900 11900- 12000 12000- 12100 12100- 12200 12200- 12300 12300- 12400 12400- 12500 12500- 12600 12600- 12700 12700- 12800 12800- 12900 12900- 13000 13000- 13100 13100- 13200 13200- 13300 13300- 13400 13400- 13500 13500- 13600 13600- 13700 13700- 13800 13800- 13900 13900- 14000 14000- 14100 14100- 14200 14200- 14300 14300- 14400 14400- 14500 14500- 14600 14600- 14700 14700- 14800 14800- 14900 14900- 15000 15000- 15100 15100- 15200 15200- 15300 15300- 15400 15400- 15500 15500- 15600 15600- 15700 15700- 15800 15800- 15900 15900- 16000 16000- 16100 16100- 16200 16200- 16300 16300- 16400 16400- 16500 16500- 16600 16600- 16700 16700- 16800 16800- 16900 16900- 17000 17000- 17100 17100- 17200 17200- 17300 17300- 17400 17400- 17500 17500- 17600 17600- 17700 17700- 17800 17800- 17900 17900- 18000 18000- 18100 18100- 18200 18200- 18300 18300- 18400 18400- 18500 18500- 18600 18600- 18700 18700- 18800 18800- 18900 18900- 19000 19000- 19100 19100- 19200 19200- 19300 19300- 19400 19400- 19500 19500- 19600 19600- 19700 19700- 19800 19800- 19900 19900- 20000 20000- 20100 20100- 20200 20200- 20300 20300- 20400 20400- 20500 20500- 20600 20600- 20700 20700- 20800 20800- 20900 20900- 21000 21000- 21100 21100- 21200 21200- 21300 21300- 21400 21400- 21500 21500- 21600 21600- 21700 21700- 21800 21800- 21900 21900- 22000 22000- 22100 22100- 22200 22200- 22300 22300- 22400 22400- 22500 22500- 22600 22600- 22700 22700- 22800 22800- 22900 22900- 23000 23000- 23100 23100- 23200 23200- 23300 23300- 23400 23400- 23500 23500- 23600 23600- 23700 23700- 23800 23800- 23900 23900- 24000 24000- 24100 24100- 24200 24200- 24300 24300- 24400 24400- 24500 24500- 24600 24600- 24700 24700- 24800 24800- 24900 24900- 25000 25000- 25100 25100- 25200 25200- 25300 25300- 25400 25400- 25500 25500- 25600 25600- 25700 25700- 25800 25800- 25900 25900- 26000 26000- 26100 26100- 26200 26200- 26300 26300- 26400 26400- 26500 26500- 26600 26600- 26700 26700- 26800 26800- 26900 26900- 27000 27000- 27100 27100- 27200 27200- 27300 27300- 27400 27400- 27500 27500- 27600 27600- 27700 27700- 27800 27800- 27900 27900- 28000 28000- 28100 28100- 28200 28200- 28300 28300- 28400 28400- 28500 28500- 28600 28600- 28700 28700- 28800 28800- 28900 28900- 29000 29000- 29100 29100- 29200 29200- 29300 29300- 29400 29400- 29500 29500- 29600 29600- 29700 29700- 29800 29800- 29900 29900- 30000 30000- 30100 30100- 30200 30200- 30300 30300- 30400 30400- 30500 30500- 30600 30600- 30700 30700- 30800 30800- 30900 30900- 31000 31000- 31100 31100- 31200 31200- 31300 31300- 31400 31400- 31500 31500- 31600 31600- 31700 31700- 31800 31800- 31900 31900- 32000 32000- 32100 32100- 32200 32200- 32300 32300- 32400 32400- 32500 32500- 32600 32600- 32700 32700- 32800 32800- 32900 32900- 33000 33000- 33100 33100- 33200 33200- 33300 33300- 33400 33400- 33500 33500- 33600 33600- 33700 33700- 33800 33800- 33900 33900- 34000 34000- 34100 34100- 34200 34200- 34300 34300- 34400 34400- 34500 34500- 34600 34600- 34700 34700- 34800 34800- 34900 34900- 35000 35000- 35100 35100- 35200 35200- 35300 35300- 35400 35400- 35500 35500- 35600 35600- 35700 35700- 35800 35800- 35900 35900- 36000 36000- 36100 36100- 36200 36200- 36300 36300- 36400 36400- 36500 36500- 36600 36600- 36700 36700- 36800 36800- 36900 36900- 37000 37000- 37100 37100- 37200 37200- 37300 37300- 37400 37400- 37500 37500- 37600 37600- 37700 37700- 37800 37800- 37900 37900- 38000 38000- 38100 38100- 38200 38200- 38300 38300- 38400 38400- 38500 38500- 38600 38600- 38700 38700- 38800 38800- 38900 38900- 39000 39000- 39100 39100- 39200 39200- 39300 39300- 39400 39400- 39500 39500- 39600 39600- 39700 39700- 39800 39800- 39900 39900- 40000 40000- 40100 40100- 40200 40200- 40300 40300- 40400 40400- 40500 40500- 40600 40600- 40700 40700- 40800 40800- 40900 40900- 41000 41000- 41100 41100- 41200 41200- 41300 41300- 41400 41400- 41500 41500- 41600 41600- 41700 41700- 41800 41800- 41900 41900- 42000 42000- 42100 42100- 42200 42200- 42300 42300- 42400 42400- 42500 42500- 42600 42600- 42700 42700- 42800 42800- 42900 42900- 43000 43000- 43100 43100- 43200 43200- 43300 43300- 43400 43400- 43500 43500- 43600 43600- 43700 43700- 43800 43800- 43900 43900- 44000 44000- 44100 44100- 44200 44200- 44300 44300- 44400 44400- 44500 44500- 44600 44600- 44700 44700- 44800 44800- 44900 44900- 45000 45000- 45100 45100- 45200 45200- 45300 45300- 45400 45400- 45500 45500- 45600 45600- 45700 45700- 45800 45800- 45900 45900- 46000 46000- 46100 46100- 46200 46200- 46300 46300- 46400 46400-<

V. ANNUAL PRODUCTION

(1966/67)	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price on factory basis (000 US \$)	Total output value 1000 US \$
Enamelled copper wires	1948	t	1,119	2,841	3,758
Revenue from commission work (*)	-	t	114	..	254

(*) Copper supplied by customers.

TOTAL VALUE OF PRODUCTION: 4,122

VI. VALUE ADDED

(1966/67)	Total value 1000 US \$
1 Annual wages & salaries	516
- Operative workers	171
- Non-operative workers	145
1 (4) personnel	171
2 Other payments for employees	129
3 Annual depreciation	149
- Machinery & equipment	111
- Buildings & other facilities	28
- Non-physical capital assets	10
4 Rents paid	6
5 Interest & royalties	53
6 Sales tax (*)	50
7 Other indirect business taxes	2
8 (1) Subsidies	2
9 Corporate income before tax	193
(*) Reimbursement of sales tax for exports has been deducted.	193
TOTAL VALUE ADDED	1,713

DESCRIPTION OF MAJOR PRODUCTS:

Enamelled round copper wires for all applications in electrical engineering. Nominal diameters: 0.05 to 12 mm.

(Company produces according to IEC recommendations and to various international standards).

Covering based on synthetic resins. Fine, medium and thick coverings for all thermal classes, quickly solderable, highly resistant to chemicals or high and low temperatures, thermoplastic coating, coloured.

Serial production. Standard types can be delivered immediately, long-term delivery for special types.

MARKET ASPECTS:

Consumers of products:

70% of the output is sold to large-scale enterprises of the electrotechnical industry.

Sales organisation:

Direct selling, representatives and 4 domestic sales depots.

Share in the domestic market:

66%.

Competition in the market:

No serious competition from domestic producers noticeable, but enterprise faces heavy competition from Italy and both price and quality competition from another Central European country and Japan.

EXPORT:

Total annual export: 100 % 1,713

Major products	To Western Europe	To Eastern Europe	To developing countries
Wire	90%	10%	0%

Export prices:

The enterprise has to adjust its export prices to the price levels prevailing in different import countries.

Implementation of export prices:

The different countries have different exchange rates and therefore the enterprise has to calculate the equivalent export prices in each country. The prices indicated under "To developing countries" are indicated under "To developing countries" in local currency.

VII. ANNUAL CONSUMPTION

(1966/67)	Quantity consumed Unit	Quantity Consumed Unit	% import	Average import costs (000 US \$)	Total consumption value 1000 US \$
1. Energy and water					22
TOTAL					22
- Electricity	000 kWh	4,851		54	
- Coke	t	9		0.4	
- Fuel oil	t	4.8		0.1	
- Gas	000 m ³	..		4	
- Water	000 m ³	..		0.4	
2. Production materials					2,034
TOTAL					2,034
- Copper wire (8 mm diameter)	t	1,300	80 (*)	-	1,850
- Synthetic resins	t	160	70	37	184

(*) Imported by a copper-smelting plant

	Total consumption value 1000 US \$
3. Other materials & supplies	265
TOTAL	265
- Packaging material (fibre, containers, cans, cartons)	257
- Parts, supplies & services	2
- Other materials & supplies	6
4. Business services purchased	511
TOTAL	511
- Transportation, storage & insurance	209
- Communication, advertising & other business services	302
5. Work performed by subcontractors	-
TOTAL	-
TOTAL VALUE OF CONSUMPTION:	2,869

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (B.1.)

	Number	Digital Position Value 1000 US \$	Analogue Position Value 1000 US \$	Ave. Avg. Prod.	Supplier Country	Total output 1000 t/yr (*)	Daily running time
Wire drawing machines	62	599.8	774.0	4	70% Fed. Rep. 10% Dem. 10% Germany	1,900 t/yr (*)	16 - 24 hrs
Pot-core coiling machines	4	-	13.5	3	90		
Spool coiling machines	12	27.8	3.9	5			
Enamelling furnaces	19	-	1,470.6	5	30		
Others	..	96.7	112.1	8			

(*) Output of each wire drawing machine depends upon diameter of wire.

CAPACITY POWER

Process equipment

electric motors

kW - 1,000

Generating equipment

installed capacity

kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS

Major primary operative shops	Kind of process involved	Number	Automation	Automation	
				C	D
Wire drawing department	Diamond drawing	B	III	Diameters ranging from 4.00 - 0.003 mm	
Enamelling department	See page 4-XII - Supplements	A	II		
Ceiling department		C	III	After leaving the enamelling furnace the wire is either put on reels or on pot-core coils for shipment. Since only some wires require rewinding, the ceiling department can operate on 2 shifts as against 3 shifts which would be normal.	

CAPACITY UTILIZATION

Full capacity output

US \$ 8,500,000

Current utilization:

Major products for processing	Approximate %							
	W	30	40	50	60	70	80	90
Wire drawing department (3 shifts)	x							
Enamelling department (3 shifts)	x							
Ceiling department (2 shifts)	x							

Since the company is operating already at full-capacity producing copper wires worth US \$ 4,000,000, the above-mentioned full-capacity output could only be reached if the existing machinery and equipment could be expanded which actually is anticipated for the 1968-1972 period.

IX. HISTORY & PLAN

1. Performance in the past

Year	Total output 1000 US \$	No. of persons employed	Total exports 1000 US \$
1963	1,510	166	310
1964	2,240	176	590
1965	2,830	197 (*)	900
1966	4,160	215 (*)	1,810
1967	4,520	237	2,040
1968			

(*) referring to calendar year.

2. Investments in the past

From 1965 to 1968 :	Approximate amount 1000 US \$	Type of investment
1968 :	310	Primary industrial building and machinery

3. Future Plan

From 1968 to 1972 :	Approximate amount 1000 US \$	Expansion of machinery and equipment, rationalisation of auxiliary production facilities;
1,160		Another 50 skilled operatives and 15 non-operatives will have to be employed on the 1st shift.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

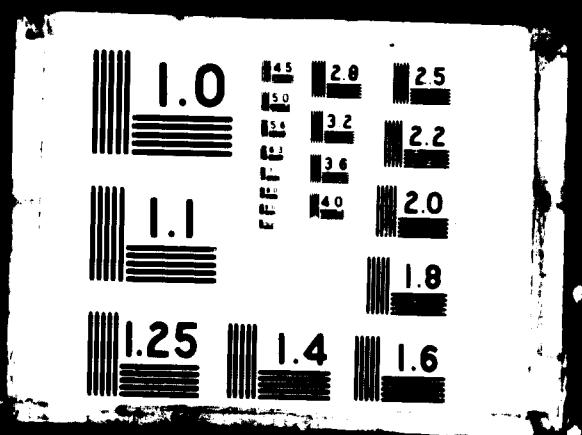
2 - confidential; figures of those size groups are included in those underlined.

(1964) Manufacture of metal products excl.
Industry machinery and transport equipment

(ISIC Code 350 - 1)

1. Size groups by number of persons employed:	No. of estab.	No. of empl.	Av. W. &. S. per pers. 1000 US \$	Av. gross prod. val/ per pers. 1000 US \$	Av. value added/gross prod. ratio 1000 US \$	2. Size groups by no. of units of pro. activities	
						No. of estab.	No. of empl.
up to 19	100	312	1,103	7,247	51	up to 20	65
20 - 99	21	878	1,652	7,648	50	20 - 40	16
100 - 499	9	4,255	2,148	8,969	45	40 - 200	26
500 - 999	2	0	0	0	0	200 - 400	10
over 1,000	1	0	0	0	0	400 - 2,000	10
						over 2,000	6
TOTAL	133	5,445	1,941	8,657	46	TOTAL	133

10 OF 11
02919



Major Products:

Universal machine tools, woodworking machines, lathes chuck, hardness testing devices.
Capable of producing annually US \$ 3,87 million on 2-shift operation.

Reporting Unit:

A branch of a centralized multi-establishment enterprises founded in 1952. Production started in the same year; the break-even point was reached in 1953 with sales, surpassing US \$ 1.35 million. Privately owned. High rate of exports. Own research facilities, 3% of sales revenue is devoted to research and development. 350 employees.

I. FIXED CAPITAL ASSETS

	Original purchase value (1968 US \$)	Replace- ment value (1968 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)	956	428 (**)	
TOTAL	856	428	8
- Process equipment *	-	-	-
- Hand tools & apparatuses	-	-	-
2. Buildings	743	1,064	
TOTAL	512	658	8
- Primary industrial buildings (total floor space: - m ²)	16	160	8
- Auxiliary buildings	8	10	8
- Warehouses	139	174	1
- Office administration buildings	48	62	5
- Housing	-	-	-
3. Auxiliary facilities (excl. buildings)	72	32 (**)	
TOTAL	-	-	-
- Internal power equipment	-	-	-
- Laboratory facilities	5	3	5
- Means of transportation	34	12	5
- Office equipment	33	17	1
TOTAL PHYSICAL FIXED ASSETS (excluding land):	1,671	1,524	
4. Other fixed capital assets	36	160	
TOTAL	36	160	
- Land (total acreage: 13,822 m ²)	16	160	
- Land improvements	-	-	-
- Others	-	-	-

(**) Depreciated book value as of 1968.

*See Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	excellent
	internal long distance	"
	local and city	fair
Utilities:	electricity	fair
	water	"
	gas	"
Community:	residence	fair
	health and recreation	"
	education	"
Own Welfare Facilities:	canteen, sports-field, housing	

III. INVENTORIES

	Actual value (1968 US \$)	Number of months
Inventories	913	
TOTAL:		
- Production materials	236	2
- Other input materials	19	2
- Work-in-process	387	1
- Finished products	271	1

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
- Shift hours/day:	9	9	-	hours
- Actual hours/year	2,304	2,304	-	hours
- Actual days/year	257	257	-	days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

	up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 560 US\$	over 560 US\$
1. Local non-operatives	-	-	-	-	1	3
- Managers	-	-	-	3	5	-
- Engineers	-	2	1	8	1	-
- Technicians	-	2	-	3	-	-
- Accountants	-	-	-	-	5	-
- Sales officers	-	-	-	-	5	-
- Clerks and typists	-	17	16	12	1	-
2. Local operatives	-	-	-	2	8	-
- Supervisors	-	-	-	15	-	-
- Foremen	-	-	-	36	-	-
- Skilled operatives	-	-	143	-	-	-
- Machine operators	-	-	12	-	-	-
- Craftsmen	-	-	3	-	-	-
- Truck drivers	-	-	-	-	-	-
- Unskilled operatives	-	15	-	-	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees	-	-	-	-	-	-
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	37	1	1	-	-
- Unskilled operatives	-	-	-	-	-	-

IV. MANNING TABLE

(Number of persons)

Skill categories: A. Supervisory staff and foremen (for all shifts)
B. Skilled operatives
C. Semi-skilled operatives (machine operators)
D. Unskilled operatives

	Total	A	B	C	D	2nd shift	3rd shift
ALL SHOPS & UNITS:	353	96	-	231	-	26	-
1. Primary operative shops	211	24	36	126	-	25	-
- Production programming	2	2	-	-	-	-	-
- Hardware testing section	6	1	4	1	-	-	-
- Turning shop	44	9	-	26	-	10	-
- Milling shop	41	7	-	29	-	5	-
- Drilling shop	22	1	-	17	-	4	-
- Tool shop	30	1	27	1	-	1	-
- Assembly	28	2	-	26	-	-	-
- Annealing shop	4	-	-	4	-	-	-
- Grinding shop	26	2	-	20	-	4	-
- Painting	8	-	5	2	-	1	-
2. Auxiliary operative units	75	5	-	69	-	1	-
- Repair & maintenance	5	1	-	3	-	-	-
- Mechanical shop	-	-	-	-	-	-	-
- Tooling shop	-	-	-	-	-	-	-
- Utilities control	34	3	-	31	-	-	-
- Production & material storage	15	1	-	14	-	-	-
- Off-site transport	6	-	-	6	-	-	-
- Guards, cleaners, etc.	15	-	-	15	-	-	-
3. Auxiliary no.-operative units	67	67	-	-	-	-	-
- Production management	3	3	-	-	-	-	-
- Research & development (*)	16	16	-	-	-	-	-
- Sales unit	19	19	-	-	-	-	-
- Accounting	27	27	-	-	-	-	-
- General administration	2	2	-	-	-	-	-

(*) Mostly for machine designs

V. ANNUAL PRODUCTION

(1967)	Vr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (1000 US \$)
Ball supports and ball cages	1909	000 pcs	54,816	..	1,762
Standard ball bearings and roller bearings	1940	" "	1,026	..	451
Steering wheel spindle-cup & cone bearings	1950	" "	5,315	..	1,313
Ball boxes and shafts	1959	" "	273	..	1,339
Stamped metal parts	1924	" "	29,742	..	789
Rings	1950	" "	10,279	..	424
Plastic parts	1964	" "	3,747	..	371
Tread rollers	1955	" "	419	..	66
Tubs and wheels	1913	" "	208	..	132
Pools	1928	" "	1	..	210

TOTAL VALUE OF PRODUCTION: 6,870

VI. VALUE ADDED

(1967)	Total value (1000 US \$)
1. Annual wages & salaries	2,184
- Operative workers	1,920
- personnel	..
- Non-operative workers	664
- personnel	..
1. 727	..
2. Other payments for employees	431
3. Annual depreciation	533
- Machinery & equipment	371
- Buildings & other facilities	119
- Non-physical capital assets	14
4. Rents paid	22
5. Interest & royalties	313
6. Sales tax	223
7. Other indirect business taxes	162
8. (-) Subsidies	..
9. Corporate income before tax	511

TOTAL VALUE ADDED: 1,464

DESCRIPTION OF MAJOR PRODUCTS:

No details available.

MARKET ASPECTS:

Consumers of products:

Automobile, bicycle, electrical and agricultural machinery industry; manufacturers of wheels and rollers, conveying equipment, household equipment, building machines.

Sales organisation:

Domestic as well as foreign market: representatives.

EXPORT:

Total annual export: US \$ 1,270,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Ball boxes	100%	-	-
Shafts	100%	-	-
Roller bearings	99%	1%	-
Rings	95%	1%	4%
Ball supports K,P,S	25%	-	5%
Ball supports C,G,L	13%	-	7%
Cone bearings	100%	-	-

Export price policy:

Adjustment to world market prices.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity	Average import duties	Total consumption value (1000 US \$)
1. Energy and water				
TOTAL:				143
- Electricity	000 kWh	2,491	-	51
- Solid fuels	t	900	-	25
- Liquid fuels	t	165	-	4
- Gas	t	980	-	26
- Water	t	47	-	7
2. Production materials				
TOTAL:				1,739
- Strip iron	..	-	-	561
- Precision-steel tubes	..	-	-	113
- Free-cutting steel	..	-	-	59
- Plastics	..	-	-	70
- Tool-steel	..	-	-	28
- Balls	..	-	-	438
- Purchased parts	..	-	-	265
- Double-Duro hardened steel	..	-	-	50
- Others	..	-	-	155

3. Other materials & supplies

TOTAL:	238
- Packaging material (boxes, wooden frames, cartons)	23
- Parts, supplies & services	161
- Other materials & supplies	54

4. Business services purchased

TOTAL:	189
- Transportation, storage & insurance	70
- Communication, advertising & other business services	119

5. Work performed by subcontractors

TOTAL:	97
TOTAL VALUE OF CONSUMPTION:	2,406

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1):

	Number	Original purchase value 1960 US \$	Replace- ment value 1960 US \$	Ave. Age (yrs)	Remarks	Supplier country	Year of instal- lation	Daily running time	Capacity output
Double-column revolving presses (up to 100 t)	23			10		Germany, F.R.	1966	16 hrs	30,000 units/day
Bent-lever embossing presses (up to 400 t)	14			10		Germany, F.R.	1966	14 hrs	20,000 units/day
Double-column eccentric presses (up to 300 t)	8			4		Germany, F.R.	1966	16 hrs	18,000 units/day
One-column eccentric presses	60			6		-	-	-	-
High speed presses	3			6		Germany, F.R.	1962	3 hrs	3,000 units/day
6-spindle automatic chucking machine	1		5,750	3		Germany, F.R.	1963	12 hrs	3,600 units/day
4-spindle automatic chucking machine	1			4	incl. hand tools and apparatuses	Sweden	1963	2 hrs	1,200 units/day
Single spindle automatic chucking machines	16			3		Germany, F.R.	1965	12 hrs	..
Borehole grinding machines	14			3		Germany, F.R.	1967	10 hrs	..
Centerless grinding machines	6			3		Switzerland	1967	16 hrs	..
Screw-injection machine, plunger-die casting machine, miscellaneous spraying equipment for plastic	30			2					
Spark erosion machines	3			14					
Turning machines	24			27					
Planning and slotting machines	7			16					
Milling cutter	18			14					
Shapers and saws	4			17					
Circular grinding machines	15			2					
Drillers	17								

CAPACITY POWER:

Process equipment:

electric motors kW 1,500

Generating equipment:

installed capacity kVA 7

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	No utilization:		C moderate standard	D apparently short of today's standard	E almost crowded	Automation:
		A most advanced	B considerably high standard				
Tool shop		A	II				I fully automated
Noncutting metal processing department		B	II				II semi-automated
Cutting metal processing department		A	II				
Plastic processing department		A	II				

CAPACITY UTILIZATION:

Full-capacity output: US \$ 8,100,000

Current utilization: based on 2- and 3-shift operation.

Appropriate %
60 65 70 75 80 85 90 95 100

Major products for treatment

Ball supports and ball cages	x
Standard ball bearings and roller bearings	x
Ball boxes	x
Rings	x
Tread rollers	x
Hubs and wheels	x
Plastic parts	x

Under-utilization of capacity due to substantial decrease of demand in reporting year.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
1963	5,790	393	1,050
1964	6,530	929	1,020
1965	7,750	999	1,190
1966	7,350	1,033	1,590
1967	6,970	917	1,270
1968	7,140	963	1,570

2. Investments in the past:

Approximate amount 1960 US \$	Type of investment
From 1960 to 1965: 1,250	Construction of a branch factory

3. Future Plan:

From 1969 to 1971: 1,570 Nationalization of machinery and other process equipment, purchase of auxiliary equipment, expansion of welfare facilities. Labour requirements 1st shift: 17 non-operatives, approximately 50 skilled operatives and 12 unskilled operatives. 2nd shift: 6 non-operatives, approximately 3 skilled operatives and 7 unskilled operatives.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; these figures are included in total.

(1962) Manufacture of machinery, except

Industry electrical machinery

(ISIC-Code: 360)

1. Size groups by number of persons employed	No. of empl.	No. of empl.	Ave. W.S.S. per pers. 1960 US \$	Ave. sales per pers. 1960 US \$	Ave. sales ratio (W)	2. Size groups by annual sales of	No. of empl.	No. of empl.	Ave. W.S.S. per pers. 1960 US \$	Ave. sales per pers. 1960 US \$	Ave. sales ratio (W)
up to 19	1,981	14,597	7,098	7,098	62	up to 500	3,625	83,636	650	5,932	6
20 - 99	2,071	132,273	1,315	7,305	59	500 - 1,250	992	113,370	"	6,368	6
100 - 499	1,313	289,759	2,590	7,961	57	1,250 - 2,500	474	111,027	"	7,575	58
500 - 999	200	135,237	2,043	5,421	55	2,500 - 12,500	538	332,330	2,138	8,296	55
over 1,000	184	571,100	2,139	8,494	52	12,500 - 25,000	66	138,588	2,121	8,297	53
						over 25,000	45	329,007	2,195	9,371	50
TOTAL:	5,749	1,112,958	2,041	8,213	54	TOTAL:	5,743	1,112,958	2,033	8,219	54

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services:	Field of industry:	Description of projects:
1 Engineering aids	1 Technical and managerial personnel	1 Import and export transaction
2 Financial assistance	2 Industrial training	2 Assistance in the field of technology
3 Industrial equipment	3 Equipment supplies	3 Technical consultancy
4 Equipment supplies Installation & maintenance	4 Installation & maintenance	4 Service

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects
2				Company is willing to finance industrial projects.
3				Know-how and license agreements could be signed.

XII. SUPPLEMENTS & NOTES

Contract and commission work:

Turned parts and other construction elements were manufactured by two subcontractors. The commission paid amounted to US \$ 17,000.

Major bottlenecks in the past:

Lack of production capacities as well as of personnel.

Current problems:

Lack of skilled personnel; difficulties in material supply.

Inventories policy:

On the average the value of finished products on stock amounts to about 7% of the total value of production.

Depreciation policy:

The company basically applied the declining balance method. However, in the case of buildings and office equipment the accelerated method was applied as well.

Training courses:

Managerial staff participated in courses and seminars dealing with data processing and cost accounting.

Major Products: Plastic insulated electrical cables.
Capable of producing annually approximately 9,300 million metres of cables on one-shift operation.

Reporting Unit: A one-establishment, privately owned enterprise. Founded in 1965; no foreign capital participation; construction of the factory was started in 1967; trial as well as commercial production began in 1966; the first profits were made in 1968, when the production value amounted to approximately US \$ 2 million. No exports.

I. FIXED CAPITAL ASSETS				II. MONTHLY GROSS WAGES AND SALARIES (Number of persons)					
(End of 1968)				(1968 monthly average)					
	Original purchase value (000 US \$)	Book value (000 US \$)	Av age (Yrs)	up to 60 US\$	60-80 US\$	80-130 US\$	130-190 US\$	190-250 US\$	over 250 US\$
1. Primary process equipment (including installation cost)									
TOTAL	1,112	831	..	-	-	-	-	-	4
- Process equipment	1,112	831	..	-	-	-	-	-	-
- Hand tools & apparatuses	1	2	..	-	-	-	-	-	-
2. Buildings									
TOTAL	2,444	216	2.5	-	-	-	-	-	-
- Primary industrial buildings	2,444	216	2.5	-	-	-	-	-	-
- Total floor spaces	1,112	831	2.5	-	-	-	-	-	-
- Auxiliary buildings	43	39	2.5	-	-	-	-	-	-
- Warehouses (2,000 m ²)	21	19	2.5	-	-	-	-	-	-
- Office/administration buildings	17	15	2.5	-	-	-	-	-	-
- Housing (2,000 m ²)	7	5	2.5	-	-	-	-	-	-
3. Auxiliary facilities (excl. buildings)									
TOTAL	41	4	..	-	-	-	-	-	-
Internal power equipment	41	4	..	-	-	-	-	-	-
Laboratory facilities	1	1	..	-	-	-	-	-	-
Means of transportation	1	1	..	-	-	-	-	-	-
Office equipment	21	13	..	-	-	-	-	-	-
TOTAL PHYSICAL FIXED ASSETS (excluding land)	3,595	1,151	..	-	-	-	-	-	-
		replacement value (000 US \$)							
4. Other fixed capital assets									
TOTAL	3	0.6	..	-	-	-	-	-	-
- Land (total acreage 100 m ²)	3	0.6	..	-	-	-	-	-	-
- Land improvements	-	-	-	-	-	-	-	-	-
- Others	-	-	-	-	-	-	-	-	-
*NB: Details of process equipment and details of primary operative shops are given on Page Three (Section III).									
EXTERNAL CONDITIONS:				IV. MANNING TABLE (Number of persons)					
				Total					
				A	B	C	D	E-D	E-D
Transport	external long distance	fair							
	internal long distance	fair							
	local and city	fair							
Utilities	electricity	poor							
	water	fair							
	gas	fair							
Community	residence	fair							
	health and recreation	fair							
	education	fair							
Own Welfare Facilities	-	-							
* Irregular supply of electricity - problem yet to be solved.									
III. INVENTORIES				IV. MANNING TABLE (Number of persons)					
(End of 1968)				Total					
				A	B	C	D	E-D	E-D
Inventories	Actual value (000 US \$)	Number of months							
TOTAL	361								
- Production materials	201								
- Other input materials	8								
- Work-in-process	-								
- Finished products	432								
(See XII. for liquid assets and desired working capital.)									
WORKING TIME PER OPERATIVE WORKER:				IV. MANNING TABLE (Number of persons)					
				Total	1st Shift	2nd Shift	3rd Shift	hours	hours
1st shift	8	-	-	hours	hours	hours	days	days	days
Shift hours/day	8	-	-	hours	hours	hours	days	days	days
Average hours/yr:	2,320	-	-	hours	hours	hours	days	days	days
Normal days/years:	290	-	-	hours	hours	hours	days	days	days

V. ANNUAL PRODUCTION

(1968) Products for group of products	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (000 US \$)
Plastic insulated cable (N.Y.Y.)	1966	km	1,608	901.6	1,470
Plastic insulated cable (N.Y.M.)	1966	km	1,723	242.9	418
Plastic insulated cable (N.Y.A.)	1966	km	3,551	31.7	112
Plastic insulated cable (N.Y.B.)	1966	km	8	670.0	5

TOTAL VALUE OF PRODUCTION: 1,486

VI. VALUE ADDED

(1968)	Total value (000 US \$)
1. Annual wages & salaries	1,474
- Operative workers	1,474
- % personal	—
- Non-operative workers	—
- % personal	—
2. Other payments for employees	—
3. Annual depreciation	101
- Machinery & equipment	101
- Buildings & other facilities	—
- Non-physical capital assets	—
4. Rentals paid	—
5. Interest & royalties	—
6. Sales tax	44
7. Other indirect business taxes	—
8. I.T. Subsidies	2
9. Corporate income before tax	1,474

TOTAL VALUE ADDED: 1,474

DESCRIPTION OF MAJOR PRODUCTS:

Plastic insulated cables with profiles of 5% and 24 mm²; serial production; quality controlled by a fully automatic

technique and standard. Prompt delivery: sales to the government for main and to the other consumers on a monthly
instalment basis.

MARKET ASPECTS:

Consumers of products:

Cable laying firms.

Sales organization:

Sales agencies, wholesalers and own representatives.

Extent of the market:

Markets throughout the country.

Competition in the market:

No domestic competition, but competition with similar foreign products, which are imported at a low price.

Prospects of exports:

The quality of the products is believed to readily meet the international standards for exports. But no specific prospects so far; shipment can be a problem.

EXPORT:

Total annual export

Major products	To Western countries	To Eastern countries	To Developing countries

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed Unit	Quantity	Average import duties (000 US \$)	Total consumption value (000 US \$)
1. Energy and water				
TOTAL				21
- Electricity	000 kWh	857		17
- Petroleum	000 l	128		4
2. Production materials				
TOTAL				1,502
- Electric copper wire (5.6")	t	785	100	15
- Plastic P.V.C.	t	897		465
- Others	..	..		20

* Exempted from custom duties.

	Average import duties (000 US \$)	Total consumption value (000 US \$)
3. Other materials & supplies	—	94
TOTAL		94
- Packaging material		51
- Parts, supplies & services		23
- Other materials & supplies		23
4. Business services purchased		31
TOTAL		31
- Transportation, storage & insurance		14
- Communication, advertising & other business services		17
5. Work performed by subcontractors		7
TOTAL		7

TOTAL VALUE OF CONSUMPTION: 1,614

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VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (0.1.)

	Number	Original Purchase Value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. Age (yrs)	Remarks	Further details:
Copper floatation machine	1					
Machine for electrolysis	1					Machines are supplied mostly
Welding machines	3					by DR, Fed.Rep. of Germany,
Wire drawing machine	1					Switzerland and Belgium.
Steel chambers (cleaning and heating/ treatment)	2					
Twisting machine	3					
Extruders	3					
Rolling drums	3					
Wire packing machines	2					

CAPACITY POWER:

Process equipment:

electric motors kW

Generating equipment:

installed capacity kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS

Major primary operative shops	Kind of process involved	Mechanization:	Moderate standard		Automation:
			I: most advanced	II: appreciably short of today's standard	
			Modern	Automatized	I: fully automated II: semi-automated III: non-automated

All workshops can be considered as being fully mechanized
and partly automated.

CAPACITY UTILIZATION

Full capacity output

Current utilization

Major products (or processes)

up to 30 40 50 60 70 80 90 100

All products

Under-utilization is due to lack of demand. Demand is low due to the large stock of foreign products in the market and imports from East European countries; in winter demand is even less. For full capacity utilization would use additional 72 workers.

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963
1964
1965
1966 (2 months only)
1967
1968

Total output
(1000 US \$)No. of
persons
employedTotal exports
(1000 US \$)

2. Investments in the past:

Approximate
amount
(1000 US \$)

Type of investment

3. Future Plan:

From 1969 to 1971: 7,520 Replacement investment for primary production facilities except process machinery and equipment. New additions as well as technological improvements of product-mix, production, administrative and welfare facilities. Additional 200 primary and 50 auxiliary operatives as well as 20 persons for management and administration will then be employed.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1967)

Industry

(ISIC-Code:)

1. Size groups by number
of persons employed:
up toNo. of
estab.
No. of
empl.Av.
W. & S.
per pers.
(US \$)Av. gross
prod. val./
per pers.
(US \$)Av. value
added/gross
prod. ratio
(%)2. Size groups by
annual scale of
production
(1000 US \$):
up toNo. of
estab.
No. of
empl.Av.
W. & S.
per pers.
(US \$)Av. gross
prod. val./
per pers.
(US \$)Av. value
added/gross
prod. ratio
(%)

In the industry producing wires and cables, there are two other firms; one of them is small in size (employing less than 7 persons); the other has a different product-mix and is not quite comparable to this case.

TOTAL

TOTAL

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services:
- 1. Engineering study
 - 2. Proc. of assistance
 - 3. Industrial services
 - 4. Equipment supply
 - 5. Technical and managerial personnel
 - 6. Technical training
 - 7. Technical consulting, installation & maintenance
 - 8. Import and export transaction
 - 9. Administration of foreign labour
 - 10. Administration of foreign labour

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

XII. SUPPLEMENTS & NOTES

Contract and commission work:

US \$ 6,770 were paid to practically independent subcontractors for commission work. The contract was based on short-term agreements.

Depreciation policy:

The depreciation rates are fixed annually by the Ministry of Finance and are as follows: Machinery and buildings 10%, office equipment 6%, instruments 2% and transportation equipment 3%.

Governmental policies:

Exemption from customs duty as well as from commercial tax for machinery; exemption from customs duty for raw materials (copper wire) up to the amount of production capacity; 50% exemption from income tax for 5 years. But the invasion of low-price imports of similar nature in the domestic market has been a checking factor.

Training:

Lack of skilled operatives used to be a bottleneck, but five operatives who had been trained abroad have already returned and are providing on-the-job training in the factory.

Liquid assets (average):	Value in 000 US \$
- Cash on hand and in bank	55
- Marketable securities and bonds	-
- Accounts receivable from delivery of goods and services	332
- Other accounts receivable	5
- Pre-paid expenses	152
Total average liquid assets	544

Desired working capital:	Value in 000 US \$	Equivalent no. of months
- Production materials	413	5
- Other materials and supplies	34	5
- Finished products	462	5
- Wages for primary operative workers	41	5
- Other wages and salaries	26	5
- Training costs	-	-
- Administrative costs, sales costs and contingencies	53	5
- Other special items	22	2
Total desired working capital	1,055	5

Major Products: Television and radio sets and gramophones.

Capable of producing about 15,500 television sets, 42,000 radio sets and 2,300 gramophones based on one-shift operation. Full-capacity output being approximately equal to the actual annual output, amounting to US \$ 5.2 million.

Reporting Unit: A one-establishment enterprise, privately owned. Founded in 1960. No foreign capital participation. The construction of the factory started in 1962; trial and commercial production was started in 1963. The break-even point was surpassed for the first time in 1964 at an annual output of US \$ 1.7 million. The establishment is located within the capital city. No exports. No possibilities for merging with other companies.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (1000 US \$)	Replace ment value (1000 US \$)	Ave age (Yrs.)
1 Primary process equipment (including installation cost)	687	471	1
TOTAL	687	471	1
- Process equipment *	-	-	2
- Hand tools & apparatus	-	-	-
2 Buildings	697	547	1
TOTAL	697	547	1
- Primary industrial buildings	392	291	1
- Total floor spaces (sq.m.)	1,489	1,489	1
- Auxiliary buildings	17	17	1
- Warehouses	9	14	1
- Office administration buildings	1	1	1
Housing	1	1	1
3 Auxiliary facilities (excl. buildings)	149	111	1
TOTAL	149	111	1
- Internal power equipment	6	6	2
- Laboratory facilities	1	1	-
- Means of transportation	10	12	4
- Office equipment	10	14	5
TOTAL PHYSICAL FIXED ASSETS (excluding land)	1,534	844	1
4 Other fixed capital assets	1	1	1
TOTAL	1	1	1
- Land (total acreage: 1.000 m²)	1	1	1
- Land improvements	-	-	-
- Others	-	-	-

* Book value after depreciation.

** N.B. Details of process equipment and details of auxiliary operative units are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport	external long distance	fair
	internal long distance	fair
	local and city	excellent
Utilities	electricity	fair
	water	fair
	gas	fair
Community	residence	excellent
	health and recreation	fair
	education	fair
Own Welfare Facilities	-	-

III. INVENTORIES

(End of 1968)

	Actual value (1000 US \$)	Number of months
Inventories	1,127	-
TOTAL	1,127	..
- Production materials	118	..
- Other input materials	13	..
- Work-in-process	115	..
- Finished products	898	..

(See XII. Supplemental)

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	..	..	hours
Average hours/yr:	2,130	..	..	hours
Normal days/year:	240	..	..	days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

	up to 60 US\$	60- 130 US\$	130- 200 US\$	200- 295 US\$	over 295 US\$
--	---------------------	--------------------	---------------------	---------------------	---------------------

1. Local non operatives

- Managers	-	-	-	-	1
- Engineers	-	-	-	10	12
- Technicians	-	-	-	-	-
- Accountants	-	-	2	2	-
- Sales officers	-	-	-	-	-
- Clerks and typists	-	4	-	-	-
- Others	6	3	2	-	-

2. Local operatives

- Supervisors	-	-	1	2	-
- Foremen	-	15	10	6	-
- Key-machine operators	16	16	-	-	-
- Machine operators	-	-	-	-	-
- Craftsmen	2	2	10	-	-
- Truck drivers	-	4	-	-	-
- Unskilled operatives	12	11	-	-	-
- Other full-time operatives	206	41	-	-	-
- Part-time operatives	-	-	-	-	-
- Other operatives	56	50	2	1	-

3. Foreign employees

- Managerial staff	-	-	-	-	3
- Technical staff	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-

IV. MANNING TABLE

(number of persons)

(1968 Average)

	Total	1st Shift	2nd Shift	3rd Shift
--	-------	-----------	-----------	-----------

ALL SHOPS & UNITS:

697	79	618	-
-----	----	-----	---

1. Primary operative shops

Carpentry shop	122	6	113	4	-
Cabinet manufacturing shop	19	4	13	2	-
Loud speaker shop	13	3	10	-	-
Coil manufacturing shop	72	2	68	2	-
Plating shop	21	1	19	1	-
Moulding shop	37	2	33	2	-
Pressing shop	35	2	41	2	-
Plastic manufacturing shop	13	2	11	-	-
Printing shop	11	2	9	-	-
Radio and testing machine assembling	66	6	60	-	-
Television and testing machine assembling	52	5	47	-	-

2. Auxiliary operative units

Repair & maintenance	22	1	21	-	-
Mechanical shop	-	-	-	-	-
Tooling shop	-	-	-	-	-
Utilities control	-	-	-	-	-
Product & material storage	20	1	25	-	-
Off-site transport	-	-	-	-	-
Guards, cleaners, etc.	34	-	32	-	-
Other units	14	1	13	-	-

3. Auxiliary non-operative units

Production management	1	4	-	-	-
Research & development	2	1	1	-	-
Sales unit	2	1	1	-	-
Accounting	4	2	2	-	-
General administration	25	3	22	-	-
Other units	31	27	4	-	-

V. ANNUAL PRODUCTION

(1968)

Products (or group of products)

Yr of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (1000 US \$)
-------------------------	---------------------------	----------	---	--

Television (24" and 25")

1963 sets 11,430 221-277 4,862

Television (19")

1967 sets 1,600 117 647

Transistor radio

1963 sets 3,774 122 691

Radio

1964 sets 739 13 99

Car radio

1967 sets 4,486 19 83

Radio phonograph

1967 sets 1,929 14 28

TV phonograph

1967 sets 1,96 14 14

TOTAL VALUE OF PRODUCTION: 5,174

DESCRIPTION OF MAJOR PRODUCTS:

Television, radio sets and phonographs meet international standards.

There is a heavy demand for television and radio sets all over the country. The raw parts for television sets are imported from Federal Republic of Germany, and Japan; delivery within 1 to 2 months. Other parts, glass, plastic, fibre parts and wire, etc., are manufactured locally. Delivery requires 1 to 2 days. Lead time,

MARKET ASPECTS:

Consumers of products:

Private persons.

Sales organisation:

Sales representatives and intensive advertising.

Share in the domestic market:

25%.

Competition in the market:

No competition with imported goods, since importation is prohibited.

VI. VALUE ADDED

(1968)

	Total value (1000 US \$)
1. Annual wages & salaries	11
- Operative workers	11
- Non-operative workers	11
2. Other payments for employees	11
3. Annual depreciation	11
- Machinery & equipment	11
- Buildings & other facilities	11
- Non-physical capital assets	11
4. Rents paid	11
5. Interest & royalties	11
6. Sales tax	11
7. Other indirect business taxes	11
8. (+) Subsidies	11
9. Corporate income before tax	11

TOTAL VALUE ADDED 11

EXPORT:
Total annual export: None.

Major products	To Western countries	To Eastern countries	To Developing countries

Imports of exports:

Under the present law no foreign export could be possible only with government permission.

Availability of imported materials:

Spare parts are new or parts for new production to be imported need 6 to 12 months advance order.

VII. ANNUAL CONSUMPTION

(1968)

1. Energy and water

TOTAL

	Quantity consumed Unit	Quantity	% import	Average import duties (US \$)	Total consumption value (1000 US \$)
- Electricity	000 kWh	618	-	-	19
- Liquid fuels and lubricants	000 l	197	-	-	12
- Water	000 m³	9.2	-	-	6

2. Production materials

TOTAL

	Series	Quantity consumed Unit	Quantity	% import	Average import duties (US \$)	Total consumption value (1000 US \$)
- Television parts		16,155	100	526	1,526	1,526
- Transistor radio parts		36,974	100	124	427	427
- Car radio parts		4,460	100	28	106	106
- Radio parts		738	100	8	20	20
- Gram. radio parts		1,325	100	17	82	82
- Wooden cabinet parts		16,155	-	-	1,365	1,365
- Plastic parts		16,155	100	13	18	18
- Fibre parts		16,155	100	18	17	17
- Cable parts		16,155	100	17	64	64
- Tin and others		16,155	100	-	237	237
- Other radio parts and others		16,155	100	-	-	-

3. Other materials & supplies

TOTAL

	Total consumption value (1000 US \$)
- Packaging material (Wooden boxes, etc.)	47
- Parts, supplies & services	1
- Other materials & supplies	28

4. Business services purchased

TOTAL

	Total consumption value (1000 US \$)
- Transportation, storage & insurance	106
- Communication, advertising & other business services	54

5. Work performed by subcontractors

TOTAL

	Total consumption value (1000 US \$)
	-

TOTAL VALUE OF CONSUMPTION 4,161

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1.)	Number	Original Purchase Value 1000 US \$	Book value 1000 US \$	Av. age (yr)	Source		Further details
					Att. Purchased second-hand	Ob. Obsolete	
Television assembly machines	..	48	25	5			
Radio assembly machines	..	38	25	5			
Cutting machines	..	134	119	1			
Plastic manufacturing machines	..	52	47	1			
Television cabinet making machines	..	124	116	1			
Radio cabinet making machines	..	65	33	4			
Galvanizing machines	..	15	12	1			
Coil making machines	..	7	6	1			
Printing machines	..	13	12	1			
Common type of machines and equipment	..	88	74	4			

Supplier countries for specialized machines are: P.R. China, U.S.S.R., Germany, Japan, Hungary and Czechoslovakia.

CAPACITY / POWER:
Process equipment:
 - electric motors = kW

Generating equipment:
 installed capacity = kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:	Major primary operative shops	Kind of process involved	Mechanization: A most advanced B considerably high standard C moderate standard D apparently short of Index standard E almost automated	Modem.	Autom.	Automation:	
						I. fully automated	II. semi-automated
Manufacturing of television and radio sets	Chassis making, loud speaker and coil making, moulding, pressing, plastic manufacturing, cabinet making, assembling, completing, packing.		B				

CAPACITY UTILIZATION:	Approximate capacity utilization										IX. HISTORY & PLAN			
	Full capacity output										Total output 1000 US \$		No. of persons employed	Total exports 1000 US \$
Current utilization	up to 30	30	40	50	60	70	80	90	100					
Major products for processing														
The actual over-all capacity utilization is considered to be about 100%.														
1. Performance in the past:														
Year: 1963														
1964											1,670	520	-	
1965											2,630	580	-	
1966											2,430	590	-	
1967											3,380	6,90	-	
1968											5,150	6,91	-	
2. Investments in the past:														
From 1964 to 1968:											49		Replacement of machines	
												960		Replacement of buildings
3. Future Plan:														
From 1968 to 1974:											7,920		New additions to process equipment other primary and auxiliary facilities. Then an increase of 2,074 man-years on the first shift of which 971 work as primary and auxiliary operatives each and 132 in management and administration departments. The annual output will then amount to about 60,000 TV and 40,000 radio sets.	

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

* Data of selected establishments representing only part of ISIC 371.

(1967) Manufacture of electrical machinery, apparatus, appliances and supplies (ISIC-Code: 370 *)

Industry	No. of establs.	No. of emplo.	Av. W. S. per pers. (US \$)	Av. gross prod. val./per pers. (US \$)	Av. value added/gross prod. ratio (%)	Av. fixed capital per establs. (1000 US \$)
1. By groups by number of persons employed:						
up to 50	3	60	307	14,258	40	168
51 - 100	4	332	672	11,988	22	420
over 100	5	962	1,184	11,101	10	1,920
TOTAL	12	1,265	1,027	11,262	29	..

V. ANNUAL PRODUCTION

(1968)

Product or group of products	Yr. of recd.	Unit	Quantity produced	Avg. unit price or factory value	Total output value (US \$)
Various wood working machines	1962	pieces	5,921	181.9	1,080
Universal machine tools	1955	"	2,101	541.8	1,132
Miniature universal machine tools	1953	"	8,000	77.4	610
Lathe chucks	1949	"	6,725	58.1	395
Hardness testing devices	1951	"	349	464.4	161
Special turning lathes	1966	"	2	5,805.0	11
Toolpost grinding machines	1966	"	110	205.1	23
Special machines	1968	"	1	9,945.9	10

TOTAL VALUE OF PRODUCTION: 1,422

VI. VALUE ADDED

(1968)

	Total value (US \$)
1. Annual wages & salaries	388
- Operative workers (257 persons)	603
- Non-operative workers (96 persons (*))	286
2. Other payments for employees	184
3. Annual depreciation	187
- Machinery & equipment	97
- Buildings	86
- Non-physical capital assets	1
4. Rentals paid	-
5. Interest & royalties	10
6. Sales tax	167
7. Other indirect business taxes	16
8. (-) Subsidies	45
9. Corporate income before tax	7

(*) including 6 apprentices

TOTAL VALUE ADDED: 1,741

DESCRIPTION OF MAJOR PRODUCTS:

Woodworking machines:

Type I: Without any conversational changes and almost no time-requirements for tool-setting, type I can be used as band-saw, circular-saw, nebras-saw, jig-saw, belt-sander and disc-sander. 2-speed 3/4 H.P. motor (1,400 and 3,600 r.p.m.). Accessories provide ten further woodworking functions: horizontal drilling, moulding, combing, slotting, hollowing, lathe and face turner, tool grinder, flexible shaft work, planing, thicknessing and mortising. Designed for professional carpenters, model makers, instrument makers.

Type II: Planing and thicknessing machine for home carpenters. Equipped with 1.30 HP AC motor or 1.1 HP three-phase motor.

Universal machine tools:

Type I: All chip-removing operations in metalworking can be performed, i.e., turning, thread-cutting, drilling, milling and grinding. Used in industrial training schools, mobile workshops and repair shops. Equipped with three-phase or single-phase AC motor 1,400/1,800 r.p.m. (0.4 HP/0.55 HP). This type of lathe can also be delivered in 2 other versions.

Continuation see page 4 XII, Supplements.

MARKET ASPECTS:

Retailers:

In order to complete the company's sales structure, industrial diamonds, diamond-grinding wheels and various tools have to be sold. Sales volume: US \$ 232,000.

Customers of products:

Metal and wood-working machine-tools: Schools, universities, all industries, laboratories, electricians, architects, households for various do-it-yourself activities. Hardness testing devices are bought by the metal working industry.

Sales organisation:

Domestic market: Own sales organisation.

Foreign market: Importers who frequently only sell the company's products.

Market and competition:

The establishment supplies some 74 foreign countries with its products. Usually these products last for about 5 years. Share in the domestic market: Hardness testing devices, lathe chucks, and miniature universal machine tools: between 50 - 55%; the enterprise is the sole domestic producer of such products, the rest is imported. Wood-working machines: 3%.

Export price policy: Under certain circumstances the company sells at prime costs, just to hold its share in the international market.

EXPORT:
Total annual export:

Major products	To Western Europe	To Eastern Europe	To Developing countries
Miniature universal machine tools	40%	6%	15%
Various wood-working machines	82%	1%	15%
Lathe chucks	30%	9%	2%
Hardness testing devices	70%	2%	10%
Special machines	-	100%	-

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VII.6 has been deducted accordingly.

VII. ANNUAL CONSUMPTION

(1968)

	Quantity consumed	Unit	% import	Average import value	Total consumption value (US \$)
1. Energy and water					
TOTAL:				53	
- Electricity	000 kWh	823		21	
- Coke	t	200		1	
- Fuel (oil and gasoline)	t	300		31	
- Gas	000 m ³	1		0.3	
					53
2. Production materials					
TOTAL:				1,068	
- Cast iron	t	323		93	
- Steel	t	554		217	
- Aluminum	t	143	1%	166	
- Electric motors	pieces	14,000		246	
- Standard parts (e.g. screws, bolts, springs, etc.)	-	-		125	
- Various parts (e.g. drill chucks, saw blades, etc.)	-	-		221	

	Total consumption value (US \$)
3. Other materials & supplies	187
TOTAL:	
- Packaging material (cartons, boxes, styropor)	73
- Parts, supplies & services	40
- Other materials & supplies	74
4. Business services purchased	373
TOTAL:	
- Transportation, storage & insurance	282
- Communication, advertising & other business services	91
5. Work performed by subcontractors	-
TOTAL:	

TOTAL VALUE OF CONSUMPTION: 1,681

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services			
1. Engineering studies	✓	Technical and managerial personnel	✓
2. Financial assistance	✓	Industrial training	✓
3. Industrial services	✓	Technical consultancy	✓
4. Equipment supply	✓	Installation & maintenance	

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

XII. SUPPLEMENTS & NOTES

Average liquid assets:	(1000 US \$)
Cash on hand and in bank	34
Accounts receivable from delivery of goods and services	241
Other accounts receivable	79
Prepaid expenses	2
Total average liquid assets	799

Desired working capital:	(1000 US \$)	Equivalent no. of months
Production material	67	
Other materials and supplies	14	
Finished products	1,186	
Wages for primary speculative workers	17	
Other wages and salaries	27	
Training costs	2	
Administrative costs, other costs and contingencies	191	
Other special items	106	
Total	2,130	

Training:

A labour training programme is planned for the future; the annual expenditures are estimated at US \$ 6,600. At present only engineers and experts are trained.

Depreciation policy:

According to the income tax law, buildings and machinery are depreciated at 10%, furniture at 20% per annum.

Governmental policies:

Machinery for the plant is exempted from custom duties and sales taxes. During the first five years of operation, imported materials are exempted from customs duties.

Major Products: Television sets.
Capable of producing annually 10,000 sets based on one-shift operation. Full-capacity output amounts to US \$ 2.5 million.

Reporting Unit: A one-establishment enterprise, privately owned; founded in 1956. No foreign capital participation. Commercial production was first started in 1966. Break-even point was surpassed for the first time in 1968 at an annual output level of US \$ 2.3 million. No exports. No possibility of merging; possibility of further specialization.

I. FIXED CAPITAL ASSETS

(End of 1968)

	Original purchase value (000 US \$)	Replace- ment value (000 US \$)	Ave- age (Yrs.)
1 Primary process equipment (including installation cost)	60	47 1/2	..
TOTAL	60	47 1/2	3
- Process equipment	57	46	3
- Hand tools & apparatuses	3	1	..
2 Buildings	243	207 1/2	10
TOTAL	243	193	10
- Primary industrial buildings (total floor space: 4,700 m ²)	219	153	10
- Auxiliary buildings	6	3	10
- Warehouses	6	18	10
- Office administration buildings	17	12	10
- Housing	2	1	10
3 Auxiliary facilities (excl. buildings)	96	33 1/2	..
TOTAL	96	33 1/2	..
- Internal power equipment	15	15	..
- Laboratory facilities	7	7	..
- Means of transportation	33	11	..
- Office equipment	8	7	..
TOTAL PHYSICAL FIXED ASSETS (excluding land)	414	287 1/2	
4. Other fixed capital assets	145	156	
TOTAL	145	156	
- Land (total acreage: 13,820 m ²)	145	156	
- Land improvements	-	-	
- Others	-	-	

1/ Book value

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport: external long distance fair

internal long distance fair

local and city fair

Utilities: electricity poor

water fair

gas -

Community: residence fair

health and recreation fair

education fair

Own Welfare Facilities: -

III. INVENTORIES

(End of 1968)

Actual value (000 US \$)

Number of months

Inventories 125

TOTAL 125

- Production materials 95

- Other input materials 7

- Work-in-process 91

- Finished products 39

(See XII. Supplemental)

WORKING TIME PER OPERATIVE WORKER:

1st shift

2nd shift

3rd shift

hours

Shift hours/day 16

-

-

hours

Actual hours/year 2,160

-

-

days

Normal days/year 200

-

-

days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)

	up to 53	53-73	73-105	105-132	132-195	over 195
	US\$	US\$	US\$	US\$	US\$	US\$

1. Local non-operatives

- Managers	-	-	-	-	-	1
- Engineers	-	-	-	-	-	-
- Technicians	-	-	-	-	-	-
- Accountants	-	-	-	-	-	-
- Sales officers	-	-	-	-	-	-
- Clerks and typists	-	-	-	-	-	-
- Others	-	4	-	-	-	-

2. Local operatives

- Supervisors	-	-	-	-	1	-
- Foremen	-	-	-	-	-	-
- Others	1	1	1	-	-	-
- Machine operators	10	10	56	-	-	-
- Craftsmen	-	-	-	-	-	-
- Truck drivers	-	-	2	-	-	-
- Unskilled operatives	2	-	-	-	-	-
- Other full-time operatives	2	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-

3. Foreign employees

- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

IV. MANNING TABLE

(Number of persons)

(1968 average)

S.I.B categories: A. Supervisory staff and foremen (for all shifts)
B. Machine operators
C. Other operatives
D.

Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
-------	---	---	---	---	-----------	-----------	-----------

ALL SHOPS & UNITS:

104	11	63	13	-	-	-
-----	----	----	----	---	---	---

1. Primary operative shops

82	6	63	13	-	-	-
----	---	----	----	---	---	---

Printing shop

4	-	3	1	-	-	-
---	---	---	---	---	---	---

Coil winding shop

13	1	10	2	-	-	-
----	---	----	---	---	---	---

Assembling

37	2	33	2	-	-	-
----	---	----	---	---	---	---

Testing

10	1	8	1	-	-	-
----	---	---	---	---	---	---

Finishing

10	1	8	1	-	-	-
----	---	---	---	---	---	---

Controlling

5	1	1	3	-	-	-
---	---	---	---	---	---	---

Packing

3	-	-	3	-	-	-
---	---	---	---	---	---	---

2. Auxiliary operative units

10	-	-	10	-	-	-
----	---	---	----	---	---	---

- Repair & maintenance	-	-	-	-	-	-
------------------------	---	---	---	---	---	---

- Mechanical shop	-	-	-	-	-	-
-------------------	---	---	---	---	---	---

- Tooling shop	-	-	-	-	-	-
----------------	---	---	---	---	---	---

- Utilities control	-	-	-	-	-	-
---------------------	---	---	---	---	---	---

- Product & material storage	3	-	3	-	-	-
------------------------------	---	---	---	---	---	---

- Off-site transport	6	-	6	-	-	-
----------------------	---	---	---	---	---	---

- Guards, cleaners, etc.	1	-	1	-	-	-
--------------------------	---	---	---	---	---	---

3. Auxiliary non-operative units

12	12	-	-	-	-	-
----	----	---	---	---	---	---

- Production management	1	1	-	-	-	-
-------------------------	---	---	---	---	---	---

- Research & development	1	1	-	-	-	-
--------------------------	---	---	---	---	---	---

- Sales unit	1	1	-	-	-	-
--------------	---	---	---	---	---	---

- Accounting	2	2	-	-	-	-
--------------	---	---	---	---	---	---

- General administration	3	3	-	-	-	-
--------------------------	---	---	---	---	---	---

- Other units	4	4	-	-	-	-
---------------	---	---	---	---	---	---

V. ANNUAL PRODUCTION

(1968)

Products (or group of products)

Yr. of
first
prod.Quantity produced
Unit QuantityAv. unit
price ex
factory
(US \$) Total
output
value
(1000 US \$)

Television sets (25")

1964

pcs

1,000

277

277

Television sets (21")

1964

pcs

9,000

218

2,215

TOTAL VALUE OF PRODUCTION: 2,492

VI. VALUE ADDED

(1968)

Total
value
(1000 US \$)

1. Annual wages & salaries

- Operative workers
 1 92 personnel

67

- Non-operative workers
 1 12 personnel

12

2. Other payments for employees

3. Annual depreciation

- Machinery & equipment

10

- Buildings & other facilities

40

- Non-physical capital assets

-

4. Rents paid

-

5. Interest & royalties

-

6. Sales tax

-

7. Other indirect business taxes

0.1

8. (-) Subsidies

(-) 13

9. Corporate income before tax

24

TOTAL VALUE ADDED: 166

DESCRIPTION OF MAJOR PRODUCTS:

The quality of the television sets produced meets the European standards and is still being improved gradually.

For a further increase in demand, the construction of television stations in the provinces is required. Spare parts for TV sets, loud speakers, tin and wires are partly imported from Holland; time of delivery 6 to 18 months. Cabinets, metal spare parts of printing board, plastic and fibre parts are manufactured domestically; time of delivery 15 days.

MARKET ASPECTS:

Consumer of products:
Hotels, clubs, families.

Sale organization:
Sale agencies in all provinces and dealers.

Share in the domestic market:
10%.

Competition with imported products:
There is no competition, since the importation of similar products is prohibited.

EXPORT:
Total annual export: None.

Major products	To Western countries	To Eastern countries	To Developing countries
----------------	----------------------	----------------------	-------------------------

Prospects of exports:

No cost advantage for exports.

VII. ANNUAL CONSUMPTION

(1968)

Quantity consumed
Unit Quantity%
import
seriesAverage
import
series
(US \$) Total consumption
value
(1000 US \$)Total
consumption
value
(1000 US \$)

1. Energy and water

TOTAL:

- Electricity

000 kWh

273

-

-

7

5

- Gas oil

000 l

45

-

-

1

1

- Other oil fuels

000 l

35

-

-

1

1

2. Production materials

TOTAL:

- Television parts

series

10,000

100

259

302

2,244

938

- Chassis parts

series

10,000

-

-

234

-

- Wooden parts

series

10,000

-

-

829

-

- Plastic parts

series

10,000

-

-

9

-

- Fibre parts

series

10,000

-

-

26

-

- Cables

series

10,000

-

-

11

-

- Zinc and other metallic parts

series

10,000

100

16

35

-

- Loud speakers

series

10,000

100

5

13

-

- Clocks

series

5,000

100

22

43

-

- Others

**

**

-

-

106

3. Other materials & supplies

TOTAL:

- Packaging material
(wooden and cardboard boxes)

26

15

- Parts, supplies & services

8

- Other materials & supplies

3

4. Business services purchased

TOTAL:

- Transportation, storage & insurance

49

44

- Communication, advertising & other business services

5

5. Work performed by subcontractors

TOTAL:

-

TOTAL VALUE OF CONSUMPTION: 2,126

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1):	Number	Original Purchase Value (\$000 US \$)	Book value (\$000 US \$)	Av. Age (yr)	Remarks	Description:	
						1258	1259
Testing equipment	55	15	10	3	-		
Printed board machines	13	8.4	7.6	1	-		
Carpentry equipment	20	26	21	5	-		
Coil winding equipment	9	7.9	7.2	1	-		

Supplier countries for machinery and equipment: Netherlands, Japan, Italy, Fed. Rep. of Germany.

CAPACITY POWER:

Process equipment:

- electric motors kW -

Generating equipment:

- installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:	C: moderate standard			Automation:	E: no automated
			A: most advanced	B: considerably high standard	E: almost automated		
Television manufacturing	Printing, coil winding, assembling, testing, finishing, controlling, packing	B	IT				

CAPACITY UTILIZATION:

Full-capacity output: US \$ 2,500,000.

Current utilization:

Major products for processes	up to 30	30-60	60-65	65-70	70-80	80-90	90-100	100
	up to 30	30-60	60-65	65-70	70-80	80-90	90-100	100

The actual over-all capacity utilization rate

can be considered to be 100%.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output (\$000 US \$)	No. of persons employed	Total exports (\$000 US \$)
1963	-	-	-
1964	-	-	-
1965	-	-	-
1966	450	50	-
1967	1,250	86	-
1968	2,490	104	-

2. Investments in the past:

In 1966 :

1,320

Approximate amount (\$000 US \$)	Type of investment
1,320	Supplementary investment of machinery and building to be able to reach the break-even point.

3. Future Plan:

From 1968 to 1970 : 1,320 New additions to process machinery and equipment, to other primary production facilities and administration and welfare facilities; technological improvements of other primary and auxiliary production facilities. These investments will be accompanied by an increase of 110 primary operatives and 15 man-years for management and administration.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

* Data of selected establishments representing only part of ISIC-code 370.

(1967) Manufacture of electrical machinery, apparatus, appliances and supplies (ISIC-Code: 370*)

Industry	No. of establs.	No. of emplo.	Av. W. & S. per pers. (\$000 US \$)	Av. gross prod. val./per pers. (\$000 US \$)	Av. value added/gross prod. ratio (%)	Avr. fixed capital per establs. (\$000 US \$)
1. Size groups by number of persons employed: up to 50	3	66	107	14,258	40	168
51 - 100	4	312	672	11,088	22	920
over 100	5	1,188	1,188	11,101	30	1,920
TOTAL:	12	1,265	1,027	11,262	29	-

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services:		
1. Engineering study	5. Technical and managerial personnel	9. Import and export transaction
2. Advice and assistance	6. Industrial training	10. Admission of foreign labour
3. Industrial services	7. Technical consultancy	
4. Equipment supply	8. Installation & maintenance	

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

XII. SUPPLEMENTS & NOTES

Average liquid assets:	(000 US \$)
Cash on hand and in bank	95
Accounts receivable from delivery of goods and services	668
<u>Prepaid expenses</u>	<u>76</u>
Total	839

Desired working capital:	(000 US \$)
Production materials	3,089
Other materials and supplies	40
Finished products and work-in-process	396
Wages of primary operative workers	42
Other wages and salaries	13
Administrative costs, sales costs and contingencies	105
<u>Other special items</u>	<u>112</u>
Total for 20,000 television sets	3,360

Equivalent no. of months

Depreciation policy:	
Machinery and buildings	10%
Office equipment	20%
Laboratory equipment	25%
Transport equipment	35%

Governmental policy:

- a) Affecting the profitability of the enterprise: Machinery for the factory is exempted from custom duties and sales taxes. 45% of imported production materials are exempted from custom duties; 50% reduction of the duties applicable to the rest of the imported materials, during the first five years of operation. Industrial loans are made available at relatively favourable terms.
- b) Affecting the viability of the enterprise: More TV stations should be constructed and the programmes improved. Government should not give further permissions for the production of similar articles, but give to the existing establishments the possibility of expansion for productivity improvement. Custom duties on raw materials could be further reduced. Universities should co-operate in the training of television technicians.

Major Products: Electric lamps. Capable of producing annually 20,000 lamps on 1-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1964, private corporation, no participation of foreign capital, business year : June 1966 to May 1967.

I. FIXED CAPITAL ASSETS

(31st May 1967)

1. Primary process equipment

TOTAL

- Process equipment 23
- Hand tools & apparatuses 5
- Cost of installation ..

2. Primary industrial building

TOTAL(total floor space: .. m²)

3. Auxiliary facilities

TOTAL

- Water, steam, electricity, cooling & storing 1965/66 2
- Transportation facilities ..
- Administrative facilities 1
- Laboratory facilities ..

TOTAL PHYSICAL FIXED CAPITAL ASSETS

(including land)

36

4. Other fixed capital assets

TOTAL- Land (total acreage: .. m²)

DETAIL OF PROCESS EQUIPMENT (incl.)

	Supplier country	Year of installation	Orig. purchase value (1966 US \$)	Replacement value (1966 US \$)
- Folding machine	1 USA	1965	11	
- Cutter	1 "	1965	9	
- Compressor	1 Mexico	1966	1	..
- Stamping press	1 "	1966	.7	
- Punchers	3 "	1966	.9	
- Lathes	2 "	1966	.5	
- Others	.. ..	..	.5	

HISTORY OF INVESTMENT:

Trial production started in 1965/66, commercial production in 1966/67.

In 1964/65, approx. US \$ 24,000 were invested in machinery and

implements.

CAPACITY POWER:

Process equipment:

- Electric motors (8) each 12 kW
- Electric furnaces (1) 14 "

Generating equipment:

Installed capacity: - kVA

EXTERNAL CONDITIONS:

Transport: Long distance, local area, f.o.b.

Utilities: Electricity, water, fair.

Community: -

The operative shops are moderately mechanized.

II INVENTORIES AND WORKING CAPITAL

in 1000 US \$

(31st May 1967)

1. Inventories

TOTAL

17

-

-

-

-

-

-

-

-

-

-

-

-

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IV. ANNUAL PRODUCTION

(1966/67)
Products for group of products

		Yrs. of first prod.	Quantity produced	Revised capacity output	Unit price at factory (US \$)	Total production value (1000 US \$)
			Unit	Output		
Lamps	2 x 40	1966/67	pcs.	6,000	14,000	28
Lamps	2 x 20	"	"	3,000	6,000	17
						51
						219
						(average)
						TOTAL VALUE OF PRODUCTION

CAPACITY UTILIZATION:

In the first year of production the overall rate of utilization approximates 50%.

EXPORTS:

None.

V. ANNUAL CONSUMPTION

(1966/67)
1. Energy and water

		Quantity consumed		Total consumption value (1000 US \$)
		Unit	Purchase	% Imported Taxes rate
TOTAL:				4
- Electricity	000 Kwh		..	4
2. Production materials				
TOTAL				107
- Sheet metal	t	68		16
- Ballast	pieces	9,000		39
- Fluorescent tubes	"	14,000		16
- Sockets	"	18,000		4
- Paints	l	4,010		4
- Cables	pieces	3,000	100	28

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965) Manufacture of electrical machinery, apparatus and supplies
Industry group: Electrical machinery, apparatus and supplies (IMC: 370)

1. Size groups by number of persons employed	Number of establishments	Number of employees	Avg. W. & S.	Avg. gross prod. val. per pers.	Avg. exp. gross prod. ratio (%)
			NIS (\$)	NIS (\$)	NIS (\$)
up to 5	1,670	4,250	405	3,834	37
6 - 100	623	16,074	1,163	5,982	79
over 100	165	60,746	1,048	6,081	86
TOTAL	2,458	71,000	1,183	6,780	83
2. Size groups by value of annual production 1000 US \$:					
up to 8	6,139	9,910	128	1,025	30
over 8	976	67,264	1,230	6,505	109
TOTAL	7,115	77,174	1,088	6,319	82

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1966/67)	Value 1000 US \$
1. Wages & salaries	
- Employees in direct production (10 persons)	14
- Other employees (4 persons)	10
2. Other payments for employees	4
3. Annual depreciation	11
4. Rentals paid	-
5. Interest & royalties	6
6. Sales tax	-
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	44
	44
	44

VII. MONTHLY EARNING RATES

(31st May 1967)	No. of pers. empl.	Average earning rate US \$
1. Local non-operatives		
TOTAL	2	44
- Managers	1	..
- Engineers	1	44
- Technicians	-	-
- Accountants	-	-
- Sales officers	-	-
- Other professional staff	-	-
- Clerks & typists	-	-
2. Local operatives	10	105
TOTAL	10	105
- Supervisors	1	180
- Foremen	-	-
- Machine operators	1	70
- Craftsmen	2	12
- Truck drivers	-	-
- Other full-time operatives	-	-
- Unskilled & part-time operatives	-	-
3. Foreign employees	-	-
TOTAL	-	-

IX. SUPPLEMENTS

Major Products: Non-ferrous wires, conductors and cables. Capable of producing annually 30,000 t on 3-shift operation.

Plastic products. Annual capacity 14,000 t on 3-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1953. 44% foreign and 56% national capital out of which three quarters are public investment.

I. FIXED CAPITAL ASSETS

(End of 1966)

1 Primary process equipment

TOTAL

- Process equipment
- Hand tools & apparatuses
- Cost of installation

	Year of installation	Orig. purchase value (000 US \$)	Replacement value (000 US \$)
		698	1,843
		698	1,843
		Included above	Included above

2 Primary industrial building

TOTAL

- (total floor space: + 3,000 m²)

1964	2,440	4,880
(total floor space: + 3,000 m ²)	2,440	4,880

3 Auxiliary facilities

TOTAL

- Water, steam, electricity, cooling & storing
- Transportation facilities
- Administrative facilities
- Laboratory facilities

	271	304

TOTAL PHYSICAL FIXED CAPITAL ASSETS

(including land)

1,408	1,008
-----	-----

4. Other fixed capital assets

TOTAL

- Land (total acreage: + 11,000 m²)

260	408
-----	-----

DETAIL OF PROCESS EQUIPMENT (no.):

Supplier country

Year of installation

Orig. purchase value
(000 US \$)

Replacement value
(000 US \$)

IV. ANNUAL PRODUCTION

(1966)	Yr. of first prod.	Quantity produced	Nominal capacity output	Unit price at factory (US \$)	Total production value (000 US \$)
Products (or group of products)		Unit	Output		
- Copper conductors	..	t	2,477		461
- Copper wires and cables	..	t	5,023		1,146
- Plastic products	..	t	6,648		17,191
- Magnetic rectified round wire	..	t	3,756	..	3,480
- Aluminium cable	..	t	1,479		1,263
- Telephone cable	..	t	1,091		2,207
- Others	..	t	939		1,127
TOTAL VALUE OF PRODUCTION				30,675	

EXPORTS:

Products:	BENEFITS DUE TO EXPORTS:
Plastic products	Subsidies.
Telephone cables	No import duties or income taxes.
Magnetic rectified round wire	
Copper wires and cables	

V. ANNUAL CONSUMPTION

(1966)	Quantity consumed	% imported	Total consumption value (000 US \$)
	Unit	Per cent.	Tariff rate
TOTAL:			
- Electricity	000 kWh	1,896	319
- Liquid fuels and lubricants		..	107
- Water	000 m ³	561,907	31
TOTAL:			
- Electrolytic copper	t	15,275	14,012
- Aluminum	t	1,641	953
- Galvanized steel wires and cables	t	478	203
- P.V.C.	t	1,672	1,169
- Polyethylene	t	388	276
- Lead	t	2,296	532
- Others	t	1,525	2,501
TOTAL:			
2. Production materials			
TOTAL:			
- Electrocyanic copper	t	15,275	14,012
- Aluminum	t	1,641	953
- Galvanized steel wires and cables	t	478	203
- P.V.C.	t	1,672	1,169
- Polyethylene	t	388	276
- Lead	t	2,296	532
- Others	t	1,525	2,501
TOTAL:			
3. Other materials & supplies			
TOTAL:			
- Packaging			509
- Repair & maintenance			173
- Non-factor service inputs			303
4. Business services purchased			
TOTAL:			
- Transport, storage & insurance			122
- Communication, advertisements, etc.			161
5. Work performed by sub-contractors			
TOTAL:			
Total consumption value (000 US \$)			
21,371			

VI. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965) Manufacture of electrical machinery, apparatus and supplies		(ISIC: 370)			
1. Size groups by number of persons employed	Number of firms	Number of emp. 000	Ave. W. &. L. prod. val. 000 US \$	Ave. gross prod. val. 000 US \$	Ave. exp. gross prod. ratio* (%)
up to 5	1,670	4,250	405	3,834	37
6 - 100	623	16,004	1,163	5,982	79
over 100	165	60,746	1,048	6,081	86
TOTAL	2,458	71,000	1,183	6,780	83
2. Size groups by value of annual production (000 US \$):					
up to 8	6,139	9,910	128	1,025	30
over 8	976	67,264	1,230	6,505	109
TOTAL	7,115	77,174	1,058	6,319	82

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1965)	Value (000 US \$)
1. Wages & salaries	
- Employees in direct production (647 persons)	77
- Other employees (519 persons)	1,137
2. Other payments for employees	1,137
3. Annual depreciation	1,137
4. Rentals paid	1,137
5. Interest & royalties	1,083
6. Sales tax (not incl. in POPAI)	1,114
7. Other ind. bus. taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	3,002
	9,404
Grand total	

VII. MONTHLY EARNING RATES

(End of 1965)	No. of per. empl.	Average earning rate (US \$)
1. Local non-operatives		
TOTAL	474	431
- Managers	3	1,440
- Engineers	30	480
- Technicians	19	340
- Accountants	4	400
- Sales officers	45	400
- Other professional staff	2	600
- Clerks & typists	33	160
2. Local operatives		
TOTAL	688	115
- Supervisors	1	900
- Foremen	40	180
- Machine operators	367	113
- Craftsmen	129	120
- Truck drivers	10	130
- Other full-time operatives	146	93
- Unskilled & part-time operatives	-	-
3. Foreign employees		
TOTAL	1	120
- Engineers, trainers and other technical control staff	1	120

IX. SUPPLEMENTS

Government policies:

Export subsidies should be increased. Enforcement of import substitution is desirable.

Interest rates on loan capital are too high to attract additional investments.

Major Products: Stationary small-scale batteries for telephone exchanges and starter batteries for motor vehicles;
In 1967 the company produced 5,000 starter batteries on 1-shift operation.

Reporting Unit: A one-establishment enterprise, privately owned, founded in 1954; approx. 20 employees; no exports.

I. FIXED CAPITAL ASSETS

	(End of 1967)	Original purchase value (000 US \$)	Replacement value (000 US \$)	Ave age (Yrs.)
1 Primary process equipment (including installation cost)				
TOTAL	37	0	-	-
- Process equipment *	28	0	38	-
- Hand tools & apparatuses	9	0	12	4
2 Buildings	16	0	-	-
TOTAL	16	0	-	-
Primary industrial buildings	16	0	13	132
- total floor spaces 486 m ²				
- Auxiliary buildings	-	-	-	-
- Warehouses	-	-	-	-
- Office/administration buildings (**)	-	-	-	-
- Housing	-	-	-	-
(*) Figures included in primary industrial buildings				
3 Auxiliary facilities (excl buildings)	16	0	-	-
TOTAL	16	0	-	-
- Internal power equipment	1	0	12	45
- Laboratory facilities	-	-	-	-
- Means of transportation	9	0	9	3
- Office equipment	6	0	10	60
TOTAL PHYSICAL FIXED ASSETS (excluding land)	64	0	120	
4 Other fixed capital assets	41	0	127	-
TOTAL	41	0	127	-
- Land (total acreages)	7	0	7	-
- Land improvements (t.lands 662 m ²)	2	0	6	-
- Others	19	0	77	-

*VR Details of process equipment and auxiliary units and operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS

Transport	external long distance internal long distance local and city	poor (*) excellent
Utilities	electricity water gas	excellent "
Community	residence health and recreation education	fair excellent
Own Welfare Facilities	-	-
(*) No access for heavy duty trucks to premises; no increases in costs noticeable as yet.		

III. INVENTORIES

(End of 1967)	Actual value (000 US \$)	Number of months
Inventories	26	
TOTAL	26	
- Production materials	12	2
- Other input materials	1	-
- Work-in-process	4	1
- Finished products	10	0.5

WORKING TIME PER OPERATIVE WORKER

	1st shift	2nd shift	3rd shift	hours
Shift hours/day (*)	0	-	-	hours
Actual hours/year	1,900	-	-	hours
Actual days/year	230	-	-	days

(*) Normal; Actual: 8.2 hrs day due to cleaning periods (load) ordered by law.

II. MONTHLY GROSS WAGES AND SALARIES

Number of persons

(1967 monthly average)

up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 560 US\$
----------------------	---------------------	---------------------	---------------------	---------------------

1 Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists

2 Local operatives

- Supervisors
- Foremen
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

3 Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

IV. MANNING TABLE

Number of persons

(1967 average)

Total	A	B	C	D	E-D	F-D
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ALL SHOPS & UNITS.

23	7	16	-	-	-
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1 Primary operative shops

14	-	14	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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14	7	16	-	-	-
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Total	A	B	C	D	E-D	F-D
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VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (0.1.)	Number	Original Purchase Value 1000 US \$	Book value 1000 US \$	Av. Age (yr)	Remarks SN Purchased second-hand OB Obsolete R Renewed SC Self-constructed	Further details of most recent machinery:			
						Remarks	Machine type	Supplier country	Year of instalation	Daily running time
Milling machines	42	294	147	6	-	Portal milling mach.	PR.Germ.	1966	2-shifts
Grinding machines	27	159	77	8	-/SC	Special grinding "	Austria	"	1-shift
Turning lathes	26	139	70	10	-/Ob	Special grinding "	"	"	1-shift
Turning lathes (automated)	12	116	58	4	-	Universal circular grinding machine	Switzerl.	1967	2-shifts
Turning lathes (semi-automated)	5	43	23	8	-	Front turning laths	PR.Germ.	1968	2-shifts
Drilling machines	19	50	23	10	-/SC	Center laths	Austria	1966	2-shifts
Shaping machines	2	12	4	10	-	Fully automated lathes	"	"	2-shifts
Work benches	25	4	2	10	-	Radial drilling machines	PR.Germ.	1967	1-shift
Craneway	9	10	9	6	-	Shaping machine	Sweden	1966	1-shift
Compression stations	4	3	2	10	-				
Salt-bath furnaces and retort furnaces	3	10	5	12	-				
Transportation unit (stacker trucke)	1	6	3	4	-				
Special machines (High temperature quenching tumbling tub)	2	5	2	8	-				
Oil tanks	2	3	2	5	-				
Cleaning works	2	3	1	5	-				

CAPACITY POWER:

Process equipment:

- electric motors 340 kW

Generating equipment:
installed capacity - kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:	C moderate standard		Automation:	
			A more advanced	B considerably high standard		E almost outdated
Turning		B		II		
Milling		B		II		
Drilling		C		III		
Annealing		C		III		
Assembly		C		III		
Painting		B		III		
Tool shop		B		II		
Lathes chucks		B		II		
Grinding		B		III		
Hardening - Testing						

CAPACITY UTILIZATION:

Full-capacity output: US \$ 3,870,000
based on 1 - 2 shift operation.

Current utilization:

Major products for processing	Approximate %									
	up to 30	40	50	60	70	80	90	100		
Turning (2-shifts)					X					
Milling (")					X					
Drilling (")				X						
Annealing (1-shift)					X					
Assembly (")					X					
Painting (")					X					
Tool shop (")					X					
Lathes chucks (1-2 shifts)					X					
Grinding (2-shifts)				X						
Hardening testing (1-shift)				X						

IX. HISTORY & PLAN

1. Performance in the past:	Total output (1000 US \$)	No. of persons employed	Total exports (1000 US \$)	
Year: 1963	2,250	301	1,450	
1964	3,040	309	1,820	
1965	3,520	324	2,240	
1966	4,070	424	2,480	
1967	4,250	422	3,090	
1968	4,060	353	2,850	
2. Investments in the past:	Approximate amount (1000 US \$)	Type of investment		
From 1958 to 1968:	1,200	Buildings and machinery Extension and rationalization		
1968 :	160	Buildings, machinery, tools, auxiliary facilities		
3. Future Plan:				
From 1969 to 1970:	350	Extension and rationalization of process and other equipment.		

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1964)

Industry	Industrial machinery				(ISIC-Code: 360)
	Av. W. &. S.	Av. gross prod. val./ per pers.	Av. value added/gross prod. ratio (%)	No. of empl.	
1. Size groups by number of persons employed:					
up to 19	1,302	5,536	1,264	6,745	51
20 - 99	262	11,451	1,729	7,224	54
100 - 499	93	19,866	1,977	8,532	50
500 - 999	9	5,176	2,161	6,460	54
over 1,000	9	12,561	2,022	6,192	53
TOTAL	1,675	55,198	1,885	7,511	51

2. Size groups by annual value of production (1000 US \$):	No. of empl.	No. of pers.	Av. gross prod. val./ per pers.	Av. value added/gross prod. ratio (%)	Av. W. &. S.	
					1,000	2,000
up to 20	707	995	885	51		
20 - 40	276	1,330	1,146	5667	54	
40 - 200	5,781	1,435	5,983	54		
200 - 400	102	4,198	1,745	6,569	55	
400 - 2,000	135	14,177	1,894	7,555	54	
over 2,000	53	28,717	2,061	8,095	49	
TOTAL	1,675	55,198	1,885	7,511		

V. ANNUAL PRODUCTION

(1967)	Yr. of fin. prod.	Quantity produced Unit	Avg. unit price in factory (US \$)	Total output value (1000 US \$)
Stationary small-scale batteries	1967	pieces	..	4
Starter batteries	"	"	6, 10k	187

TOTAL VALUE OF PRODUCTION

191

VI. VALUE ADDED

(1967)	Total value (1000 US \$)
1 Annual wages & salaries	42
- Operative workers	42
1. 16 personnel	..
- Non-operative workers	..
(7 personnel)	..
2 Other payments for employees	1
3 Annual depreciation	4
- Machinery & equipment	4
- Buildings & other facilities	..
- Non-physical capital assets	..
4 Rentals paid	..
5 Interest & royalties	..
6 Sales tax	1
7 Other indirect business taxes (payroll tax, motor vehicle tax)	1
8 () Subsidies	..
9 Corporate income before tax	16

TOTAL VALUE ADDED

24

DESCRIPTION OF MAJOR PRODUCTS:

Stationary small-scale batteries for telephone exchanges. Produced in small series only.

Starter batteries of various sizes and voltages for motor vehicles; serial production; standard quality.

Time of delivery: prompt.

MARKET ASPECTS:

Re-sales:

Various kinds of batteries to supplement product-mix. Company's own production programme was standardised.

Consumers of products:

Railway company, army, communities, private consumers (car owners), owners of medium-sized private branch exchanges.

Sales organisation:

Direct sales only, no wholesale.

Durability of products:

3 years.

Extent of the market:

The establishment could supply 200 regular and about 2,000 casual customers.

Share in the domestic market:

Keen competition. Company belongs to a cartel. Almost no quality competition possible except with outsiders such as discount houses. Price competition almost negligible due to public orders.

EXPORT: No exports reported.
Total annual export

Major products	To Western countries	To Eastern countries	To Developing countries

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity	% Import	Average import duties	Total consumption value (1000 US \$)
1 Energy and water TOTAL					6
- Electricity	000 kWh	121	-	-	4
- Coal	t	22			1
- Gas	000 m ³	16			1
- Water	000 m ³	2			-
2 Production materials TOTAL					67
- Lead and lead oxide	t	128	-	-	20
- Multiple containers	pieces	4,590	-	-	11
- Separators	"	623,700	-	-	6
- Others	-	-	-	-	2
- Re-sales	pieces	600	-	-	28

3. Other materials & supplies TOTAL	Total consumption value (1000 US \$)
- Packaging material	8
- Parts, supplies & services	5
- Other materials & supplies	5
4. Business services purchased TOTAL	11
- Transportation, storage & insurance	3
- Communication, advertising & other business services	8
5. Work performed by subcontractors TOTAL	6

TOTAL VALUE OF CONSUMPTION: 98

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (II.1)

	Number	Original purchase value 1960 US \$	Replacem- ment value 1960 US \$	Ave. Age (yrs)	Remarks	Supplier country	Year of instal- lation	Daily running time
Lead crucible	2	5	5	2	-	Austria	1965	9 hrs
Casting machine	1	6	6	1	-	F.R.Germ.	1966	9 "
Pasting machine	1	?	?	-	-	Austria	1967	2 "
Mixer	1	1	4	30	-	Austria	1938	3 "
Moulding equipment	1	0.2	2	25	SC /Ob		1946	24 "
Exhauster	1	6	12	++	SC		++	++
Rectifiers	2	3	?	15	-		++	++

CAPACITY POWER:
Process equipment:
- electric motors 87 kW

Generating equipment:
installed capacity - EVA

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		Automation:		Further details:			
		A: most advanced	B: considerably high standard	C: moderate standard	D: appreciably short of today's standard		E: almost outdated	I: fully automated	II: semi-automated
Foundry		A	II						
Pasting shop		C	III						
Moulding shop		D	III						
Assembly		C	III						
Battery charging station		C	III						
Disassembly		C	III						

CAPACITY UTILIZATION:

Full capacity output 110,000 units.

Current utilization

Based on 1-shift operation.

Major products (or processes)

up to 30 40 50 60 70 80 90 100

Stationary small-scale batteries

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963
1964
1965
1966
1967
1968

Total output
1960 US \$No. of
persons
employedTotal exports
1960 US \$

170

26

-

180

25

-

215

24

-

215

24

-

200

23

-

230

22

-

2. Investments in the past:

From 1965 to 1967: 22

1967: A

Approximate
amount
1960 US \$

Type of investment

Machinery and fixtures

From 1968 to 1971: 23

1968: B

Machinery and fixtures

3. Future Plan:

From 1968 to 1971: 23

1968: B

Replacement of moulding and
mixing machinery as well as of
battery charging station.

Two more operatives will be
employed on the 1st shift.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C - Confidential; figures of this size group are included in those underlined.

(1964) Manufacture of electrical machinery,
Industry apparatus, appliances and supplies

(ISIC-Code: 370)

1. Size groups by number
of persons employed:

up to	19	62	308
20 -	99	674	1,054
100 -	499	7	1,516
500 -	999	C	5,631
over	1,000	12,230	1,889

Ave. W. & S.	Ave. gross prod. val./ per pers. 1960 US \$
No. of empl.	No. of empl.

Ave. value additions/gross prod. ratio (%)	Ave. gross prod. val./ per pers. 1960 US \$
54	5,881
55	6,429
C	C
15	10,579

2. Size groups by
annual value of
production
1960 US \$:

up to	20	39	94	734	3,801
20 -	40	9	58	996	2,833
40 -	200	19	297	1,296	5,631
200 -	400	12	618	1,469	5,054
400 - 2,000	5	822	1,912	5,641	65
over 2,000	10	13,514	2,108	10,502	36

TOTAL:

94 15,403 2,044 9,867 38

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service:		
1. Engineering study	1. Technical and managerial personnel	8. Import and export transaction
2. Financial assistance	2. Industrial training	9. Admission of foreign labour
3. Industrial services	3. Technical consultancy	
4. Equipment supply, installation & maintenance	4. Technical consultation	

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
2, 3				The establishment is willing to render industrial services if costs are paid. However, know-how is usually furnished by machine producers.
6				Training of unskilled foreign operatives could be provided if difficulties such as language requirements and housing could be solved.
8				The enterprise is willing to import raw materials provided that prices and quality meet standards. Supply has to be ensured for a longer period.

XII. SUPPLEMENTS & NOTES

Off-plant training:

A few workers attended courses organised by different economic institutions.

Depreciation policy:

The company applies the straight-line method only.

Bottlenecks and current problems:

No major bottlenecks reported.

Commission work:

Sub-contractors smelted scrapped lead based on short-term agreements.

Major Products:

Power transmission cables and lines, telecommunication cables and lines, cable fittings. Capable of producing annually approximately 5,500 t of power transmission cables, 1,800 t of power transmission lines and wires, 2,400 t of telecommunication cables and 860 t of telecommunication lines and wires. Full-capacity output amounts to US \$ 15.5 million based on 3-shift operation.

Reporting Unit:

A branch of a centralised multi-establishment enterprise. Although originally founded before 1900 machinery and equipment meet considerably high standards of mechanisation. Majority of share capital is privately owned, the rest belongs to the public. Favourable location. Considerable share of national market. About 35% of output is exported. Very little production under license. Technical co-operation agreement with foreign group.

1. FIXED CAPITAL ASSETS

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Avg app val
1. Primary process equipment (including installation cost)			
TOTAL	5,259	7,682	
- Process equipment *	5,259	7,682	
- Hand tools & apparatuses	-	-	
2. Buildings			
TOTAL	1,960	2,101	
- Primary industrial buildings (total floor space: 24,581 m ²)			
- Auxiliary buildings	1,960	2,101	
- Warehouses			
- Office administration buildings			
- Housing			
3. Auxiliary facilities (excl buildings)			
TOTAL	1,545	1,883	
- Internal power equipment	952		
- Laboratory facilities	275		
- Means of transportation	200		
- Office equipment	118		
TOTAL PHYSICAL FIXED ASSETS (excluding land)	8,763	11,666	
4. Other fixed capital assets			
TOTAL	269	..	
- Land (total acreage: 80,000m ²)	148		
- Land improvements (t.acr. 35,465")	69		
	52	..	

Only 10% of you are government and 90% of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport	external long distance internal long distance local and city	fair excellent "
Utilities	electricity water gas	excellent fair "
Community :	residence health and recreation education	fair excellent fair
Own Welfare Facilities:	Clinic, sports-field, canteen, library, swimming-pool, chess club,	

NO INVENTORIES

(n=3 ± 5, 106.7)

	Actual value (000 US \$)	Number of months
Inventories	2,140	?
TOTAL:		
- Production materials	697	2.5
- Other input materials	116	2
- Work-in-process	735	1.5
- Finished products	592	?

WORKING TIME FOR OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	8.5	8.5	8.4	hours
Actual hours/year	2,065	2,065	2,038	hours
Actual days/year	242	242	242	days

ESTIMATED GROSS WAGES AND SALARIES

(Number of pages)

(1967 monthly average)		up to 100 100 100 100	100 -140 140 -160 160 -240 240 -560 over 560 560 560				
		US\$	US\$	US\$	US\$	US\$	US\$
1. Local non-operatives							
- Managers	-	-	-	-	-	1	6
- Engineers	-	6	6	8	8	1	
- Technicians	-	5	10	9	8	-	
- Accountants	-	-	6	8	-	1	
- Sales officers	-	20	-	-	-	3	2
- Clerks and typists	2	12	10	6	3	4	
- Supervisors	-	-	-	9	-	-	
- Administrative personnel	-	-	-	7	4	3	
2. Local operatives	(*)	-	-	-	-	-	-
- Supervisors	-	-	-	-	18	-	
- Foremen	-	-	-	-	-	-	
- Skilled operatives	-	-	-	-	-	-	
- Machine operators	-	-	130	43	-	-	
- Craftsmen	-	-	-	45	21	-	
- Truck drivers	-	-	-	6	-	-	
- Unskilled operatives	-	209	-	-	-	-	
- Other full-time operatives	-	-	-	-	-	-	
- Part-time operatives	-	-	-	-	-	-	
3. Foreign employees		-	-	-	-	-	-
- Managerial staff	-	-	-	-	-	-	
- Technical staff	-	-	-	-	-	-	
- Other skilled operatives	-	-	-	-	-	-	
- Unskilled operatives	-	-	-	-	-	-	

(*) Company considers supervisors as "non-operatives"

IV. MANNING TABLE

Inventory of personnel

Skill categories:

- A: Supervisory staff and foremen (for all shifts)
- B: Skilled operatives
- C: Semi-skilled operatives (machine operators)
- D: Unskilled operatives

	Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
						B-D	B-D	B-D
ALL SHOPS & UNITS:	646	168		353		23		32
1. Primary operative shops	320	15		197		87		21
- Metal works	31	2	-	24	-	4	1	
- Power transmission cables, lines and wires	113	6	-	59	-	37	11	
- Telecommunication cables, lines and wires	62	3	-	35	-	19	5	
- Plastic insulated cables, lines and wires	103	4	-	69	-	26	4	
- Cable fittings	11	-	-	10	-	1	-	
2. Auxiliary operative units	227	54		156		6		11
- Repair & maintenance	35	3		22		1	-	
- Mechanical shop	-	-		-		-	-	
- Tooling shop	-	-		-		-	-	
- Utilities control	10	10		-		-	-	
- Product & material storage	27	-		27		-	-	
- Off-site transport	5	-		5		-	-	
- Guards, cleaners, etc.	21	-		14		5	2	
- Other operatives	129	41		88		-	-	
3. Auxiliary non-operative units	99	99		-		-		-
- Production management	6	6		-		-	-	
- Research & development	-	-		-		-	-	
- Sales unit	59	59		-		-	-	
- Accounting	34	34		-		-	-	
- General administration	-	-		-		-	-	

V. ANNUAL PRODUCTION

(1967)		Yr. of first prod.	Quantity produced	Avg. unit price ex factory (US \$)	Total output value (000 US \$)
Products (or group of products)		Unit	Quantity		
<u>Power transmission:</u>					
Cables	before 1900	t	5,000	1,250	6,250
Insulated lines and wires	"	"	1,268	1,196	1,517
<u>Telecommunication:</u>					
Cables	"	"	1,900	1,111	2,268
Insulated lines and wires	"	"	600	398	239
Others	"	"	1,300	1,211	1,575
Revenue from commission work		..	..	..	54

TOTAL VALUE OF PRODUCTION: 11,903

VI. VALUE ADDED

(1967)		Total value (000 US \$)
1. Annual wages & salaries		
- Operative workers	931	1,419
(478 personnel)		
- Non-operative workers	488	
(168 personnel)		
2. Other payments for employees		443
Annual depreciation	564	564
- Machinery & equipment		
- Buildings & other facilities		
- Non-physical capital assets		
3. Rentals paid	253	
4. Interest & royalties	33	
5. Sales tax	212	
6. Other indirect business taxes	205	
7. (-) Subsidies	-	
8. Corporate income before tax	517	
TOTAL VALUE ADDED:	3,666	

DESCRIPTION OF MAJOR PRODUCTS:

Power transmission cables: paper insulated and lead covered up to 60 kV or plastic insulated up to 10 kV.
 Control cables and signal cables: paper insulated and lead covered or plastic insulated.
 Telecommunication cables: for local and trunk calls.
 Insulated lines: plastic or rubber insulated.
 Insulated wires: paper, cotton, silk, rayon, or glass silk etc. insulated for construction of machines and apparatus.
 Enamelled wires: with normal, multiple insulation or heat proof insulation, respectively.
 Ropes for overhead lines: made of copper, aluminium or alldrey, steel aluminium ropes and steel alldrey ropes.
 Cable fittings: such as terminal and junction boxes.
 Mountings: of power current cables up to 130 kV as well as of long distance networks.

Mainly serial production. Only very small portion of output manufactured under licence agreements. Products packed in wooden drums, storeable in open air. Terms of delivery: 2 months.

MARKET ASPECTS:

Re-sales:

Frequently special cables, lines, wires, fittings, and semi-products have to be purchased from international manufacturers in order to complete the company's sales programme.

Customers of products:

Public utilities, power stations, railway companies, post, telephone and telegraph companies, and whole-salers.

Sales organisation:

Own sales organisation. Direct sales to final consumers are preferred. The establishment works to order but also on stock, in order to be able to deliver the most common types of cables rather quickly.

Market and competition:

The establishment supplies some 50 major customers with its products. Usually these products last for about 50 years and longer. Share in the domestic market: cables 25%, lines 16%. Three other domestic producers of lead-cables are in the market. Plastic insulated cables are manufactured by 6 different companies as well. Almost no foreign competition.

Export price policy:

Export prices depend almost entirely on quotations of international copper markets.

EXPORT:

Total annual export: US \$ 4,300,000

Major products	To Western countries	To Eastern countries	To Developing countries
Power transmission cables	36%	41%	-
Plastic cables	10%	3%	1%
Telecommunication cables	-	5%	-
Telecommunication lines	4%	-	-

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)		Quantity consumed	% import	Avg. import duties	Total consumption value (000 US \$)	Total consumption value (000 US \$)
		Unit	Quantity	(000 US \$)		
1. Energy and water						
TOTAL:					217	
- Electricity	000 kWh	6,243	-	-	143	
- Fuel oil (heavy)	t	2,280	-	-	50	
- Gas	000 m3	26	-	-	1	
- Steam (at 15 ata/220°C)	000 m3	4,160 (*)	-	-	-	
- Water	000 m3	775 (**)	-	-	23	
2. Production materials						
TOTAL:					7,581	
- Copper (bare)	t	3,652	70	-	5,200	
- Lead	"	2,368	90	-	994	
- Aluminium	"	518	-	-	339	
- Strap iron	"	1,400	-	-	266	
- Plastic	"	1,300	50	77	561	
- Paper	"	500	-	-	155	
- Textiles	"	130	-	-	46	

(*) Completely internally supplied.

(**) 600,000 m3 internally supplied.

3. Other materials & supplies

TOTAL:	
- Packaging material (wooden drums)	19
- Parts, supplies & services	15
- Other materials & supplies	8

4. Business services purchased

TOTAL:	
- Transportations, storage & insurance	177
- Communications, advertising & other business services	56

5. Work performed by subcontractors

TOTAL:	
	-

TOTAL VALUE OF CONSUMPTION: 8,237

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (N.O.)		Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Ave. Age (yr)	Supplier country	Year of instal- lation	Daily running time	Output capacity
Wire drawing machines	7	232	530	13	-	FR.Germ.	1955	1.5 shifts	300 t/m.
Stranding machines	4	236	310	10	-	" "	1958	2 "	170 "
Paper lapping machines	4	189	348	33	SH/OB	" "	1935	1.5 "	170 "
Drying and impregnation units	10	337	484	6	-	" "	1962	3 "	800 "
Lead presses	3	308	341	34	OB	" "	1934	2.5 "	1 t/hr.
Armouring machines	4	526	600	7	-	Austria	1961	1.5 "	800 t/m.
Cabling machines	8	529	851	14	-	Austria,	1954	1.8 "	600 t/m.
						FR.Germ., France, Switzerl.			
Plastic extruders	10	241	499	9	-	FR.Germ.	1959	1.5 "	1,300 t/yr.
Spinning machines	64	206	286	11	-	Switzerl.			
Star-quad twisting machines	8	187	387	9	partly	FR.Germ., France, Austria	1957	1.8 "	2,000 "
Turning lathes	5			10	-	FR.Germ., Switzerl.	1956	1.8 "	2,000 "
Drilling machines	4			10	partly	OB			
Planing machines	2			10	"				
Milling machines	4			10	"				
Craneway	20	2,268	3,046	10	"				
Pumping stations	5			8	"				
Tanks for oil and compounds	6			10	"				
Transportation units	13			5	partly	OB			

CAPACITY POWER:
Process equipment:
- electric motors kW 3,260

Generating equipment:
- installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		C. moderate standard	D. appreciably short of today's standard	E. almost outdated	Automation:		Capacity utilisation
		A. most advanced	B. considerably high standard	Machine.	Autom.	E. almost outdated	I. fully automated	II. semi-automated	
Wire drawing shop (copper)	Drawing of copper wires and annealing	A	II	300 t copper wire/month					75%
Stranding shop	Winding of wires; stranding	B	III	170 t cable wire/month					90%
Cable shop	Lapping of cable wires with paper; cabling	B	III	600 t cables/month					75%
Drying and impregnation shop	Drying and impregnating of cables	B	II	800 t cables/month					150%
Lead pressing shop	Coating with lead	C	III	1 t lead/hr.					125%
Armouring shop	Covering with tar, strap iron, jute, etc.	B	III	800 t cables/month					75%
Synthetic resin shop	Extruding and coating with plastic	B	II	1,300 t resin/year					75%
Testing section	Testing, cutting into appropriate length	C	II	"					..
Dispatch section	Planking of reels	C	III	"					..

CAPACITY UTILIZATION:
Full-capacity output: US \$ 15.5 million. Could only be achieved with 5 additional non-operatives (1st shift) and 100 operatives (2nd shift: 40; 3rd shift: 60).

Current utilization:

Major products for processes	up to 30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Approximate %
	No.	No.	No.	No.	No.	No.	No.	No.	Total
Power transmission cables									x
Power transmission lines and wires									x
Telecommunication cables									x
Telecommunication lines and wires									x
Cable fittings									x

The current rate of utilization is based on 2-shift operation. The total value of production of close to US \$ 12 million could only be achieved due to favourable supply of raw materials and strong demand for the products manufactured. Lack of skilled operatives frequently caused lower utilization of machinery and equipment.

IX. HISTORY & PLAN

1. Performance in the past:	Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
Year: 1963	9,010	660	3,250
1964	10,820	610	3,910
1965	12,740	690	4,720
1966	13,680	670	5,420
1967	11,920	650	4,000
1968	- 13,470	- 650	- 4,300

2. Investments in the past:	Approximate amount 1960 US \$	Type of investment
From 1958 to 1960 :	1,450	Machinery, standardisation of products
" 1961 " 1965 :	2,760	"
" 1966 " 1967 :	770	"
1968 :	240	"

3. Future Plan:

From 1969 to 1972:	2,320	Installation of new extruders to improve production and product mix. Modernisation of auxiliary operative shops. Expansion of welfare facilities.
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X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C - Confidential; figures of these size groups are included in underlined ones.

(1964) Electric wires and cables manufacturing (ISIC-Code: 370)

Industry	No. of estab.	No. of emp.	Av. W. & S. per pers. (US \$)	Av. gross prod.vol/ per pers. (US \$)	Av. value additions/ prod.vol. (US \$)	
1. Size groups by number of persons employed:						
up to 19	1	↓	0	0	0	
20 - 99	5	289	1,936	10,680	45	
100 - 499	6	3,768	2,155	12,528	42	
500 - 999	3	↑ 0	0	0	0	
over 1,000	-	-	-	-	-	
TOTAL:	15	4,057	2,140	12,397	42	

2. Size groups by annual value of production (1960 US \$):	No. of estab.	No. of emp.	Av. W. & S. per pers. (US \$)	Av. gross prod.vol/ per pers. (US \$)	Av. value additions/ prod.vol. (US \$)
up to 20	20	-	-	-	-
20 - 40	1	↓	0	0	0
40 - 200	200	1	0	0	0
200 - 400	4	↓	0	0	0
400 - 2,000	363	3,694	1,273	2,156	47
over 2,000	9	0	0	0	0

TOTAL: **15** **4,057** **2,140** **12,397** **42**

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services:		
1. Engineering study	1. Technical and managerial personnel	7. Import and export transaction
2. Financial assistance	6. Industrial training	8. Admission of foreign labour
3. Industrial services	7. Technical consultancy	
4. Equipment supply including I & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
3				

- 3 Company could render various industrial services:
- i) Production of cables and wires (lead or PVC insulated)
 - ii) Design of cables and wires
 - iii) Pre-investment and feasibility studies for cable works
 - iv) Delegation of experts to existing cable works.

7 "Know-how" agreements could be signed at any time.

8 The company reports great interest to import copper on long-term contracts in order to ensure stable and cheaper import prices. Export prices are very much affected by changes in international market prices. If necessary acceptance of copper in return for cables and wires.

XIII. SUPPLEMENTS & NOTES

Depreciation policy:

Both the straight-line and the accelerated methods are applied.

Contract and commission work:

The establishment drew wires for other companies on a commission basis. Total commission received: US \$ 54,000. The work is based on long-term agreements.

Bottlenecks and current problems:

Main bottlenecks which occurred in the drying and impregnation shop could be abolished. At present efforts are being made to reduce costs through economising various production processes.

Inventory policies:

The most common products are not only manufactured to order but also on stock. Frequently they are stocked up to two months. Nevertheless on the average the value of inventories of finished products amounts only to 5% of the total value of production.

Technological features:

Two cable manufacturing processes can be differentiated:

1. Manufacturing of cables and cable elements out of preformed semi-finished products of great length.
Technical requirements: Drawing machines, stranding machines, paper lapping machines, armouring machines, cabling machines, spinning machines, star quad twisting machines.
2. Thermoplastic insulation of cables and cable elements. Technical requirements: Drawing machines, lead presses, plastic extruders, impregnation units.

Major Products:

Refrigerators, freezers, automatic washing machines, electric motors, automatic grills.

Full capacity output amounts to approximately US \$ 17 million based on 3-shift operation.

Business year: 1/4/1967 - 31/3/1968.

Reporting Unit:

A one-establishment enterprise, privately owned; founded in 1959. 1,064 employees. Moderate company-conducted research activity. Large growth rate of production. Production partly under license agreements. Rather large participation of foreign capital. 80% exports.

I. FIXED CAPITAL ASSETS

(End of 1967)		Original purchase value (1000 US \$)	Replacement value (1000 US \$)	Avg age (Yrs.)
1 Primary process equipment (including installation cost)				
TOTAL		1,222	1,684	
- Process equipment *		1,577	1,534	6
- Hand tools & apparatus		151	156	-
2. Buildings		583	5,162	
TOTAL				
- Primary industrial buildings (total floor space: 11,500 m²)		307	1,500	10
- Auxiliary buildings		48	240	30
- Warehouses		77	387	7
- Office/administration buildings		19	97	25
- Housing		139	836	60
3. Auxiliary facilities (excl. buildings)		176	276	
TOTAL				
- Internal power equipment (Water, steam, energy)		132	220	30
- Laboratory facilities		22	28	3
- Means of transportation		17	21	5
- Office equipment		5	7	4
TOTAL PHYSICAL FIXED ASSETS (excluding land)		1,981	5,027	
4. Other fixed capital assets				
TOTAL		72	208	
- Land (total acreage: 30,800 m²)		57	171	-
- Land improvements (a.c.r. 23,000 m²)		9	27	-
- Others (7 cranes)		6	10	30

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1968 monthly average)		up to 100 US\$	100-140 US\$	140-160 US\$	160-240 US\$	240-560 US\$
1. Local non-operatives						
- Managers		-	-	-	-	5
- Engineers		-	-	-	-	25
- Technicians		-	2	2	20	21
- Accountants		-	-	-	-	-
- Sales officers		-	-	-	18	14
- Clerks and typists		-	9	7	19	-
- Supervisors		-	-	-	-	32
2. Local operatives						
- Supervisors (*)		-	-	-	13	-
- Foremen		-	-	-	117	-
- Skilled operatives		-	-	6	658	-
- Machine operators		-	-	-	-	-
- Craftsmen		-	-	-	-	-
- Truck drivers		-	-	-	-	-
- Unskilled operatives		-	35	18	13	-
- Other full-time operatives		-	-	-	-	-
- Part-time operatives		-	-	-	-	-
- Apprentices		30	-	-	-	-
3. Foreign employees						
- Managerial staff		-	-	-	-	-
- Technical staff		-	-	-	-	-
- Other skilled operatives		-	-	-	-	-
- Unskilled operatives		-	-	-	-	-

(*) Included in local non-operatives.

**NB: Details of process equipment and details of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	"
	local and city	excellent
Utilities:	electricity	excellent
	water	"
	gas	fair
Community:	residence	fair
	health and recreation	"
	education	poor (*)
Own Welfare Facilities:	Housing, clinic, canteen, recreation centre, soccer club.	
(*) Off-plant facilities for further training are lacking.		

III. INVENTORIES

(End of 1967)

	Annual value (1000 US \$)	Number of months
Inventories	1,402	
TOTAL		
- Production materials	703	1
- Other input materials	45	1.5
- Work-in-process	67	1
- Finished products	587	0.5

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day (*)	7.8	7.8	7.7	hours
Actual hours/year	2,070	2,070	2,050	hours
Actual days/year	276	276	276	days

(*) Actual

IV. MANNING TABLE

(number of persons)

		Total	1st Shift			2nd Shift		3rd Shift	
			A	B	C	D	E-D	E-D	E-D
ALL SHOPS & UNITS:		1,065	175	—	690	—	174	—	26
1. Primary operative shops		795	54	139	416	4	163	19	
- Freezer and refrigerator		512	31	104	248	2	108	19	
- Automatic washing machine shop		26	3	5	18	-	-	-	
- Electric motors		257	20	30	150	2	55	19	
2. Auxiliary operative units		172	23	—	131	—	11	—	7
- Repair & maintenance		38	1	—	37	—	2	—	1
- Mechanical shop		—	—	—	—	—	—	—	—
- Tooling shop		—	—	—	—	—	—	—	—
- Utilities control		12	6	—	4	—	1	—	1
- Product & material storage		55	14	—	41	—	—	—	—
- Off-site transport		16	1	—	13	—	2	—	—
- Guards, cleaners, etc.		15	—	—	11	—	2	—	2
- Others		36	1	—	28	—	4	—	3
3. Auxiliary non-operative units		98	98	—	—	—	—	—	—
- Production management		2	2	—	—	—	—	—	—
- Research & development		15	15	—	—	—	—	—	—
- Sales unit		21	21	—	—	—	—	—	—
- Accounting		48	48	—	—	—	—	—	—
- General administration		12	12	—	—	—	—	—	—

V. ANNUAL PRODUCTION

(1968)

Products for group of products

	Yr. of first prod.	Unit	Quantity produced	Avg. unit price ex factory	Total output value (US \$)
			Quantity		(1000 US \$)
Refrigerators	1960	pieces	63,540	3,275	206,940
Freezers (chests)	1962	"	48,151	4,953	235,600
Freezers (cabinets)	1967	"	7,103	5,28	37,000
Automatic washing machines	1964	"	4,883	1,001	4,883
Electric motors	1962	"	156,527	2,158	336,000
Automatic grills	1967	"	4,215	125	525

TOTAL VALUE OF PRODUCTION: 12,046

VI. VALUE ADDED

(1968)

	Total value (1000 US \$)
1. Annual wages & salaries	1,950
- Operative workers (1,990 personnel)	1,564
- Non-operative workers (1,167 personnel + 5 apprentices)	446
2. Other payments for employees	432
- Machinery & equipment	507
- Buildings & other facilities	28
- Stationary machinery	16
4. Rentals paid	3
5. Interest & royalties	7
6. Sales tax (from annual wage) (*)	22
7. Other indirect business taxes (*)	142
8. (-) Subsidies	7
B. Corporate income before tax	683

(*) Pay-roll transport tax

TOTAL VALUE ADDED: 3,809

DESCRIPTION OF MAJOR PRODUCTS:

Product	Type of production	Licenses agreement	Characteristics	Terms of delivery
Refrigerators	Serial	No	Defrosting system	2 months
Freezers	"	"	Constant freezing capacity	2 "
Automatic washing machines	"	Yes	Programme selection 100°C boiling temp.	2 "
Electric motors (up to 10 kW)	"	"	Special testing method	2 "
Automatic grills	"	"	Time switch	2 "

MARKET ASPECTS:

Consumers of products:

Households, electro-technical industry (electric motors), tourist industry.

Sales organisation:

Domestic market: Own staff of salesmen and representatives.

Foreign markets: Through parent company.

Share in the domestic market:

25%.

Sales areas:

Western Europe, Eastern Europe (especially Czechoslovakia), Indonesia, South Africa, South America.

Durability of products:

10 years. Higher quality than most of the imports.

EXPORT:

Total annual export US \$ 8.4 million.

Major products	To Western countries	To Eastern countries	To Developing countries
Refrigerators	86%	5%	10%
Freezers	100%	-	-
Electric motors	100%	-	-
Automatic grills	20%	80%	-
Automatic washing machines	100%	-	-

Price policy:

Keen international competition (Italy). Company reports losses resulting from domestic sales.

Since substantial over-all profits still prevail, exports are likely to be rather attractive.

VII. ANNUAL CONSUMPTION

(1968)

	Quantity consumed	Average import duties	Total consumption value (1000 US \$)
	Unit	Quantity	in \$ (**)
1. Energy and water			
TOTAL:			126
- Electricity	000 kWh	3,262	-
- Fuel oil	t	852	-
- Fuels	t	46	-
- Gas	000 m³	10,693	-
- Water	000 m³	68,000 (**)	-
2. Production materials			
TOTAL:			7,309
Parts of:			
- Refrigerators	pieces	63,540	61
- Freezers (chests)	"	48,151	61
- Freezers (cabinets)	"	7,103	61
- Automatic washing machines	"	4,883	92
- Electric motors	"	141,964	47
- Automatic grills	"	4,215	95

(**) Not including internal supply of 1,020 million m³ of water and 107.7 million m³ of steam.

(***) The import compensation tax equivalent to the domestic sales tax is not included. In case finished products are exported, import duties as well as the import compensation tax are refunded to the company.

3. Other materials & supplies

	Total consumption value (1000 US \$)
- Packaging material	77

- Parts, supplies & services

	Total consumption value (1000 US \$)
- Other materials & supplies	17

4. Business services purchased

	Total consumption value (1000 US \$)
- Transportation, storage & insurance	209
- Communication, advertising & other business services	209

5. Work performed by subcontractors

	Total consumption value (1000 US \$)
TOTAL VALUE OF CONSUMPTION:	8,237

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1.1.)		Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Ave. Age Yrs.	Remarks	SH Purchased second-hand	OS Other	Year of instal- lation	Daily running time	Output capacity
							R. Rented	SC Self-constructed			
Grinding machines	95	87.1	124.4	7	SH	(a)					
Drilling machines	105	39.8	56.9	7	SH	Austria, Denmark	1965, 1968	16 hrs	1,000 pcs.		
Welding machines	52	30.9	44.2	7	-						
Spraying machines	3	22.8	32.6	7	-						
Drawing machines	2	11.4	16.1	7	SH	(b)					cooling
Presses	3	22.4	32.0	7	-	Austria	1962	16 "	500 systems		
Wire stripping machines	7	15.1	21.5	5	partly SH	(c)					
Balancing machines	4	13.6	19.5	5	-	FR.Germ., Austria	1964	16 "	800 pcs.		
Pressure casting machines	2	30.1	43.0	2	-	Austria					
Foaming plant for polyurethan	{(a)}	3	41.1	59.1	5	SC	(d)				
Foaming plant for styropor	{(a)}	2	47.2	67.5	9	SC	FR.Germ., Austria	1964	16 "	800 pcs.	
Cooling system production plant	{(b)}	1	33.5	47.8	4	SH					
Automatic case processing machine	{(c)}	1	17.7	25.3	4	SH	Austria				
Trunnion bearing processing machine	{(d)}	1	59.4	84.9	4	SH					
Assembly lines	7	47.5	67.9	7	SC	(e)					
Drying and spraying cabinets	(e)	2	123.1	176.1	4	SH, SC	Austria,	1963	16 "	1,000 pcs.	
Bonding machine	1	39.8	56.9	4	SH, SC	FR.Germ.					
Other specialised machines	40	32.5	46.4	9	partly SH						
Lathes	41	94.6	135.1	6	-	Austria	1963	16 "	500 pcs.		
Presses	46	154.2	220.4	6	partly SC						
Dies	7	14.3	20.5	6	SH						
Sewing machines	32	12.6	18.0	8	SH						
Planing machines	7	6.8	9.7	6	SH						
Shaping machines	12	32.5	46.4	6	partly SH						
Other common type machines	35	40.6	58.1	9	partly SH						

CAPACITY POWER
Process equipment:
 - electric motors 937 kW
Generating equipment:
 installed capacity 210 kVA

Major primary operative shops	Kind of process involved	Mechanization:		C modern standard		Further details:
		A more advanced	B considerably high standard	D appreciably short of today's standard	E almost outdated	
Presses and refrigerators	Assembly-line production: Pressing - punching - drawing - welding - bonding - painting - assembly of semi-finished products	A	II			
Automatic washing machines	foaming of polyurethan - spraying - final assembly - packaging	A	II			
Electric motors		A	II			

CAPACITY UTILIZATION:

Full-capacity output: Estimated at some US \$ 17 million annually. This output would assume a three-shift operation. US \$ 1 million will have to be invested between 1969-1971 in order to achieve this full-capacity output estimate.

Current utilization: Based on two-shift operation (3rd shift operating at less than full capacity)

Major products by processes	up to 30	40	50	55	70	80	90	100
-----------------------------	----------	----	----	----	----	----	----	-----

Refrigerators	X
Presses	X
Automatic washing machines	X
Electric motors	X
Automatic grills	X

Low capacity utilization mainly due to keen foreign competition and insufficient supply of raw materials.

IX. HISTORY & PLAN

1. Performance in the past:	Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
Year: 1963	7,640	949	3,680
1964	9,460	1,088	5,090
1965	8,290	1,047	5,320
1966	9,940	1,076	6,830
1967	12,040	1,061	8,380
1968	- 14,220	~ 1,214	~ 10,150

In 1960 production was started for the first time.

Approximate amount 1960 US \$	Type of investment
From 1959 to 1967: 4,250	Buildings, machinery and equipment, tools.
1968: 147	"

The break-even point was surpassed for the first time in 1962 with sales exceeding US \$ 4,970,000.

3. Future Plan:

From 1969 to 1971:	970	Expansion, rationalisation and specialisation of product-mix, machinery and equipment, processing methods and operational shops. Employment of additional operatives necessary: 1st shift: + 200; 2nd shift: + 50; 3rd shift: + 20.
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X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1964)

Industry Manufacture of electrical machinery

(ISIC Code: 370)

1. Size groups by number of persons employed	No. of estab.	No. of emp.	Av. W. & S. per pers. 1960 US \$	Av. gross prod. val/ per pers. 1960 US \$	Av. value addition/prod. ratio (%)	2. Size groups by annual sales of production 1960 US \$:		Av. W. & S. per pers. 1960 US \$	Av. gross prod. val/ per pers. 1960 US \$	Av. value addition/prod. ratio (%)
						No. of estab.	No. of emp.			
up to 19	694	1,070	1,232	7,103	51	20	518	856	5,002	51
20 - 99	121	5,404	1,661	7,024	52	40	617	1,142	5,831	52
100 - 499	62	12,669	1,776	7,467	53	200	2,201	3,385	6,008	54
500 - 999	13	9,267	1,879	7,924	50	400	53	2,998	6,696	57
over 1,000	12	25,359	1,901	7,919	38	2,000	75	9,857	6,663	55
						over 2,000	41	39,278	1,901	42
TOTAL:	902	55,769	1,809	7,686	45			902	55,769	1,809

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- | | | |
|--|--------------------------------------|------------------------------------|
| Type of service | | |
| 1 Engineering study | 5 Technical and managerial personnel | 8 Import and export promotion |
| 2 Financial assistance | 6 Industrial training | 9 Administration of foreign labour |
| 3 Industrial services | 7 Technical consultancy | |
| 4 Equipment supply, installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of projects
1				The company is willing to prepare engineering studies for machine tool factories.
2				Extended terms of payment can be granted and public export promotion credits be secured.
3				"Know-how" agreements could be signed. Lay-out and installation of complete factories.
5				Staff could be provided at any level for the implementation of plants.
6				Can be furnished.
7				Pre-investment studies can be prepared within the framework of a comprehensive co-operation agreement.
8				All products are available for exports.
9				Foreign operatives could be admitted, however, language problems have to be considered.

XII. SUPPLEMENTS & NOTES

Contract and commission work:

The establishment annually various parts for other companies on commission basis. Total commission received: US \$ 1,780. The work is based on short-term agreements.

Bottlenecks and current problems:

Main bottlenecks which occurred in the milling and grinding section could almost be abolished. Personnel and space problems are still prevailing.

Technological features:

Parts are manufactured in series. Two different methods can be differentiated depending on the product concerned:

1. Production of parts with machines placed in serial connection.
Technical requirements: Mainly single-purpose machines.
2. Production of parts with machines placed in groups (turning, milling, grinding, etc), semi-finished parts are stocked until final assembly.
Technical requirements: Mainly multi-purpose machines.

V. ANNUAL PRODUCTION (Description of Major Products) (cont'd):

Miniature universal machine tools: The basic unit together with a few attachments permits almost all metalworking and woodworking operations. Designed for amateurs.

Hardness testing devices: Manual devices: portable instruments, unaffected by vibrations. Sample chucking. Various types which can be used for testing of lathe bed guide ways, rails and welded rail joints, wheel rims, internal surfaces, cylinder bores, tooth flanks on internal gears, etc.

Automatic hardness testing devices: Various models are manufactured to test specified hardness values of mass-produced parts. Replaces sample checking by a 100% production check.

X6. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services	
1. Engineering study	5. Technical and managerial personnel
2. Financial assistance	6. Industrial training
3. Industrial services	7. Technical consultancy
4. Equipment supply	8. Import and export transaction
	9. Admission of foreign labour
	10. Marketing & management

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

At present no areas for co-operation with developing countries are reported since the establishment has still difficulties to expand its capacity and to train operatives.

XII. SUPPLEMENTS & NOTES

Depreciation policy:

In 1968 annual depreciation amounted to US \$ 570,000. Both the straight-line (US \$ 494,000) and the accelerated methods (US \$ 76,000) were applied. Although investments were not higher than US \$ 147,000 in the reporting year future investments (1969 - 1971) seem to require some financial reserves.

Bottlenecks and current problems:

Lack of skilled administrative and technical personnel. Only limited labour market with almost no reserves. Retraining of miners and steel-workers envisaged. No public vocational schools available within proximity. Insufficient supply of raw materials. Unfavourable infrastructure with regard to roads, railways, postal service and automated telephone service. A most advanced internal transport system is under construction now.

Inventory policies:

On the average the value of finished products amounts to 5% of the total value of production. Inventories of finished products usually last no longer than 1/2 month.

Training:

Company has own apprenticeship and presently trains 5 apprentices. Off-plant facilities such as vocational schools are lacking. Company conducts own courses and delegates professionals to meetings organised by private institutions.

Future plans:

Increase of production and reduction of unit costs to secure stability of employment. Training of skilled workers. Expansion of production programme. Construction of residential estates as well as of canteens.

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

Major Products:

Bulbs, fluorescent lamps, radio valves, molybdenum wires, etc.
 Annual output amounted to approximately 10.5 million bulbs, 320,000 fluorescent lamps, 300,000 radio valves
 and about 22,000 km of molybdenum wire partly based on 1- to 2-shift operation.

Reporting Unit:

A one-establishment enterprise, founded in 1949, privately owned, joint stock company, 10% foreign capital participation; approx. 400 employees; largest national manufacturer of its branch; company manufactures over 90% of the output regulated by a cartel; 45 - 50% of production is exported. Company has license agreements with foreign enterprises both as licensee and licensor. No research activities.

I. FIXED CAPITAL ASSETS

(End of 1969)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Av. age (Yrs.)
1 Primary process equipment (**)	1,249	2,165	
(including installation cost)			
TOTAL	1,249	2,165	13
- Process equipment	1,249	2,165	
- Hand tools & apparatuses			
2 Buildings	11 (***)	390	
TOTAL	11 (***)	390	30
- Primary industrial buildings	11 (***)	377	
/total floor space: see "Plant" - m ²		377	
- Auxiliary buildings	11 (***)	13	
- Warehouses	11 (***)	10	
- Office administration buildings	11 (***)	23	
- Housing	11 (***)	14	
3 Auxiliary facilities (excl. buildings)	**	**	
TOTAL	**	**	
- Internal power equipment	**	**	
- Laboratory facilities	**	**	
- Means of transportation	17	17	
- Office equipment	**	**	
TOTAL PHYSICAL FIXED ASSETS (excluding land)	**	**	
4 Other fixed capital assets	**	**	
TOTAL	**	**	
- Land (total acreage: 17,12 m ²)	**	**	
- Land improvements	**	**	
- Others	**	**	

(**) including "Other fixed capital assets" except land.

(***) estimated values.

*NB: Detailed power equipment and capacity of primary operative shops are given on Page three (Section VIII).

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1969 monthly average)

	up to 100 US\$	100 US\$	140 US\$	160 US\$	240 US\$	400 US\$	over 560 US\$
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1. Local non operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists
- Others (supervisors)

2. Local operatives

- Supervisors
- Foremen
- Skilled operatives
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

Included in 1. and 2.

III. INVENTORIES

(End of 1969)

	Actual value (1000 US \$)	Number of months
Inventories	1,214	
TOTAL	1,214	
- Production materials	242	3-4
- Other input materials	135	0.5
- Work-in-process	60.0	5
- Finished products	807	

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day (*)	8.75	5	-	hours
Actual hours/year	2,050	1,150	-	hours
Actual days/year	236	236	-	days

(*) Actual; normal (1st shift); men work 9 hrs, women 8.8 hrs.

IV. MANNING TABLE

(number of persons)

Skill categories:
A Supervisory staff and foremen (for all shifts)
B Skilled operatives
C Semi-skilled operatives / machine operators
D Unskilled operatives

(1969 average)

Total	A	B	C	D	2nd shift	3rd shift
359	20	243	26	-	-	-

ALL SHOPS & UNITS:

1. Primary operative shops

Bulb department	136	5	113	12	-
Fluorescent lamps dept.	46.5	1.5	32	13	-
Wire drawing and spiral manufacturing dept.	25	1	23	1	-
Chemistry dept.	7.5	1.5	6	-	-

2. Auxiliary operative units

Repair & maintenance	14.5	2.5	12	-	-
Mechanical shop	-	-	-	-	-
Tooling shop	-	-	-	-	-
Utilities control	7.5	2.5	5	-	-
Product & material storage	17	3	14	-	-
Off-site transport	14	2	12	-	-
Quarre, cleaners, etc.	20	-	20	-	-
Others (TV-repair shop)	3	3	-	-	-

3. Auxiliary non-operative units

Production management	2	2	-	-	-
Research & development	-	-	-	-	-
Sales unit	32	32	-	-	-
Accounting	12	12	-	-	-
General administration	22	22	-	-	-

(work programming, technical office)

V. ANNUAL PRODUCTION

(1968)	Yr of first prod.	Quantity produced Unit	Avg. unit price ex factory (US \$)	Total output value (1000 US \$)
Products (or group of products)		Quantity		
Bulbs	1968	100 per	10,122	1,462
Fluorescent lamps	1968	" "	666	171
Radio valves	1968	" "	157	24
Molybdenum wire (commission work)	1968	" "	1,143	84
Others (semi-finished products, mercury vapour lamps)				8
				2,068

TOTAL VALUE OF PRODUCTION: 2,068

VI. VALUE ADDED

(1968)	Total value (1000 US \$)
1. Annual wages & salaries	1,116
- Operative workers	1,116
1. " " personal	1,116
- Non-operative workers	1,116
1. " " personal	1,116
2. Other payments for employees	1,116
3. Annual depreciation	1,116
- Machinery & equipment	1,116
- Buildings & other facilities	1,116
- Non-financial capital assets	1,116
4. Rentals paid	1,116
5. Interest & royalties	1,116
6. Sales tax	1,116
7. Other indirect business taxes	1,116
8. (-) Subsidies	1,116
9. Corporate income before tax	1,116
(*) Land tax, property tax	1,116
	TOTAL VALUE ADDED: 1,116

DESCRIPTION OF MAJOR PRODUCTS:

Bulbs: The company has a broad production programme which includes standard-sized bulbs, low-voltage bulbs, candle, pony, pearl and bulb-shaped bulbs, various types of miniature bulbs to illuminate technical equipment, and bulbs as used by the automobile industry. Serial production; high quality; up to 1,000 hrs burning time for standard lamps and 10,000 hrs burning time for special bulbs; prompt delivery for domestic consumption; terms of delivery for exports between 3 - 6 months. Packed in units of 8 - 10 pieces.

Fluorescent lamps: of various shades and wattages. Serial production. Terms of delivery same as for bulbs.

Radio valves: Packed in units of 10 - 100 pieces; terms of delivery same as for bulbs. Production of radio valves was terminated by the end of the reporting year.

MARKET ASPECTS:

Re-sellers:

Fluorescent lamps, special discharge lamps, head lights, miniature lamps, dry-cell batteries, TV-sets, stereorecorders, tape recorders, lamps.

Consumers of products:

95% private households, 5% industrial enterprises and public utilities.

Sales organisations:

Domestic: Representatives, sales depots. Abroad: Direct selling to large-scale enterprises, sometimes employment of market research agencies. Production only to order.

Extent of the market:

Approximately 1,500 domestic wholesalers are supplied.

Share in the domestic market:

The enterprise supplies about 26% of the domestic market (including imports) which is about equal to 31% of the domestic production as fixed by the cartel agreement. Slight pressure on prices due to imports.

EXPORT:

Total annual export: 1,116

Major products	To Western countries	To Eastern countries	To Developing countries
Bulbs	95%	-	-
Fluorescent lamps	100%	-	-
Radio valves	60%	40%	-

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6, has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1968)	Quantity consumed Unit	% Import	Average import value (1000 US \$)	Total consumption value (1000 US \$)
1. Energy and water				53
TOTAL:				53
- Electricity	000 kWh	1,200		32
- Coke	t	208		6
- Petrol, diesel oil	000 l	16		2
- Gas	000 m ³	335		10
- Water	000 m ³	28		3
2. Production materials				634
TOTAL:				634
- Glass bulbs	000 pcs	13,075	100	3
- Pump valves, glass rods	t	91.6	100	41
- Electrodes	000 pcs	28,865	100	5
- Spirals	" "	13,045	100	12
- Lamp sockets	" "	12,280	100	-
- Soldering wires	t	2.7	100	7
- Thin mica plates	000 pcs	803	100	1
- Cathode valves	" "	446	100	7
- Others	-	-	-	111

3. Other materials & supplies	Total consumption value (1000 US \$)
TOTAL:	27
- Packaging material (included in VII.2)	-
- Parts, supplies & services	17
- Other materials & supplies	10
4. Business services purchased	119
TOTAL:	119
- Transportation, storage & insurance	60
- Communication, advertising & other business services	149
5. Work performed by subcontractors	-
TOTAL:	-
TOTAL VALUE OF CONSUMPTION:	952

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1 Engineering study	1 Technical and managerial personnel	A Import and export management
2 Financial assistance	2 Industrial training	B Utilisation of foreign labour
3 Industrial services	3 Technical consultancy	
4 Equipment supply	4 Installation & maintenance	

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

3

Since the enterprise operates as licensee itself, company reports no interest to sign know-how contracts with bulb producing companies in developing countries.

XII. SUPPLEMENTS & NOTES

Commission work:

In order to utilise the capacity of the molybdenum wire drawing department as much as possible, the company sometimes engages in wire drawing on commission basis.
Total commission received amounted to US \$ 90,000.

Bottlenecks in the past:

In the past the enterprise mainly suffered from lack of personnel. Within the near future the company intends to reorganise its production process. Particular emphasis will be put on labour-saving investments.

Depreciation policy:

The enterprise applies the straight-line method only.

Inventories policy:

Value of finished products in stock amounts to 12% of the total value of production.

Training courses:

Staff-members are sent to off-plant courses on management development, data processing, etc.

Major Products: Plastic coated cables, plastic coated linens, jumper wires and strands.
In 1967 total output amounted to 940 t of plastic coated cables 22,800 km of plastic coated conductors and 40 t of jumper wires and strands, buned on 2-shift operation.

Reporting Unit: A branch of a 2-establishment enterprise, founded in 1940; privately owned; 220 employees; 10% exports; own research and development facilities.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)			
TOTAL	943	1,131	
- Process equipment *	64	1,157	10
- Hand tools & apparatuses	13	84	-
2. Buildings	111	532	8
TOTAL	111	532	8
- Primary industrial buildings (total floor space: 7,100 m ²)	99	414	8
- Auxiliary buildings	-	-	-
- Warehouses	42	61	6
- Office administration buildings	40	57	5
- Housing	-	-	-
3. Auxiliary facilities (excl. buildings)	72	93	
TOTAL	72	93	
- Internal power equipment	-	-	-
- Laboratory facilities	14	14	3
- Means of transportation	7	9	7
- Office equipment	31	40	2
TOTAL PHYSICAL FIXED ASSETS (excluding land)	1,356	1,806	
4. Other fixed capital assets	170	317	
TOTAL	170	317	
- Land (total acreage: 1,400 m ²)	0	-	-
- Land improvements (a.c.: 7,100 m ²)	0	207	-
- Others	72	90	9

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	Up to 100 US\$	100 US\$	140 US\$	160 US\$	240 US\$	Over 560 US\$
1. Local non-operatives						
- Managers	-	-	-	-	1	4
- Engineers	-	-	-	2	4	-
- Technicians	-	-	1	20	16	-
- Accountants	1	-	-	3	3	-
- Sales officers	-	1	1	5	2	-
- Clerks and typists	-	4	6	23	8	-
2. Local operatives						
- Supervisors	-	-	-	-	-	-
- Foremen	-	-	2	3	1	-
- Skilled operatives }	-	-	-	-	-	-
- Machine operators	-	57	13	17	-	-
- Craftsmen	-	4	5	13	1	-
- Truck drivers	-	-	-	2	6	-
- Unskilled operatives	6	19	9	7	-	-
- Other full-time operatives	-	4	-	4	-	-
- Part-time operatives	-	-	-	-	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	1	-	-	-	-
- Unskilled operatives	1	12	4	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	excellent
	internal long distance	"
	local and city	"
Utilities:	electricity	"
	water	"
	gas	"
Community:	residence	fair
	health and recreation	"
	education	"
Own Welfare Facilities:	-	

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories	653	
TOTAL:		
- Production materials	155	2.5
- Other input materials	-	-
- Work-in-processes	155	2.5
- Finished products	343	1.5

IV. MANNING TABLE

(number of persons)

(1967 average)

	Total	Skill categories:			
		A. Supervisory staff and foremen (for all shifts)	B. Skilled operatives	C. Semi-skilled operatives (machine operators)	
		1st Shift	2nd Shift	2nd Shift	
		A	B	C	D
ALL SHOPS & UNITS:	219	54	-	136	28
1. Primary operative shops	124	15	3	72	7
- Stranding department	34	4	-	22	1
- PVC-processing dept.	?	-	-	2	-
- PV-coating dept.	23	3	-	17	3
- Dryness testing section	12	1	-	6	1
- Winding dept.	15	1	-	7	1
- Testing section	11	4	-	7	-
- Enamelling dept.	4	-	-	2	-
- Spinning and braiding dept.	22	1	3	9	1
- Inspection	1	1	-	-	-
2. Auxiliary operative units	81	26	-	53	1
- Repair & maintenance	22	4	-	18	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	-	-	-	-	-
- Utilities control	7	2	-	5	-
- Product & material storage	19	4	-	15	-
- Off-site transport	9	1	-	8	-
- Guards, cleaners, etc.	9	-	-	7	1
- Others (planning and work programming)	15	15	-	-	-
3. Auxiliary non-operative units	14	13	-	1	-
- Production management	1	1	-	-	-
- Research & development	4	3	-	-	-
- Sales unit	-	-	-	-	-
- Accounting	6	6	-	-	-
- General administration	9	3	-	-	-

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift
Shift hours/day	9.6(*)	9(*)	13.1(*)
Actual hours/year	2,133	2,007	2,920
Actual days/year	223	223	223

(*) Actual hours due to overtime regular working time: 8 hrs.

V. ANNUAL PRODUCTION

(1967)	Vr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (000 US \$)
Products for group of products					
Plastic coated cables	..	t	844	..	1,568
Plastic coated telephone lines	..	km	22,814	..	1,828
Jumper wires and strands	..	t	40	..	228
TOTAL VALUE OF PRODUCTION:					3,624

VI. VALUE ADDED

(1967)	Total value (000 US \$)
1. Annual wages & salaries	1,067
- Operative workers	1,067
- Non-operative workers	163
2. Other payments for employees	68
3. Annual depreciation	134
- Machinery & equipment	104
- Buildings & other facilities	29
- Non-physical capital assets	1
4. Rentals paid	0
5. Interest & royalties	29
6. Sales tax	175
7. Other indirect business taxes (*)	34
8. (-) Subsidies	0
9. Corporate income before tax (**)	199
(*) Payroll tax, car tax, land tax, etc.	
(**) See page 4/XII	
TOTAL VALUE ADDED:	
	1,071

DESCRIPTION OF MAJOR PRODUCTS:

Plastic coated cables and lines: Insulated with high quality thermoplastics (PVC), insensitive to humidity and chemicals, highly mechanically resistant, colourproof, incombustible. Single and multi-conductor cables and lines, light and heavy types.

Plastic coated cables have less weight and are easier to lay and cheaper than steel armoured cables. Cables are delivered in drums. Plastic coated lines have less weight and are cheaper than lead-coated lines. Lines are packed in units of 50 and 100 m. Both, cables and lines, can be promptly delivered.

Jumper wires: Blank or tinned copper wire insulated with high quality thermoplastics; used for telecommunication and broadcasting engineering; terms of delivery: 2 months; delivered on 200-m reels.

Strands: Delivered on 200-m reels.

All products: Serial production.

MARKET ASPECTS:

Consumers of products:

Postal administration; railroads; ministry of defense; electro-technical industry; wholesalers.

Sales organisation:

The enterprise has its own sales department. 3 sales depots and 4 representatives (company employees) service the domestic market.

Share in the domestic market:

The enterprise holds a share of 10 - 15%.

EXPORT:

Total annual export: US \$ 140,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Plastic coated cables	20%	80%	-
Plastic coated telephone lines	20%	80%	-
Jumper wires and strands	20%	80%	-

Export price policy:

Export prices are adjusted according to international competition.

Competition in the market:

No domestic price competition due to cartel agreements. Very little competition resulting from imported products.

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6. has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity	% import	Average import value (000 US \$)	Total consumption value (000 US \$)
1. Energy and water					35
TOTAL:					
- Electricity	000 kWh	920		27	27
- Gas coke	t	14		1	1
- Fuel oil	t	90		3	3
- Gas	000 m ³	60		2	2
- Water	000 m ³	25		2	2
2. Production materials					2,210
TOTAL:					
- Thermoplaste	t	948	24.5	9	560
- Copper	t	1,155	-	-	1,638
- Miscellaneous (natural silk, rayon, cotton, steel ropes, paints, etc.)	-	..	-	-	12

3. Other materials & supplies

TOTAL:	85
- Packaging material (drums, reels, etc)	34
- Parts, supplies & services	42
- Other materials & supplies	9

4. Business services purchased

TOTAL:	212
- Transportation, storage & insurance	12
- Communication, advertising & other business services	25
- Proportional overhead costs of the central office	175

5. Work performed by subcontractors

TOTAL:	11
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TOTAL VALUE OF CONSUMPTION: **2,453**

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (II.1.)

	<u>Number</u>	<u>Original purchase value (1000 US \$)</u>	<u>Replace-ment value (1000 US \$)</u>	<u>Ave. age (yr)</u>	<u>Supplier country</u>	<u>Year of instal-lation</u>	<u>Daily running time</u>
Twisting machines	3	18	22	10	Austria, FR.Germ.	1953-1963	
Stranding machines	19	320	106	11	France, FR.Germ., Austria, FR.Germ.	1955-1960	
PVC processing equipment	1	21	8	1		1967	
PVC extruding machines	13	284	342	9	Switzerl., FR.Germ.	1948-1960	The total process
Dryness testing devices	7	4	6	14	Austria	1954	equipment
Winding machines	16	69	87	12	France, Belgium, Austria	1951-1961	is utilized
Wire lacquering furnaces	4	7	10	18	SC	-	11 hrs/day
Spinning machines	38	29	43	15	FR.Germ., France, USA	1951-1961	
Braiding machines	35	56	76	10	FR.Germ., France	1957-1962	
Pumping equipment	1	1	92	3			
Paper cutting machine	1	5	31	15	FR.Germ.	1953	
Wire welding machines	23	7	2	9			
Scales	10	2	8	9			
Transport equipment	10	28	2	7			
Others	62	73	22	10			

CAPACITY POWER:

Process equipment:
- electric motors kW 2,200

Generating equipment:

- installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

<u>Major primary operative shops</u>	<u>Kind of process involved</u>	<u>Mechanization:</u>		<u>C moderate standard</u>		<u>Automation:</u>	
		<u>A: most advanced</u>	<u>B: considerably high standard</u>	<u>C: moderately standard</u>	<u>D: appreciably short of today's standard</u>	<u>E: almost outdated</u>	<u>I: fully automated</u>
Stranding department				C	II		
PVC processing dept.				C	II		
PVC coating dept.				C	II		
Dryness testing section	No specifications given			-	II		
Winding dept.				C	II		
Testing section				C	II		
Enamelling dept.				C	II		
Spinning and braiding dept.				C	II		

CAPACITY UTILIZATION:

Full-capacity output: US \$ 4.7 million.

Current utilization: based on 2-shift operation

<u>Major products for process</u>	<u>up to 30</u>	<u>30 to 60</u>	<u>60 to 80</u>	<u>80 to 90</u>	<u>90 to 100</u>	<u>100</u>	<u>Approximate %</u>
	<u>up</u>	<u>to 30</u>	<u>30 to 60</u>	<u>60 to 80</u>	<u>80 to 90</u>	<u>90 to 100</u>	
Plastic coated cables			x				
Plastic coated telephone lines			x				
Tinper wires			x				
Strands			x				

In order to achieve full-capacity output 100 additional operatives would be required: 30 on the 2nd shift and 70 on the 3rd shift.

IX. HISTORY & PLAN

1. Performance in the past:

<u>Year:</u>	<u>Total output (1000 US \$)</u>	<u>No. of persons employed</u>	<u>Total output (1000 US \$)</u>
1963	2,950	235	120
1964	3,630	235	160
1965	3,800	241	170
1966	4,060	219	200
1967	3,600	219	190
1968	3,870	224	390

2. Investments in the past:

<u>Approximate amount (1000 US \$)</u>	<u>Type of investment</u>
From 1955 to 1967: 1,500	Purchase of land, buildings and machinery.

3. Future Plan:

<u>From 1969 to 1973:</u>	<u>390</u>	<u>The company intends to reorganize part of the production process.</u>
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X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of those size groups are included in those underlined.

(1964)

Industry Electric wires and cables manufacturing (ISIC Code: 370)

<u>1. Size groups by number of persons employed:</u>	<u>No. of establs.</u>	<u>No. of emplo.</u>	<u>Ave. W. & S. per pers. (US \$)</u>	<u>Ave. gross prod. val./per pers. (US \$)</u>	<u>Ave. value added/gross prod. ratio (%)</u>	<u>2. Size groups by annual sales of production (1000 US \$):</u>	<u>No. of establs.</u>	<u>No. of emplo.</u>	<u>Ave. W. & S. per pers. (US \$)</u>	<u>Ave. gross prod. val./per pers. (US \$)</u>	<u>Ave. value added/gross prod. ratio (%)</u>
up to 10	1	1	1,330	10,600	45	up to 20	20	1	1	1	1
20 - 30	0	0	1,330	10,600	45	20 - 40	1	0	0	0	0
30 - 40	0	0	1,330	10,600	45	40 - 400	1	0	0	0	0
40 - 400	0	0	1,330	10,600	45	400 - 2,000	4	363	1,273	2,397	48
over 2,000	0	0	1,330	10,600	45	over 2,000	0	3,694	2,156	12,592	42
TOTAL	15	4,057	1,330	10,600	45	TOTAL:	15	4,057	2,140	12,397	43

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- | | | |
|--|--------------------------------------|------------------------------------|
| Type of services | | |
| 1 Engineering study | 5 Technical and managerial personnel | 8 Import and export promotion |
| 2 Financial assistance | 6 Industrial training | 9 Administration of foreign labour |
| 3 Industrial services | 7 Technical consultancy | |
| 4 Equipment supply, installation & maintenance | | |

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects
3				The establishment is interested in providing short-term and long-term know-how contracts.
5				The company is prepared to send experts to developing countries.
8				All products could be exported to developing countries.
9				The company employs foreign operatives.

XII. SUPPLEMENTS & NOTES

Ad VI.9 (VALUE ADDED):

This profile covers only one establishment of a company which consists of two establishments and one central office.

The second establishment is a drawing mill producing copper wires and copper strands. Its total value of production amounts to US \$ 2,045,000. The value added to some US \$ 363,000.

The central office engages in marketing, accounting, purchasing, designing, research and development as well as in general administration. The total overheads of the central office are charged to the accounts of the two manufacturing establishments. The one covered by this profile is charged with US \$ 175,000 on central overheads, the copper wire drawing mill with US \$ 308,000. The corporate income before tax is an imputed one, with zero income for the central office, US \$ 199,000 for the establishment evaluated and US \$ 119,000 for the copper wire drawing.

Commission work:

In cases of bottleneck or breakdown of machinery the company asks subcontractors to take over part of the work programme. In the reporting year, however, commissions paid amounted only to US \$ 11,000.

Current problems:

The enterprise suffers from lack of space.

History of investment:

The company was originally founded in 1940. Up to 1954 its production took place in rented premises. Acquisition of own production facilities and resumption of production in the same year. Accrual of profits in 1955.

Major Products: Bare and insulated wires and rods of non-ferrous metals.
Capable of producing annually about 2,500 t based on 1- to 3-shift operation. Full-capacity output amounts to US \$ 4,5 million.

Reporting Unit: A one-establishment enterprise; privately owned; founded in 1930; 190 employees; modest research activity in the field of insulation; most machines are self-constructed; 20% export.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)	..	1,765	
TOTAL	..	1,610	13
- Process equipment *	..	155	-
- Hand tools & apparatuses	..		
2. Buildings	336	540	
TOTAL	86	224	15
- Primary industrial buildings (total floor space: 25,000 m ²)	86	224	15
- Auxiliary buildings	-	-	-
- Warehouses	19	26	10
- Office administration buildings	231	290	6
- Housing			
3. Auxiliary facilities (excl. buildings)	132	170	7
TOTAL	74	104	10
- Internal power equipment			
- Laboratory facilities	32	35	2
- Means of transportation	26	31	8
- Office equipment			
TOTAL PHYSICAL FIXED ASSETS (excluding land):	..	2,475	
4. Other fixed capital assets	..	213	
TOTAL	..	213	-
- Land (total acreage: 46,000 m ²)	..	213	-
- Land improvements (i.e., 14,000 ")	..	-	-
- Others	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	No information available.
	internal long distance	
	local and city	
Utilities:	electricity	
	water	
	gas	
Community:	residence	
	health and recreation	
	education	
Own Welfare Facilities:	Housing	

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories	1,370	
TOTAL:		
- Production materials	1,355	12
- Other input materials	15	2
- Work-in-process	-	-
- Finished products	-	-

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day:	8	8	8	hours
Actual hours/year:	2,180	2,180	2,180	hours
Actual days/year:	270	-	-	days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

up to 100 US\$	100 US\$	140 US\$	140 US\$	160 US\$	160 US\$	240 US\$	over 360 US\$
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1. Local non-operatives

Managers	-	-	-	-	-	-	2
Engineers	-	-	-	-	-	-	-
Technicians	-	2	2	14	2	-	-
Accountants	-	-	-	-	-	-	-
Sales officers	-	-	-	-	-	-	-
Clerks and typists	2	1	2	1	-	-	-
Others	1	1	-	-	-	-	-

2. Local operatives

Supervisors	-	-	-	-	-	-	-
Foremen	-	1	6	4	-	-	-
Skilled operatives	-	3	9	3	-	-	-
Machine operators	-	-	1	1	-	-	-
Craftsmen	-	4	5	3	-	-	-
Truck drivers	-	-	-	-	-	-	-
Unskilled operatives	1	-	1	-	-	-	-
Other full-time operatives	38	22	-	-	-	-	-
Part-time operatives	6	2	-	-	-	-	-

3. Foreign employees

Managerial staff	-	-	-	-	-	-	-
Technical staff	-	-	-	-	-	-	-
Other skilled operatives	-	-	-	-	-	-	-
Unskilled operatives	4	32	6	-	-	-	-

IV. MANNING TABLE

(Number of persons)

(1967 average)

Skill categories: A. Supervisory staff and foremen (for all shifts)
B. Skilled operatives
C. Semi-skilled operatives (machine operators)
D. Unskilled operatives

Total	A	B	C	D	2nd Shift	3rd Shift
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187	33	124	-	24	6
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ALL SHOPS & UNITS:

1. Primary operative shops	140	14	15	60	23	23	5
- Rolling mill	18	2	-	13	3	-	-
- Pressing shop	3	1	2	-	-	-	-
- Wire drawing dept.	52	3	7	20	14	6	2
- Rod drawing dept.	17	2	3	12	-	-	-
- Stranding dept.	14	-	1	4	4	5	-
- Insulating dept.	32	5	2	8	2	12	3
- Foundry	4	1	-	3	-	-	-

2. Auxiliary operative units

- Repair & maintenance (*)	26	4	20	-	1	1
- Mechanical shop	-	-	-	-	-	-
- Tooling shop (incl. above)	-	-	-	-	-	-
- Utilities control	1	1	-	-	-	-
- Product & material storage	2	1	-	1	-	-
- Off-site transport	4	1	-	3	-	-
- Guards, cleaners, etc.	6	4	-	2	-	-

3. Auxiliary non-operative units

- Production management	2	2	-	-	-	-
- Research & development	4	4	-	-	-	-
- Sales unit	2	2	-	-	-	-
- Accounting	-	-	-	-	-	-
- General administration	-	-	-	-	-	-

(*) Including tool shop

Major Products:

Turret and chuck lathes.
Capable of producing annually 58,000 t of machine tools based on 1-shift operation. Full-capacity output approximates US \$ 17.6 million.

Reporting Unit:

A one-establishment enterprise; privately owned; founded in 1942; 1,670 employees; licensed production of multiple spindle automatic chucking machines; own research and development activity; 50% exports.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchas- e value (1000 US \$)	Replace- ment value (1000 US \$)	Ave age (Year)
1. Primary process equipment (including installation cost)	4,896	6,089	
TOTAL	4,516	5,494	7
- Process equipment *	370	595	-
- Hand tools & apparatus			
2. Buildings	2,418	3,310	
TOTAL			
- Primary industrial buildings (total floor space: 31,130 m ²)	1,153	1,639	10
- Auxiliary buildings	644	962	10
- Warehouses	248	326	12
- Office administration buildings	226	335	10
- Housing	43	133	11
3. Auxiliary facilities (excl. buildings)	1,198	1,304	
TOTAL	211	324	10
- Internal power equipment			
- Laboratory facilities	90	52	12
- Means of transportation	53	31	15
- Office equipment	114	114	6
TOTAL PHYSICAL FIXED ASSETS (excluding land)	7,127	8,713	
4. Other fixed capital assets	317	311	
TOTAL			
- Land (total acreage: 7.165 m ²)	11	11	-
- Land improvements (1.000 m ²)	130	130	6
- Others			

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

Up to 125 US\$	126- 160 US\$	161- 200 US\$	201- 300 US\$	>1,000 US\$	over 1,000 US\$
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1. Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists

-	-	-	-	7	-
-	-	-	52	177	-
-	-	8	117	71	-
-	-	-	-	-	-
-	-	-	43	68	-
-	14	48	71	41	-

2. Local operatives

- Supervisors (*)
- Foremen
- Skilled operatives }
- Machine operators
- Craftsmen
- Truck drivers
- Unskilled operatives
- Other full-time operatives
- Part-time operatives

-	-	-	29	9	-
-	23	83	89	-	-
-	32	96	140	-	-
-	-	-	-	-	-
-	21	73	31	-	-
-	27	116	134	-	-
-	-	-	-	-	-

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives
- Other employees

-	-	-	-	-	-
-	-	-	2	-	-
-	-	3	16	-	-
-	-	19	37	-	-
-	-	-	1	1	-

(*) Included in local non-operatives.

*NR: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport	external long distance	fair
	internal long distance	
	local and city	
Utilities	electricity	
	water	excellent
	gas	
Community	residence	
	health and recreation	
	education	excellent
Own Welfare Facilities	-	

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories	6,743	
TOTAL		
- Production materials	1,111	3
- Other input materials	-	-
- Work-in-process	5,148	1.1
- Finished products	490	0.5

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	
Shift hours/day	8.1	-	-	hours
Actual hours/year	1,780	1,761	-	hours
Actual days/year	219	214	-	days

IV. MANNING TABLE

(Number of persons)

Skill categories: A. Supervisory staff and foremen (for all shifts)
B. Skilled operatives
C. Semi-skilled operatives (machine operators)
D. Unskilled operatives

(1967 average)

V. ANNUAL PRODUCTION

(1967)	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (1000 US \$)
Copper wire (bare)	1950	t	407	1,551	632
Copper rods (bare)	"	"	59	1,792	106
Copper wire (insulated)	"	"	376	1,884	709
Bronze ropes and wire	"	"	150	1,756	263
Aluminium wire (bare)	"	"	82	873	72
Aluminium wire (insulated)	"	"	56	1,971	110
Steel-aluminium ropes	"	"	62	797	49
Other alloys	"	"	133	1,242	165
Revenue from contract and commission work			..	..	522
TOTAL VALUE OF PRODUCTION:				2,628	

DESCRIPTION OF MAJOR PRODUCTS:

Serial production of bare and insulated wires and rods of non-ferrous metals.
 Packing units: cable drums and reels.
 Short terms of delivery even for special designs, since company is well prepared to manufacture in small series.

MARKET ASPECTS:

Consumers of products:

Electro-technical industry.

Sales organisation:

Central sales office; representatives abroad.

Share in the domestic market:

20 - 30%.

Major foreign sales areas:

South-Eastern Europe, Sweden.

Competition in the market:

The company is facing keen domestic and international competition.

VI. VALUE ADDED

(1967)	Total value (1000 US \$)
1. Annual wages & salaries	478
- Operative workers	331
(152 personnel)	
- Non-operative workers	147
(33 personnel)	
2. Other payments for employees	117
3. Annual depreciation	86
- Machinery & equipment	
- Buildings & other facilities	
- Non-physical capital assets	
4. Rentals paid	12
5. Interest & royalties	13
6. Sales tax	77
7. Other indirect business taxes	1
8. (-) Subsidies	-
9. Corporate income before tax	204
TOTAL VALUE ADDED:	988

TOTAL VALUE ADDED: 988

EXPORT:

Total annual export: US \$ 416,000.

Major products	To Western countries	To Eastern countries	To Developing countries
Bare and insulated wires	50%	50%	-

Export price policy:

Adaption to world market prices.

Governmental policies:

The government subsidizes exports by way of repaying the sales tax accumulated on all exported goods during the present and previous transactions. The sales tax indicated under VI.6, has been adjusted accordingly.

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed Unit	Quantity	% import	Average import duties	Total consumption value (1000 US \$)
1. Energy and water					70
TOTAL:					70
- Electricity	000 kWh	1,600	-	-	32
- Coal and coke	t	85	-	-	3
- Fuel oil	t	220	-	-	11
- Petrol and diesel	t	..	-	-	6
- Gas	000 m ³	700	-	-	18
2. Production materials					1,316
TOTAL:					1,316
- Metals, fluxes and insulating material	000 t	~1,400	75	2	1,316

	Total consumption value (1000 US \$)
3. Other materials & supplies	82
TOTAL:	82
- Packaging material (cable drums, reels, ebon timber, corrugated paper, sodium-paper)	12
- Parts, supplies & services	49
- Other materials & supplies	21
4. Business services purchased	172
TOTAL:	172
- Transportation, storage & insurance	121
- Communications, advertising & other business services	51
5. Work performed by subcontractors	-
TOTAL:	-
TOTAL VALUE OF CONSUMPTION:	1,640

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)	Number	Original Purchase Value (\$000 US \$)	Replace- ment value (\$000 US \$)	Av. Age (yr.)	Supplier country	Year of instal- lation	Remarks:
							SH: Purchased second-hand
Vertical press	1	..	54	30	SH (*)	Germany	1940
Welding machines	4	..	43	7	SH (*)	Switzerl.	1966
Stranding machines	4	124	248	9	SH (*)		
Rod drawing machines	5	..	240	8	SH/SC	Italy	1962
Wire drawing machines	15	..	348	12	SH/SC	-	..
Insulating machines	10	..	464	6	SH/SC	-	..
Gantry cranes	9	..	77	15	SH	-	1965
Other conveying systems	..	..	135	15	SH	-	..

(*) So far, almost all machines have been purchased second-hand in order to be adapted to company's requirements. Therefore, the process equipment cannot be compared with equipment otherwise available.

(*) partly

CAPACITY POWER:
Process equipment:
- electric motors kW ..

Generating equipment:
- installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization		C: moderate standard		Automation		Further details: Capacity output		Capacity utilization	
		A: most advanced	B: considerably high standard	D: appreciably short of today's standard	E: almost / outdated	I: fully automated	II: non-automated	Capacity output	Capacity utilization	Capacity output	Capacity utilization
Rolling mill		C	III	2 shifts	240 t/month			50%			
Processing shop		C	III	1 shift	20 t/month			50%			
Wire drawing department		C	II	2 shifts	150 t/month			30%			
Rod drawing department		C	III	1 shift	20 t/month			50%			
Stranding department		C	III	..	40 t/month			50%			
Insulating department		B	II	3 shifts	50 t/month			60%			

CAPACITY UTILIZATION:

Full capacity output: US \$ 4,500,000.

Current utilization: Based on 1- to 2-shift operation.

Major products (or processes)	up to 30 40 50 60 70 80 90 100							
	Approximate %	to 30	40	50	60	70	80	90	100

Wires x
Rods x
Ropes x
Plates (mainly commission work) x

The current under-utilization of the existing capacity is mainly due to lack of demand.

IX. HISTORY & PLAN

1. Performance in the past:

Year	Total output (\$000 US \$)	No. of persons employed	No. of exports (\$000 US \$)
1963	2,480	172	370-390
1964	2,500	174	"
1965	2,610	182	"
1966	2,600	179	"
1967	2,630	185	420
1968	2,710	180	460

2. Investments in the past:

From 1955 to ..	Appreciation amount (\$000 US \$)	Type of investment
..	80 annually	Buildings and machinery

3. Future Plan: No date available.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of these size groups are included in those underlined.

(1964)

Industry Electric wires and cables manufacturing (ISIC-Code: 370)

1. Size groups by number of persons employed:	No. of estab.	No. of emp.	Av. W. & S. per pers. (\$US \$)	Av. gross prod. val./per pers. (\$US \$)	Av. value added/gross prod. ratio (%)	2. Size groups by annual sales of production (\$000 US \$):		Av. W. & S. per pers. (\$US \$)	Av. gross prod. val./per pers. (\$US \$)	Av. value added/gross prod. ratio (%)	
						up to 20	20 - 40	40 - 400	400 - over 2,000		
up to 19	1	..	C	10,680	45	-	1	1	3	C	
20 - 99	5 ↓	289	1,936	10,680	45	C	C	C	C	C	
100 - 499	6	3,758	2,155	12,528	43	40 -	400	1	363	1,973	48
500 - 999	3 ↑	C	C	C	C	400 -	2,000	4	3,694	2,156	42
over 1,000	-	-	-	-	-	over	2,000	9	12,692	-	-
TOTAL:	15	4,057	2,140	12,397	43	TOTAL:	15	4,057	2,140	12,397	43

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of services		
1. Engineering study	3. Technical and managerial personnel	6. Import and export transaction
2. Financial assistance	4. Industrial training	7. Technical consultancy
3. Industrial services	5. Industrial equipment	8. Administration of foreign labour
4. Equipment supply,		
Installation & maintenance		

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of project

8

The company is interested in exporting its products to developing countries, however, is not able to grant any long-term supplier credits.

XII. SUPPLEMENTS & NOTES

Current problems:

Company reports lack of capital to finance urgent investments. Therefore, new owners of equity capital will soon have to join the company partly replacing retiring one's.

Presently, company utilises only 50% of its capacity. Since most departments are operating on 2 shifts, company tries to improve flexibility of production programming in order to ensure international competitiveness and to increase capacity utilization.

Commission work:

Company draws wires and rods and rolls plates on commission basis. Commission received in 1967 amounted to US \$ 522,000.

Depreciation policy:

Both the straight-line and the accelerated methods of depreciation were applied.

Training:

Courses in management development had been attended by several employees.

Inventory policy:

The enterprise keeps inventories of raw copper for a 12-months period in order to avoid adverse effects of price fluctuations.
Finished products are usually not stored.

Major Products: Rolled copper wires (coils). Full-capacity output amounts to 15,000t annually, based on 1-shift operation.

Reporting Unit: A branch of a two-establishment enterprise. Although originally founded in 1911 machinery and equipment must meet advanced standards. Fully automated in 1960. Majority of share capital is privately owned, the rest belongs to the public. Favourable location. 113 employees. Production is entirely based on commission work. The raw material (copper bars) is supplied by some 10 major customers.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including installation cost)	988	1,444	-
TOTAL	988	1,444	..
- Process equipment	988	1,444	..
- Hand tools & apparatuses			
2. Buildings	93	116	
TOTAL	93	116	
- Primary industrial buildings (total floor space: 1,970 m ²)	77	97	59
- Auxiliary buildings	16	19	20
- Warehouses	-	-	-
- Office administration buildings	-	-	-
- Housing	-	-	-
3. Auxiliary facilities (excl. buildings)	-	-	
TOTAL	-	-	
- Internal power equipment			
- Laboratory facilities			
- Means of transportation			
- Office equipment			
TOTAL PHYSICAL FIXED ASSETS (excluding land):	1,081	1,560	
4. Other fixed capital assets	80	120	
TOTAL	80	120	
- Land (total acreage: 2,019 m ²)	80	120	
- Land improvements	-	-	
- Others	-	-	

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	up to 100 US\$	100- 140 US\$	140- 160 US\$	160- 240 US\$	240- 560 US\$	over 560 US\$
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1. Local non operatives

- Managers	-	-	-	3	2	-
- Engineers	-	-	-	-	-	-
- Technicians	-	2	-	-	-	-
- Accountants	-	3	4	-	1	-
- Sales officers	-	1	2	-	1	-
- Clerks and typists	-	3	3	1	-	-

2. Local operatives

- Supervisors	-	-	-	4	1	-
- Foremen	-	-	-	-	-	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators	-	-	10	30	-	-
- Craftsmen	-	-	-	15	-	-
- Truck drivers	-	-	-	-	-	-
- Unskilled operatives	-	26	-	-	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-

3. Foreign employees

- Managerial staff	-	-	-	-	-	-
- Technical staff	-	-	-	-	-	-
- Other skilled operatives	-	-	-	-	-	-
- Unskilled operatives	-	-	-	-	-	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	excellent
	local and city	"
Utilities:	electricity	fair
	water	"
	gas	"
Community:	residence	-
	health and recreation	excellent
	education	fair
Own Welfare Facilities:	Clinic, sportsfield, canteen, photo club, chess club.	

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories		
TOTAL:		
- Production materials	1/2	
- Other input materials	1/2	
- Work-in-process	1/2	
- Finished products	1/2	
Material supplied by customers		

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day: (*)	8.5	-	-	hours
Actual hours/year	2,038	-	-	hours
Actual days/year	242	-	-	days

IV. MANNING TABLE

(Number of persons)

	Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
--	-------	---	---	---	---	-----------	-----------	-----------

Skill categories: A. Supervisory staff and foremen (for all shifts)
B. Skilled operatives
C. Semi-skilled operatives (machine operators)
D. Unskilled operatives

ALL SHOPS & UNITS:

1. Primary operative shops

Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
113	29	-	84	-	-	-	-
10	2	-	7	1	-	-	-

- Rod rolling mill

Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
10	2	-	7	1	-	-	-
10	2	-	7	1	-	-	-

2. Auxiliary operative units

	86	10	76	-	-
- Repair & maintenance	24	2	-	-	-
- Mechanical shop	-	-	-	-	-
- Tooling shop	-	-	-	-	-
- Utilities control	1	1	-	-	-
- Product & material storage	13	-	13	-	-
- Off-site transport	15	-	15	-	-
- Guards, cleaners	33	7	26	-	-
and other auxiliary units					

3. Auxiliary non-operative units

	17	17	-	-	-
- Production management	1	1	-	-	-
- Research & development	-	-	-	-	-
- Sales unit	10	10	-	-	-
- Accounting	6	6	-	-	-
- General administration	-	-	-	-	-

V. ANNUAL PRODUCTION

(1967)	Yr. of first prod.	Quantity produced	Avg. unit price ex factory (US \$)	Commission work (1000 US \$)
Products (or group of products)	Unit	Quantity		
Rolled copper wire (coils), 7 mm width	t	15,391	34	519
				TOTAL VALUE OF PRODUCTION: 519

VI. VALUE ADDED

(1967)	Total value (1000 US \$)
1. Annual wages & salaries	749
- Operative workers	164
(94 personnel)	
- Non-operative workers	85
(29 personnel)	
2. Other payments for employees	80
3. Annual depreciation	116
- Machinery & equipment	1
- Buildings & other facilities	116
- Non-physical capital assets	
4. Rents paid	-
5. Interest & royalties	-
6. Sales tax	7
7. Other indirect business taxes	-
8. (-) Subsidies	-
9. Corporate income before tax	30
	TOTAL VALUE ADDED: 482

DESCRIPTION OF MAJOR PRODUCTS:

Copper bars are roughed down to copper wires (coils) of 7mm diameter in a fully automated continuous process. Copper coils can be stocked in open air, however, usually they are shipped immediately to the suppliers of the copper bars.

Transport by rail or road. Short term delivery if raw material is available.

MARKET ASPECTS:

Consumers of products:

Metalworking industry, essentially wire mills which reduce this wire to even lower diameters

Sales organisation:

The establishment has an own sales organization. Production only to order with copper bars being supplied by customers. Due to high raw material prices and the large amounts of capital being tied up, the company decided not to produce on stock.

Market and competition:

Presently the enterprise covers only the domestic market. A second shift could be run immediately enabling the establishment to perform commission work for foreign customers as well. The geographic situation is favourable for exports to both Western and Eastern countries. Sales prospects, however, are directly related to costs of transportation since the copper bars as well as the copper wires have to be moved. The share in the domestic market amounts to 100%.

EXPORT:

Total annual export: no exports.

Major products	To Western countries	To Eastern countries	To developing countries
-	-	-	-

VII. ANNUAL CONSUMPTION

(1967)	Quantity consumed	Average import duty	Total consumption value (1000 US \$)
	Unit	Quantity	
1. Energy and water			
TOTAL:			37
- Electricity	000 kWh	1,100	21
- Heavy fuel oil	t	70	2
- Light fuel oil	t	400	11
- Water	000 m ³	806	3
2. Production materials			-
TOTAL:			-

Copper bars are supplied by contractors.

3. Other materials & supplies	Total consumption value (1000 US \$)
TOTAL:	-
- Packaging material	-
- Parts, supplies & services	-
- Other materials & supplies	-
4. Business services purchased	-
TOTAL:	-
- Transportation, storage & insurance	-
- Communication, advertising & other business services	-
5. Work performed by subcontractors	-
TOTAL:	-

TOTAL VALUE OF CONSUMPTION: 37

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (S.I.)	Number	Original Purchase Value	Replaced value	Avg. Age (yrs)	C: Estimated Remaining Service	Supplier country	Year of installa- tion	Output capacity	Daily running time
		(RS 100 US \$)	(RS 100 US \$)						
Oil heated oven	1	56	58	6	-	Germ., F.R.	1960	12 t/hr	1.5 shifts
Roughing mill	1				-	"	"	"	1 shift
Intermediate mill	1	680	970	6	-	"	"	"	1 "
Finishing mill	1				-	"	"	"	1 "
Crane	1	135	194	20	-				
Pumping station	2	54	77	10	-				
Lift truck	1	5	8	5	-				
Oil tank	1	27	39	10	-				
Scale	1	12	19	10	-				
Transformer station	1				-				
Lathe	2	10	12	3	-				

Major primary operative shop	Kind of process involved	Mechanization:	A. most advanced B. considerably high standard	C. moderate standard D. apparently short of today's standard E. almost outdated	Automation:	
					I. Fully automated	II. non-automated
Rolling mill	Copper bars are roughed down to copper wires	A	I			
	Copper bars are placed into an oil heated copper gravity-discharge oven and heated up to about 800°C. The heated copper bars are carried by automatically regulated rolls to roll sets in which they are roughed down to copper wires of 250 meters length and 7 mm diameter.					

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; figures of those size groups are included in those underlined.

(1964)

Industry Electric wires and cables manufacturing

ISIC-Code: 370

1. Size groups by number of persons employed:	No. of estab.	No. of emp.	Avg. W. & S. per pers. (US \$)	Avg. gross prod. val./per pers. (US \$)	Avg. value added/gross prod. ratio (%)	2. Size groups by annual rate of production (US \$ US \$):	No. of estab.	No. of emp.	Avg. W. & S. per pers. (US \$)	Avg. gross prod. val./per pers. (US \$)	Avg. value added/gross prod. ratio (%)
up to 19	1	6	C	C	C	up to 20	-	-	C	C	C
20 - 99	5	289	1,936	10,680	45	20 - 40	1	1	C	C	C
100 - 499	6	3,768	2,155	12,528	43	40 - 400	1	1	C	C	C
500 - 999	3	C	C	C	400 - 2,000	4	363	1,973	9,397	48	
over 1,000	-	-	-	-	over 2,000	9	3,694	2,156	12,692	42	
TOTAL:	15	4,057	2,140	12,397	43	TOTAL:	15	4,057	2,140	12,397	43

XII. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services
- 1. Engineering study
 - 2. Financial assistance
 - 3. Industrial services
 - 4. Equipment supply,
 - 5. Technical and managerial personnel
 - 6. Industrial training
 - 7. Technical consultancy
 - 8. Import and export transaction
 - 9. Admission of foreign labour
- Installation & maintenance

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of projects
3				Pre-investment and feasibility studies for copper rolling works could be supplied. If required, even in return for copper.
7				Know-how agreements for the manufacturing of rolled copper wires could be provided together with experts.
8				Establishment reports interest in importing copper on long-term contracts to ensure stable production costs. If necessary, acceptance of copper in return for rolled copper wires.

XIII. SUPPLEMENTS & NOTES

Contract and commission work: The establishment rolls wires for other companies on commission basis. Total commission received in 1967 amounted to US \$ 520,000. The work is based on long-term contracts.

Bottlenecks and current problems: Bottlenecks only occur if the number of orders increases seasonally to such an extent that one additional shift could only be utilized up to 10% or 20%.

Depreciation policy: Both the straight-line and the accelerated methods are applied.



74.09.12

V. ANNUAL PRODUCTION

(1967)

Products (or group of products)

	Yr. of first prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (000 US \$)
Turret lathes, hand-operated	1950	t	6,833	320.6	2,191
Turret lathes, automatic	1965	t	5,650(**)	228.0	1,288
Front-operated, single and two-spindle automatic chucking lathes	1960	t	14,302	238.4	3,403
Multiple-spindle automatic chucking machines	1952	t	23,465(**)	250.0	6,054
Others	1951	t	6,445	247.0	1,592

(*) Not including internal consumption of 131 t.

(**) Not including internal consumption of 71 t.

TOTAL VALUE OF PRODUCTION: 14,534

VI. VALUE ADDED

(1967)

	Total value (000 US \$)
1. Annual wages & salaries	5,590
- Operative workers (719 persons)	2,640
- Non-operative workers (721 persons)	3,044
2. Other payments for employees	132
3. Annual depreciation	581
- Machinery & equipment	451
- Buildings & other facilities	111
- Non-physical capital assets	21
4. Rents paid	102
5. Interest & royalties	306
6. Sales tax	58
7. Other indirect business taxes (*)	4
8. (-) Subsidies	-
9. Corporate income before tax	573
(*) Motor vehicle and transport tax.	
TOTAL VALUE ADDED:	8,161

DESCRIPTION OF MAJOR PRODUCTS:

Hand-operated and numerically controlled turret lathes and single-spindle automatic chucking machines are manufactured in single or serial production. Multiple-spindle automatic chucking machines are produced under licence agreements. The basic aggregates of all machine tools are mostly manufactured in series; the fixtures are produced on order as desired by the customer.

MARKET ASPECTS:

Re-sales:

In order to equip the machine tools manufactured, the company also sells various kinds of tools.

Consumers of products:

Automobile industry, manufacturers of ball bearings and presses, electrical industry, mechanical industry.

Sales organization:

Own sales and advertising department.
Domestic: sales offices and salesmen.
Abroad: independent sales organization.

Share in the domestic market:

Hand-operated and automatic turret lathes: 68%.
Multiple-spindle automatic chuck lathes: 21%.
Front-operated single and two-spindle automatic chuck lathes: 21%.

Share in the foreign market:

Hand-operated and automatic turret lathes: 7%.
Multiple-spindle automatic chuck lathes: 5%.
Front-operated single and two-spindle automatic chuck lathes: 2%.

EXPORT:

Total annual export: 10% (7,620),000.

Major products	To Western countries	To Eastern countries	To Developing countries
Turret lathes	34%	54%	10%

Export price policy:

Export prices are adjusted to world market prices.

VII. ANNUAL CONSUMPTION

(1967)

	Quantity consumed Unit	Quantity	% Import	Average import duties	Total consumption value (000 US \$)
1. Energy and water					188
TOTAL:					
- Electricity	000 kWh	3,735	-	-	107
- Fuel oil	t	195	-	-	19
- Gasoline, diesel	l	122,606	-	-	19
- Gas	000 m ³	12,902	-	-	14
- Water	000 m ³	58,241	-	-	9
2. Production materials					4,498
TOTAL:					
- Grey iron	t	2,747	-	-	687
- Steel	t	1,454	-	-	364
- Cast steel	t	606	-	-	152
- Non-ferrous metals	t	826	5	4	206
- Electric and hydraulic parts	000 pieces	7,433	-	-	1,858
- Purchased parts	000 pieces	4,923	3	3	1,231

3. Other materials & supplies

TOTAL:	Total consumption value (000 US \$)
- Packaging material (wooden cases, oil paper)	12
- Parts, supplies & services	371
- Other materials & supplies	442

4. Business services purchased

TOTAL:	Total consumption value (000 US \$)
- Transportation, storage & insurance	67
- Communication, advertising & other business services	654

5. Work performed by subcontractors

TOTAL:	Total consumption value (000 US \$)
	141

TOTAL VALUE OF CONSUMPTION: 6,373

VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (N.1):

Number	Original Purchase Value 1960 US \$	Replace- ment value 1960 US \$	Ave. Age (yr.)	Remarks	Further details:
Circular grinding machine	1 45	50	5		
Surface grinding machine	1 36	40	5		
Polygon grinding machine	1 30	33	4		
Turret-head boring mill	1 71	78	4		
Toothed-wheel rotary tempering machine	1 14	15	4		
Milling cutter and boring mill	1 13	15	4		
Folding press	1 24	25	3		
Automatic chuck-lathe	1 29	30	3		
Vertical boring mill	1 46	48	3		
Tooth-flank grinding machine	1 53	54	2		
Boring mill	1 135	139	2		
Super-finish boring mill	1 194	198	2		
Lathe tooling center	1 264	265	1		
Other specialized machinery	295 2,848	3,547	8		
Turning lathes	3 11	20	16		
Universal milling cutter	1 3	5	16		
Tool-grinding machine	1 2	3	15		
Universal high-speed milling cutter	1 8	11	11		
Other universal machinery	81 690	917	10		

CAPACITY POWER:

Process equipment:

- electric motors kW 2,367

Generating equipment:

- installed capacity kVA -

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization:		C. moderate standard	Automation:
		A. most advanced	B. considerably high standard		
Machine shop (for large parts)		A	II		
Grinding department		B	II		
Lathe slide manufacturing department		B	III		
Milling department		A	II		
Machine center		A	I		
Drilling department		B	II		
Automatic lathes department		A	I		
Tool shop		C	III		
Production of single parts		B	III		

CAPACITY UTILIZATION:

Full-capacity output: US \$ 17,625,000 based on 1-shift operation.

Current utilization:

Major processes for production	Approximate %							
	10	20	30	40	50	60	70	80

Turret lathes

Front-operated, one and two-spindle
automatic chucking lathesMultiple-spindle automatic chucking
lathes

Company considers the available capacity as being fully utilized.

IX. HISTORY & PLAN

1. Performance in the past:

Year:	Total output 1960 US \$	No. of persons employed	Total exports 1960 US \$
1963	13,610	1,657	5,106
1964	12,980	1,571	4,670
1965	14,580	1,634	4,440
1966	14,730	1,627	6,660
1967	14,530	1,670	7,620
1968	16,260	1,783	~ 9,500

2. Investments in the past:

Approximate amount 1960 US \$	Type of investment
From 1959 to 1960 : 210	Administrative building, in-process storage facilities.
" 1962 " 1964 : 940	Primary industrial buildings, storage facilities.
in 1967 : 1,430	

3. Future Plan:

From 1967 to 1969 :	Approximate amount 1960 US \$	Expansion of operative shops; rationalization of machinery and equipment as well as internal flow of material. 50 additional operatives will be required on the 1st shift.
620		

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

C = confidential; these figures are included in total.

(1962) Manufacture of machinery,
except electrical machinery

Industry	(ISIC Code: 360)					
	No. of plants	No. of empl.	Av. W. & S. per plant 1960 US \$	Av. sales per plant 1960 US \$	Av. sales ratio W. & S.	Av. sales ratio W. & S.
1. Size groups by number of persons employed	No. of plants	No. of empl.	Av. W. & S. per plant 1960 US \$	Av. sales per plant 1960 US \$	Av. sales ratio W. & S.	Av. sales ratio W. & S.
up to 19	1,931	11,501	1,737	1,893	62	62
20 - 99	2,071	102,211	1,311	1,375	59	59
100 - 499	1,313	289,759	1,900	1,961	57	57
500 - 999	200	135,237	2,133	2,421	56	56
over 1,000	184	571,100	2,132	3,194	56	56
TOTAL:	5,743	1,110,958	1,011	3,212	54	54
TOTAL:	5,743	1,110,958	1,011	3,212	54	54

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of services:
- 1. Engineering studies
 - 2. Financial assistance
 - 3. Industrial services
 - 4. Equipment supplies
 - 5. Technical and managerial personnel
 - 6. Industrial training
 - 7. Technical consultancy
 - 8. Installation & maintenance
 - 9. Import and export transaction
 - 10. Admission of foreign skilled

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects

The enterprise is prepared to participate in industrial projects.

Apart from this know-how contracts and license agreements could be signed.

XII. SUPPLEMENTS & NOTES

Commission work:

Single parts and structural components; commission paid:
US \$ 141,000.

Bottlenecks in the past:

Lack of personnel and suitable production facilities.

Training courses:

Company employees participated in courses and seminars dealing with data processing, accounting, cost calculation and general business administration.

Inventories policy:

On the average the value of finished products in stock amounts to 3.5% of the total value of production.

Major Products: Ball supports, ball cages, standard ball bearings and rollers, steering wheel spindle-cup & cone bearings, ball boxes and shafts, stamped metal parts, rings, plastic parts, tread rollers, hubs and wheels, tools.
In 1967 the total value of production amounted to approximately US \$ 7 million based on 2- and 3-shift operation. Full-capacity output amounts to US \$ 11 million.

Reporting Unit: A one-establishment enterprise; founded in 1909; privately owned. Although the establishment is rather old, its machinery and equipment meet modern standards. 420 employees; 18% exports; little need production; research and development activities.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Ave. age (Yrs.)
1 Primary process equipment (including installation cost)	...	5,150	
TOTAL	...	5,150	..
- Process equipment *	...	5,150	..
- Hand tools & apparatuses			
2 Buildings	...	2,333	
TOTAL	...	2,333	
- Primary industrial buildings (total floor space: 1,200 m ²)	1,113	16	
- Auxiliary buildings	613	14	
- Warehouses	273	14	
- Office administration buildings	137	12	
- Housing			
3 Auxiliary facilities (excl. buildings)	121		
TOTAL	121	96	
- Internal power equipment			
- Laboratory facilities	11	1	
- Means of transportation	32	5	
- Office equipment	232	6	
TOTAL PHYSICAL FIXED ASSETS (excluding land):	7,614		
4 Other fixed capital assets	...	700	
TOTAL	...	700	
- Land (total acreage: 12,500 m ²)	...	700	
- Land improvements (tarmac, gr., etc.)			
- Others		96	

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	up to 125 US\$	125- 160 US\$	160- 200 US\$	200- 300 US\$	300- 1,000 US\$	over 1,000 US\$
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1. Local non-operatives

- Managers
- Engineers
- Technicians
- Accountants
- Sales officers
- Clerks and typists

2. Local operatives

- Supervisors
 - Foremen
 - Skilled operatives
 - Machine operators
 - Craftsmen
 - Truck drivers
 - Unskilled operatives
 - Other full-time operatives
 - Part-time operatives
- Company considers supervisors and foremen as local non-operatives.

3. Foreign employees

- Managerial staff
- Technical staff
- Other skilled operatives
- Unskilled operatives

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	fair
	internal long distance	fair
	local and city	fair
Utilities:	electricity	excellent
	water	insignificant
	gas	fair
Community:	residence	fair
	health and recreation	fair
	education	fair

Own Welfare Facilities: Recreation home; pension fund.

III. INVENTORIES

(End of 1967)

	Actual value (1000 US \$)	Number of months
Inventories	194	
TOTAL	194	
- Production materials	447	3
- Other input materials	99	3.5
- Work-in-process	166	0.5
- Finished products	432	1

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
Shift hours/day	8	8	8	hours
Actual hours/year	1,834	1,834	1,834	days
Actual days/year	229	229	229	

IV. MANNING TABLE

(Number of persons)

Skill categories: A Supervisory staff and foremen (for all shifts)
B Skilled operatives
C Semi-skilled operatives (machine operators)
D Unskilled operatives

(End of 1967)

ALL SHOPS & UNITS:

Total	A	B	C	D	1st Shift	2nd Shift	3rd Shift
574	33	146	298	17	141	9	
574	33	131	124	12	123		
221	45	175			1		
221	24	-			-		
221	11	-			-		
221	1	36			1		
221	1	-			-		
221	4	83			-		
221	2	25			-		
221	1	3			-		
221	1	19			-		

1. Primary operative shops

- Cutting and noncutting metal processing dept.
- Tempering and surface treatment department
- Plastic parts processing department
- Assembly
- Shipping department

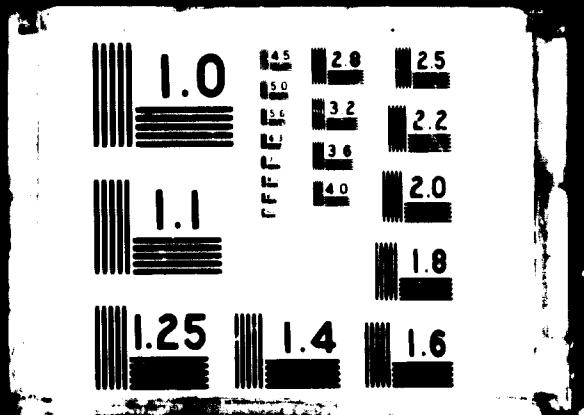
2. Auxiliary operative units

- Technical office
- Production programming
- Others
- Repair & maintenance
- Mechanical shop
- Tooling shop
- Utilities control
- Product & material storage
- Off-site transport
- Guards, cleaners, etc.

3. Auxiliary non-operative units

- Production management
- Research & development
- Sales unit
- Accounting
- General administration

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Major Products: Electrical control units and parts for household domestic appliance industry.
Four shift operation. Capacity revenue output with 1968 plant was about US \$ 8,000,000. Capacity is being steadily increased in the face of fast-growing derived demand.

Reporting Unit: A one-establishment medium-large size operation; part of an international industrial complex; privately owned by foreign capital; founded in 1958; current plant constructed in 1965. Partly patented production of products whose "design-turnover" or "obsolescence" period is about 3 years.

I. FIXED CAPITAL ASSETS

(End of 1968)		(**) Book value (1000 US \$)	Ave. age (Yrs.)
1. Primary process equipment (including insulation cost)			
a. TOTAL	602	3-4	
- Process equipment	549		
- Hand tools & apparatuses	53		
b. TOTAL: Equipment under construction	92		
2. Buildings	1,595	3	
- Primary industrial buildings (total floor space: 8,800 m²)			
- Auxiliary buildings	1,595		
- Warehouses			
- Office administration buildings			
- Housing	-		
3. Auxiliary facilities (excl. buildings)	119	..	
TOTAL			
- Internal power equipment (included in 1.)	-		
- Laboratory facilities	3		
- Means of transportation	1		
- Office equipment	83		
- Employee welfare equipment	24		
TOTAL PHYSICAL FIXED ASSETS (excluding land).	2,408	..	
4. Other fixed capital assets	119	-	
TOTAL			
- Land (total acreage: 55,000 m²)	119		
- Land improvements	-		
- Others	-		

(**) Replacement values are not available.

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

EXTERNAL CONDITIONS:

Transport	air: poor	fair;
	external long distance sea/rail: good.	
	internal long distance good	
	local and city fair/good	
Utilities	electricity good	
	water: local system poor; own well: good	
	gas irrelevant	
Community	residence fair	good
	health and recreation fair/poor	
	education fair	
	- training: poor	
Own Welfare Facilities	excellent; clinic, restaurant, recreation, locker room.	

III. INVENTORIES

(End of 1968)		Actual value (1000 US \$)	Number of months
Inventories (rough estimates)			
TOTAL	2,050		
- Production materials	700	3	
- Other input materials	50	varies	
- Work-in-process	1,300	?	
- Finished products			

Inventories of finished products:
1. 1.1968: US \$ 1,803,000
31.12.1968: US \$ 1,700,000

WORKING TIME PER OPERATIVE WORKER:

	1st shift (*)	2nd shift	3rd and 4th shift	hours
Shift hours/day	8	7	7	hours
Actual hours/year	1,768	2,000	2,000	hours
Actual days/year	234	234	284	days

(*) 5-day week; other shifts: 6-day week.

II. MONTHLY GROSS WAGES AND SALARIES

(1968 monthly average)		up to 80 US\$	80-160 US\$	160-320 US\$	320-480 US\$	over 480 US\$
1. Local non-operatives						
- Managers						
- Engineers	-	-	-	3	11	
- Technicians	-	-	7	4	2	
- Accountants	-	-	5	5	3	
- Sales officers	-	-	2	2	3	
- Clerks and typists	-	11	38	4	-	
2. Local operatives						
- Supervisors						
- Foremen	-	-	26	9	-	
- Semi-skilled operatives	-	443	145	-	-	
- Machine operators	-	2	44	-	-	
- Craftsmen, electricians, etc.	-	2	51	-	-	
- Truck drivers	-	-	-	-	-	
- Unskilled operatives	-	-	-	-	-	
- Other full-time operatives	-	2	18	-	-	
- Part-time operatives	-	-	-	-	-	
3. Foreign employees						
- Managerial staff						
- Technical staff	-	-	-	-	1	
- Other skilled operatives	-	-	-	-	-	
- Unskilled operatives	-	-	-	-	-	

IV. MANNING TABLE

(End of 1968)		Number of personal	Shift categories: A. Supervisory staff and foremen (for all shifts) B. Skilled operatives C. Semi-skilled operatives (machine operators) D. Unskilled operatives			
		556 women				
		290 men				
		846				
	Total	A	1st shift B-D	2nd shift B-D	3rd shift B-D	4th shift B-D
ALL SHOPS & UNITS:	846	59	568	101	100	18
1. Primary operative shops	588	12	174	91	91	15
A. Primary parts						
- Bakelite holding	16	1	3	6	6	-
- Bakelite stamping	14	1	1	4	4	4
- Sub-assembly	35	1	36	24	24	-
- Dice	56	2	34	8	9	-
B. Finished products						
- Motor protector	165	1	123	13	12	6
- Combination units	31	2	37	-	-	-
- Starter relays	129	1	81	23	23	1
- Integrated circuits	22	1	21	-	-	-
- Thermostats	61	1	39	9	9	4
2. Auxiliary operative units						
- Repair & maintenance						
- Plant services	12	3	4	-	-	-
- Tooling shop	21	1	23	-	-	-
- Utilities control	-	-	-	-	-	-
- Product & material storage	26	-	26	-	-	-
- Laboratories	9	1	7	-	-	-
- Quality control	34	1	16	3	7	2
- Purchasing, inspection	18	-	17	-	-	-
- Others, incl. cafeteria and canteen	6	-	6	-	-	-
3. Auxiliary non-operative units						
- Production management						
- Research & development	5	2	6	-	-	-
- Sales unit	13	5	5	-	-	-
- Accounting	13	5	13	-	-	-
- General administration	32	8	24	-	-	-
- Technical production control	11	8	11	-	-	-
- Others (Purchasing)	8	3	5	-	-	-

IV. ANNUAL PRODUCTION

(1967)
Products (or group of products)

	Yr. of first prod.	Quantity produced	Nominal capacity output	Unit & price in factory (US \$)	Total production value (1000 US \$)
		Unit	Output		(average)
Automobiles Model 1 (small)	1960	pieces	7,385	9,520	3,644 26,912
Model 2 (medium)	1965	"	2,793	3,599	5,020 14,021
Model 3 (large)	1960	"	5,556	7,167	5,756 31,980
Light-duty trucks	1925	"	2,311	2,994	3,088 7,136
Heavy-duty trucks	1925	"	5,407	6,960	4,644 25,110
					TOTAL VALUE OF PRODUCTION 105,159
* including sales-tax					

COMPETING IMPORTS:

EXPORTS:	Products	Price of competing imports		Benefits due to exports
		Price c.i.f. (without tariff)	Tariff rate	
Automobiles Model 1 (small)	US \$ 2,256		115 %	
Model 2 (medium)	" 2,448		120 %	
Model 3 (large)	" 2,768		125 %	
Light-duty trucks	" 2,012		380 %	
Heavy-duty trucks	" 2,889		362 %	

CAPACITY UTILIZATION:

Due to insufficient capacity of the assembly department and to governmental restrictions, the capacity of the motor and foundry section could not be fully utilized. Additionally, caused by a strike in the supplier country, some 1,500 units were produced less in 1967 than normally.

V. ANNUAL CONSUMPTION

(1967)		Quantity consumed			Total consumption value (1000 US \$)
		Unit	Purchase	% imported	
1. Energy and water					766
TOTAL:					
- Electricity	000 kWh	34,700	-	-	595
- Gas	m ³	360	-	-	22
- Other liquid fuels and lubricants	000 m ³	..	-	-	2
- Natural gas	000 m ³	2,460	-	-	117
- Water	000 m ³	1,380	-	-	30
2. Production materials					78,158
TOTAL					
- Motors and transmissions		32	5-100 ad val.	9,636	
- Axles, wheels, springs and chassis		20	5-100 ad val.	13,544	
- Screens		4	5-100 ad val.	1,354	
- Paints and lubricants		..	-	689	
- Tyres		-	-	3,901	
- Parts of bodies		100	US cts 3 per gross kg and 40% ad val. (average)	6,497	
- Upholsteries and cushionings		-	5-90 ad val.	1,227	
- Others		32	"	41,310	

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965)
Industry group: Manufacture of motor vehicles (ISIC: 383)

1. Size groups by number of persons employed:	Number of establish.	Number of emplo.	Ave. W. & L. prod. val. (US \$)	Ave. gross prod. val. (US \$)	Ave. exp. gross prod. ratio (%)
up to 5	5,138	14,067	342	1,151	37
6 - 15	760	6,363	645	2,002	77
16 - 100	134	5,786	1,249	7,196	106
over 100	336	35,921	1,851	13,311	91
	TOTAL	6,168	62,137	1,330	8,831 90
2. Size groups by size of annual production (1000 US \$):					
up to 2	6,565	11,676	856	566	35
2 - 8	3,617	11,121	344	1,222	34
8 - 40	857	7,969	648	1,910	76
40 - 120	182	4,327	942	3,061	70
over 120	200	35,024	1,958	14,456	93
	TOTAL	11,421	70,117	1,179	7,914 90

* Capital is defined as physical capital assets.

VI. VALUE ADDED

(1967)	Value (1000 US \$)
1. Wages & salaries	
- Employees in direct production (2,498 persons)	1,114
- Other employees (1,292 persons)	5,054
2. Other payments for employees	4,777
3. Annual depreciation	7,099
4. Rentals paid	337
5. Interest & royalties	176
6. Sales tax	1,316
7. Other ind. bus. taxes	2,028
8. (-) Subsidies	(-69)
9. Corporate income before tax	2,438
	22,238

VII. MONTHLY EARNING RATES

No. of persons empl.	Average earning rate (US \$)
(End of 1967)	
1. Local non-operatives	
TOTAL	**
- Managers	**
- Engineers	400
- Technicians	310
- Accountants	50
- Sales officers	50
- Other professional staff	-
- Clerks & typists	145
2. Local operatives	2,110 191
TOTAL	
- Supervisors	10
- Foremen	120
- Machine operators	150
- Craftsmen	280
- Truck drivers	10
- Other full-time operatives	150
- Unskilled & part-time operatives	1,590 176
3. Foreign employees	47 1,119
TOTAL	
- Managerial staff	R 1,600
- Engineers, trainers and other techn. control staff	23 1,440
- Other non-operatives	14 360
	Total consumption value (1000 US \$)
	1,121
3. Other materials & supplies	1,021 154
TOTAL	
- Packagings	12
- Repair & maintenance	730
- Non-factor service inputs	849
4. Business services purchased	2,274
TOTAL	
- Transport, storage & insurance	1,127
- Communication, advertisements, etc.	952
5. Work performed by sub-contractors	-
TOTAL	
	42,921

IX. SUPPLEMENTS

Government policies:

Production quotas, price control and the enforced usage of at least 60% locally produced parts affects the profitability.

Future plan:

The company will invest US \$ 2,960,000 in order to increase the capacity of the assembly plant for

Major Products: Prototype internal combustion engines, electronic measuring units, research and test engines, test benches, design of factory layouts, etc.
Full-capacity output amounts to US \$ 3.9 million based on 1-shift operation.

Reporting Unit: A one-establishment enterprise, privately owned; founded in 1948; 280 employees; largest privately owned research center for internal combustion engines in the world; high growth rate; licensees are granted all over the world; approximately 80% exports.

I. FIXED CAPITAL ASSETS

(End of 1967)

	Original purchase value 1000 US \$	Replace- ment value 1000 US \$	Ave. age (Vn)
1. Primary process equipment (including installation cost)			
TOTAL:	702	938	
- Process equipment *	669	898	8
- Hand tools & apparatuses	33	40	-
2. Buildings	477	928	
TOTAL:			
- Primary industrial buildings (total floor space: 3,675 m ²)	378	563	10
- Auxiliary buildings	15	74	10
- Warehouses	-	-	-
- Offices/administration buildings	33	240	10
- Housing	51	51	1
3. Auxiliary facilities (excl. buildings)	129	..	
TOTAL:			
- Internal power equipment (water supply, sub-station, gas mixing plant)	39	116	10
- Laboratory facilities	13	..	6.5
- Means of transportation	19	21	3
- Office equipment	58	..	11
TOTAL PHYSICAL FIXED ASSETS (excluding land):	1,308	..	
4. Other fixed capital assets	885	1,103	
TOTAL:			
- Land (total acreage: 7,400 m ²)	11	229	-
- Land improvements (t.scr. 4,045 ")			-
- Others (including rights, patents, interests and capital participation)	874	874	-

*NB: Details of process equipment and capacity of primary operative shops are given on Page Three (Section VIII).

EXTERNAL CONDITIONS:

Transport:	external long distance	| excellent
internal long distance	local and city	
Utilities:	electricity	| excellent
water	gas	
Community:	residence	| poor
health and recreation	education	
Own Welfare Facilities:	Apartment houses	

III. INVENTORIES

(End of 1967)

	Actual value 1000 US \$	Number of months
Inventories	882	
TOTAL:		
- Production materials	123	5
- Other input materials	4	2
- Work-in-process	611	12
- Finished products	144	5

WORKING TIME PER OPERATIVE WORKER:

	1st shift	2nd shift	3rd shift	hours
- Shift hours/day	9	-	-	hours
- Actual hours/year	2,040	-	-	hours
- Actual days/year	236	-	-	days

II. MONTHLY GROSS WAGES AND SALARIES

(Number of persons)

(1967 monthly average)

	up to 100 USS	100- 140 USS	140- 160 USS	160- 240 USS	240- 560 USS	over 560 USS
1. Local non-operatives						
- Managers	-	-	-	-	-	3
- Engineers	-	1	1	28	43	2
- Technicians	-	4	3	-	-	-
- Accountants	-	2	1	4	-	-
- Sales officers	-	-	-	2	4	-
- Clerks and typists	3	6	5	5	2	-
- Others: warehouse, control, design, work programming	-	-	-	13	2	-
2. Local operatives						
- Supervisors	-	-	-	-	-	-
- Foremen	-	-	2	2	-	-
- Skilled operatives }	2	18	16	12	-	-
- Machine operators }	2	8	7	-	-	-
- Craftsmen	-	1	-	-	-	-
- Truck drivers	-	-	-	-	-	-
- Unskilled operatives	10	10	2	-	-	-
- Other full-time operatives	-	-	-	-	-	-
- Part-time operatives	-	-	-	-	-	-
- Experimental fitters	-	4	10	11	-	-
3. Foreign employees						
- Managerial staff	-	-	-	-	-	-
- Technical staff	-	1	1	1	1	-
- Other skilled operatives	2	5	2	1	-	-
- Unskilled operatives	-	2	-	-	-	-
- Others	-	1	1	-	-	-

IV. MANNING TABLE

(Number of personnel)

(End of 1967)

	Total	Shift categories:		
		A	B	C
ALL SHOPS & UNITS:	282	144	138	-
1. Primary operative shop	207	84	55	58
Development of engines:				
- Design department	43	43	-	-
- Experimental department	44	18	26	-
- Electronics department	6	6	-	-
- Precision department	5	4	1	-
Production of engines:				
- Mechanical department	63	4	26	28
- Precision department	46	9	2	30
- Electronics department	-	-	5	-
2. Auxiliary operative units	34	19	15	-
- Repair & maintenance	-	-	-	-
- Mechanical shop	-	-	-	-
- Tooling shop	-	-	-	-
- Utilities control	15	15	-	-
- Product & material storage	4	4	-	-
- Off-site transport	1	-	-	-
- Guards, cleaners, etc.	14	-	14	-
3. Auxiliary non-operative units	41	41	-	-
- Production management	3	3	-	-
- Research & development (*)	(98)	(71)	(27)	-
- Sales unit	6	6	-	-
- Accounting	8	8	-	-
- General administration	24	24	-	-

(*) Most important primary operative shop; figures are therefore included under 1.

V. ANNUAL PRODUCTION

(1967)

Products (or group of products)

	Yr. of first prod.	Quantity produced Unit	Avg. unit price on factory (US \$)	Total output value (1000 US \$)
- Design, development and other activities	1946	-	..	715
- Parts of test and research engines	1966	pieces 114	4,931.3	580
- Test benches and equipment	1966	pieces 6		
- License fees	1947	-	..	270
- Motor-vehicle appliances	1946	-	..	250
- Pisco-electric and other precision measuring devices	1965	pieces 800	126.5	1,000
- Electronic measuring devices	1966	pieces 2,680	73.1	192

TOTAL VALUE OF PRODUCTION: 2,107

VI. VALUE ADDED

(1967)

	Total value 1000 US \$
1. Annual wages & salaries	317
- Operative workers (137 persons)	317
- Non-operative workers (192 persons) (*)	368
2. Other payments for employees	150
3. Annual depreciation	116
- Machinery & equipment	84
- Buildings & other facilities	10
- Non-physical capital (depreciation)	22
4. Rents paid	41
5. Interest & royalties	84
6. Sales tax (and other taxes) (**)	21
7. Other indirect business taxes (**)	23
8. (1) Subsidies	2
9. Corporate income before tax	109
(*) Including 48 apprentices.	
(**) Land tax and other duties.	
TOTAL VALUE ADDED	1,119

DESCRIPTION OF MAJOR PRODUCTS:

The development work carried out comprises a great variety of types of two- and four-stroke diesel engines with air- or water-cooling systems, designed in units of different cylinder arrangements, cylinder sizes and cylinder numbers, with or without supercharging, for the use in varied fields, such as in road vehicles, rail traction engines, power plants in industry, trade and agriculture, as well as in ships, both as main and auxiliary engines with an output ranging from 2 h.p. to 8,000 h.p.

The company specialises in the design and construction of internal combustion engines to be produced and operated in countries without a sufficient number of highly skilled workers and where the general technical development has only been quite recent. In engines designed made for such countries particular attention has been paid to the following features: rugged construction, simple production methods, easy maintenance. Moreover, these engines can be adapted to local conditions as concerns the supply of accessories, at the same time

(For continuation please see page 4 (II. Supplements))

MARKET ASPECTS:

Re-sales:

Of minor importance, mainly motor car accessories.

Consumers of products:

Manufacturers of internal combustion motors and motor vehicles, educational institutions of various types, producers of arms and rockets.

Sales organisation:

Own staff of salesmen for domestic and foreign markets; 3 own foreign agencies and representatives in most countries of the world.

50% of products are manufactured to order and 50% on stock.

Share in the domestic market:

Development of engines and production of related measuring devices.

EXPORT:

Total annual export US \$ 1,470,000.

Major products	To Western countries	To Eastern countries	To developing countries
Development of engines	75%	20%	5%
Test engines	75%	20%	5%
Pisco-programme	95%	5%	-
Electronic measuring devices	85%	15%	-

Share in the international market:

Development of engines: 50%; related measuring devices: 5%. No specific marketing policy.

Main exports to:

Western and Central Europe, USA, Italy, Egypt, South Korea.

VII. ANNUAL CONSUMPTION

(1967)

1. Energy and water

TOTAL:

	Quantity consumed Unit	% Import	Avg. import duties	Total consumption value 1000 US \$
- Electricity	000 kWh 53.9	-	-	21
- Coal, coke	t 40	-	-	12
- Fuel oil	t 100	-	-	4
- Gas	000 m ³ 12	-	-	1
- Water	000 m ³ 28	-	-	3

2. Production materials

TOTAL:

	Quantity consumed Unit	% Import	Avg. import duties	Total consumption value 1000 US \$
- Raw material (*)	t 30	-	-	55
- Motor vehicle parts	pieces 22,500	-	-	148
- Other production material	pieces 18,400	1-2	(**)	246
- Standardised elements	pieces 48,000	-	-	19
- Experimental material	pieces 9,200	2	(**)	24

(*) Iron and steel, non-ferrous metals, sheet metal, tubes, etc.

(**) Mainly bond transhipment or customs-exempt.

3. Other materials & supplies

TOTAL:

- Packaging material	-
- Parts, supplies & services	14
- Other materials & supplies	7

4. Business services purchased

TOTAL:

- Transportation, storage & insurance	22
- Communication, advertising & other business services (travel expenses)	114

5. Work performed by subcontractors

TOTAL:

TOTAL VALUE OF CONSUMPTION	672
----------------------------	-----

III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service	Description
1 Engineering studies	Technical and managerial personnel
2 Technical assistance	Management
3 Industrial services	Industrial training
4 Equipment supply	Technical consultancy
5 Installation & customer care	Technical consultancy

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project
1				Supply of overall engineering studies for mechanical engineers' factories as well as all kinds of studies which are concerned with internal combustion engines, mechanical workshops and training plants for mechanical engineers (engineering studies have been prepared for engine and motor vehicle plants in USA, Western and Eastern European countries, and Japan).
2				Provision of know-how agreements for designing and planning of combustion engine factories, training plants for engineers, engine maintenance workshops and for construction of prototype engines and specific electronic devices. License agreements are issued for engines which will be produced in series.
3				Planning and construction of turn-key plants for engine production. Measuring machines and equipment, quartz pressure transducers, quartz accelerometers, remote-controlled mounting adapters, fuel scales, smoke meters, spark-plug adapters, etc. Piezo-electric devices: charge amplifiers, peak meters, carrier amplifiers, digital counters, digital meters, equipment for engine indicating, ballistic measuring, assembling.
4				Provision of industrial engineers, mechanical engineers, managers, planners, foremen, trainers, supervisors, etc. About 50 experts can be provided altogether.
5				Interested and experienced in all kinds of consultancy.
6				Admission and training of a sufficient number of operatives in connection with an industrial project.

III. SUPPLEMENTARY NOTES**III.1. MAJOR PRODUCTS (Description of Major Products - cont'd):**

allowing the use of available production plants and equipment, and finally providing for special requirements caused by the local use of such engines.

The company plans and erects plants for the production of engines with due regard to local conditions.

A further field of activity is the development of fully installed engine testbeds as well as of testing equipment and electronic testing devices.

Equipment manufactured by the company: Measuring machines and equipment, quartz pressure transducers, quartz accelerometers, remote-controlled mounting adapters, fuel scales, smoke meters, spark-plug adapters, etc. Piezo-electric devices: charge amplifiers, peak meters, carrier amplifiers, digital counters, digital meters, equipment for engine indicating, ballistic measuring, assembling.

Single production or small series.

Depreciation policy:

The straight-line as well as the accelerated methods of depreciation are applied.

Major Products: Production of motorcycle and bicycles; 2-shift operation.
Capable of producing annually 100,000 bicycles and 20,000 motor cycles in 1-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1950, private corporation, no participation of foreign capital.

I. FIXED CAPITAL ASSETS

	Year of installa- tion	Orig. pur- chase value 1960 US \$	Replac- ment value 1960 US \$
(End of 1966)			
1 Primary process equipment			
TOTAL		1,380	1,380
- Process equipment		1,272	1,272
- Hand tools & apparatuses		72	72
- Cost of installation		36	36
2 Primary industrial building		1,600	1,600
TOTAL		1,600	1,600
(Total floor space)	sq. m.	36	36
3 Auxiliary facilities		120	90.1
TOTAL		120	90.1
- Water, steam, electricity, cooling & storing		100	80
- Transportation facilities		100	10
- Administrative facilities		20	10
- Laboratory facilities		0	0
TOTAL PHYSICAL FIXED CAPITAL ASSETS (including land)		2,000	1,570
4 Other fixed capital assets		18	18
TOTAL		18	18
Land (total acreage)	sq. m.	18	18

	Year of installa- tion	Orig. pur- chase value 1960 US \$	Replac- ment value 1960 US \$
DETAIL OF PROCESS EQUIPMENT (in \$)			
- Presses, lathes, drawing machines and cutters		40	40
- Nickel plating tanks		50	50
- Equipment for welding, riveting and painting		50	50
- Furnaces		0	0
- Machinery for { spare-parts beam connecting	1960	10	10
- Cutters, sharpeners, brushes		10	10
- Equipment for tempering, motor pump		100	100
- Pneumatic hammers, compressors		100	100
- Other equipment		400	400

(*) Part of process equipment was imported from Czechoslovakia
and by Italy and France mainly.

HISTORY OF INVESTMENT

Construction of the factory started in 1950. The first 1000 units as well as consumer products started in 1951. The factory made its first profit in 1952. The following investments for expansion purposes were made: in 1953 - \$ 1000.

1956 - approx.	800	Production of spare-parts for bicycles
1961 -	100	Production of motor-cycles
1963 -	400	Production of motor-cycles
1965 -	400	Production of motor-cycles

CAPACITY PLANS

Process equipment
Bicycle makes
Motor cycles
Electric furnaces

1000
1000
1000
1000

Generating equipment
located capacity

6VA

INTERNAL CONDITIONS

Transport Long distance, road, rail, air, water.

Utilities Electricity, gas, water, fuel, water, gas.

Community Residential, educational, health and recreational, poor still as desired to raise capital contributions.

II. INVENTORIES AND WORKING CAPITAL

(in 1000 US \$)

(End of 1966)	Appraised value	Liquid assets	Actual value
TOTAL			
1 Inventories	1,343	2 Liquid assets	1,433
TOTAL	1,343	TOTAL	1,433
- Production materials	127	- Cash (hand/bank)	141
- Other input materials	1	- Market, sec. & bonds	0
- Work-in-process	114	Short-term investment	44
- Finished products	1,102	Prepaid expenses	1
		- Accounts receivable	1,191

III. WORKING CAPITAL

(Number of months)

(End of 1966)	Value
TOTAL	
- Production materials	1
- Other input materials	0
- Finished products	1
- Wages & salaries	1
- Other special items	1

IV. WORKING TABLE

(Number of persons)

(1966 average)

Total 1st shift 2nd shift 3rd shift

A 1st shift B 2nd shift C 3rd shift A+B C+A+B

ALL SHOPS & UNITS:

1 Primary operative shops

Assemblies	100	100	100	100
- Sub-assemblies and components	100	100	100	100
- Automatic lathe	0	0	0	0
- Presses	0	0	0	0
- Chromizing	0	0	0	0
- Wheels	0	0	0	0
- Polishing	0	0	0	0
- Engines	40	40	40	40
- Gears	20	20	20	20
- Painting	0	0	0	0
- Foundry	0	0	0	0
- others	0	0	0	0

2 Auxiliary operative units

Repair and maintenance	0	0	0	0
Mechanical shop	0	0	0	0
Utilities control	0	0	0	0
Product & material storage	0	0	0	0
Off-site transport	0	0	0	0
Guards, cleaners, etc.	0	0	0	0

3 Auxiliary non-operative units

Production management	0	0	0	0
Research & development	0	0	0	0
Sales unit	0	0	0	0
General administration	0	0	0	0

WORKING TIME PER OPERATIVE WORKER

Normal hours/year hours Normal days/year days

Actual hours/year hours

CAPACITY OF OPERATIVE SHOPS

IV. ANNUAL PRODUCTION

(1966)

Products for group of products

	Yr of first prod.	Quantity produced	Nominal capacity output	Unit price at factory (US \$)	Total production value (1966 US \$)
		Unit	Output		
- Bicycles (30 different models)	1961	pieces	1,000,000	12.00	12,000,000
- Motor cycles	1963	units	100,000	12.00	1,200,000
- Sets of lights	1961	sets	400,000	50.00	20,000,000
- Spare-parts	1961	pieces	1,000,000	1.00	1,000,000
- Toys	1961	units	100,000	10.00	1,000,000

TOTAL VALUE OF PRODUCTION

V. AVAILABILITY UTILIZATION

The overall rate of utilization is almost 100% due to low demand, lack of demand. Nominal capacity output is based on 100% utilization. Actual output is based on actual utilization.

EXPORTS:

None.

VI. ANNUAL CONSUMPTION

(1966)

1. Energy and water

TOTAL

	Quantity consumed	%	Total consumption value (1966 US \$)
	Unit	Purchase	Imported Tax/Fees
- Electricity	000 Kwh	100%	100,000
- Butane gas	Kg	100%	100
- Natural gas	Kg	100%	100
- Water	m³	100%	100

2. Production materials

TOTAL

	Quantity consumed	%	Total consumption value (1966 US \$)
	Unit	Purchase	Imported Tax/Fees
- Sheets	kg	100%	100
- Pipes and similar	kg	100%	100
- Rods, wire	kg	100%	100
- Steel bars	kg	100%	100
- Tyres and tubes	kg	100%	100
- Plastic articles	kg	100%	100
- Pedals, brakes	kg	100%	100
- Paints	kg	100%	100
- Chrome-coated polished and other parts	kg	100%	100

VI. VALUE ADDED

(1966)

1. Wages & salaries

- Employees in direct contact with customers (100% of persons)
- Other employees (100% of persons)
- Total (100% of persons)
- 2. Other payments for employees
- 3. Annual depreciation
- 4. Rentals paid
- 5. Interest & royalties
- 6. Sales tax
- 7. Other ind. bus taxes
- 8. (1) Subsidies
- 9. Corporate income before tax

Value (1966 US \$)

VII. MONTHLY EARNING RATES

End of 1966

1. Local non-operatives
TOTAL

Managers
Engineers
Technicians
Accountants
Sales officers
Other professional staff
Workers & typists

2. Local operatives
TOTAL

Supervisors
Foremen
Machine operators
Craftsmen
Mech. drivers
Other full-time operatives
Inskilled & part-time operatives

3. Foreign employees
TOTAL

Supervisors
Foremen
Machine operators
Craftsmen
Mech. drivers
Other full-time operatives
Inskilled & part-time operatives

No. of
persons
employed

Rate

(US \$)

Total
consumption
value
1966 US \$

3. Other materials & supplies
TOTAL4. Business services purchased
TOTAL

Transport, storage & handling
complaints, advertising, etc.

5. Work performed by sub-contractors
TOTAL**VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY**

(1966)

Industry group Manufacture of motorcycles and bicycles (US \$ 20,000)

1. No. groups by number of persons

	Up to 20	21 to 50	51 to 100	101 to 200	201 to 500	501 to 1,000	over 1,000
over	26	1	433	1,113	1,100	1,100	1,100

TOTAL 433 1,143 1,100 1,100 1,100

2. No. groups by no. of annual production units (US \$ 20,000)

	Up to 20	21 to 40	41 to 100	101 to 200	201 to 500	501 to 1,000	over 1,000
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TOTAL 2,347 10,598 1,000 1,000 100

* Equal to datum of planned capital costs.

IX. SUPPLEMENTS

1. Employment protection

2. Capital costs

Major Products: Bicycles.

Capable of producing annually about 6,300 bicycles based on 1-shift operation. Full-capacity output amounts to US \$ 280,000.

Reporting Unit: A one-establishment enterprise; privately owned; founded in 1927; 25 employees; 15% exports.

I. FIXED CAPITAL ASSETS

	Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)
1. Primary process equipment (including installation costs)		
TOTAL	31	31
Process equipment	29	29
Process piping, structural, etc.	2	2
2. Buildings		
TOTAL	39	49
Production buildings	39	49
Storage tanks and vessels	1,098	1,098
Other production	1,401	1,401
Auxiliary buildings	39	39
Administrative	0	0
Residence	0	0
3. Auxiliary facilities (exc. buildings)		
TOTAL	14	19
External power supply	14	19
Laboratory	0	0
Means of transportation	14	19
Office equipment	0	0
TOTAL PHYSICAL FIXED ASSETS (excluding land)		145
4. Other fixed capital assets		
TOTAL	22	22
Plant, total, changes and improvements, plant	48	48
Others	0	0

II. MONTHLY & AGGREGATE WAGES AND SALARIES

Number of persons

(1967 monthly average)						
	up to 100	100 -140	140 -160	160 -240	240 -560	over 560
	US\$	US\$	US\$	US\$	US\$	US\$
1. Local non-operatives						
- Managers	-	-	-	-	-	-
- Engineers	-	-	-	-	-	-
- Technicians	-	-	-	-	-	-
- Accountants	-	-	-	1	-	-
- Sales officers	-	-	-	-	-	-
- Clerks and typists	1	1	-	-	-	-
- Foremen (*)	-	-	-	-	1	-
2. Local operatives						
- Supervisors	-	-	-	-	-	-
- Foremen (*)	-	-	-	-	-	-
- Skilled operatives	-	-	-	-	-	-
- Machine operators	-	-	-	8	-	-
- Craftsmen	-	-	-	2	-	-
- Truck drivers	1	-	-	-	-	-
- Unskilled operatives	7	1	-	-	-	-
- Other full-time operatives	-	-	-	-	-	-

3. Factors affecting

- Managerial staff
 - Technical staff
 - Other skilled operatives
 - Unskilled operatives

not applicable

(ii) Enterprises considers foremen as non-operatives.

• 38 • 100

EXTERNAL CONDITIONS		
Transport	convenient distances interacting distances good roads	fair adequate excellent
Utilities	electricity water gas	excellent
Community	residential commercial recreational educational	fair adequate
Open Welfare Facilities		

• 1990 •

1967

Inventory	100%
 FIFO	
Production materials	
Other input materials	
Work in process	
Finished products	

OVERHEAD TIME PER OPERATING WORKER		
	100 per cent	100 per cent
Actual working day	4	4
Actual hours per year	1,710	1,710
Actual days per year	260	260

11-5

500 500

Well-chosen

- Superior staff and function for all staff
- Well-chosen
- Some well-chosen - regular operators
- Well-chosen operators

V. ANNUAL PRODUCTION

(1967)

Products or group of products

Juvenile models

Dismountable models

Sports and racing models

Yr. of first prod.

Unit

Quantity produced

Unit

Quantity

Av. unit price ex factory (US \$)

Total output value (1000 US \$)

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)

	Number	Original Purchase Value 1960 US \$	Present Value 1960 US \$	Avg. Age Year	Remarks	Further details
Bathes	6	3	5	9		The company utilises standard-type machinery and equipment which had partly been purchased second-hand.
Column-type drilling machines	5	3	4	11		No further details available.
Emulator presses	3	7	10	25		
Protective gas automatic welding machine	1	2	2	2		
Spot welders	2	1	2	4		
Pipe-bending machine	1	1	1	20		
Sandblast machines	2	..	3	..		
Thermalling furnaces	1	..	1	..		
Others	..	..	1	..		

CAPACITY POWER

Process equipment

electric motors 32 kW

Generating equipment
installed capacity - kVA

CAPACITY OF PRIMARY OPERATIVE SHOPS

Major primary operative shops	Kind of process involved	Indication:	Indication:	Indication:
Production of frames		C modern standard	D apparently short of fully modern	E almost modern
Painting		A fully modern	B moderately modern	C almost modern
Assembly		D apparently short of fully modern	E almost modern	F almost modern

CAPACITY UTILIZATION

Full capacity output 11,250,000

Current utilization Based on 1-shift operation.

Major products to produce

All types of bicycles

The company's management was not able to adjust to modern standards of production. Due to alienated quality thinking the enterprise became less and less competitive which ultimately resulted in a loss in the reporting year. Most of the process equipment utilized falls short of modern standards. Presently the utilization of the existing capacity is very much limited by organizational problems.

IX. INVESTMENT PLAN

	Total output 1960 US \$	No. of plants	Total output 1960 US \$
1 Performance in the past	210	21	10
Year 1963	220	20	20
1964	210	26	3
1965	220	21	3
1966	230	24	5
1967	240	26	4
1968	250	26	4

2 Investments in the past

Approvals 1960 US \$	Type of investment
From 1963 to 1968 190	Machinery and equipment

3 Future Plan

From 1970 to 1975	Total output 1960 US \$	Modernization of primary process equipment and of buildings.
770		

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1968) Industry: Bicycle and motorcycle manufacturing IBC Code: 19

1 Size groups by number of process equipment	Up to 10	11-20	21-50	51-100	101-200	201-500	501-1,000	1,001-2,000	2,001-5,000	5,001-10,000	10,001-20,000	20,001-50,000	50,001-100,000	100,001-200,000	200,001-500,000	500,001-1,000,000	1,000,001-2,000,000	2,000,001-5,000,000	5,000,001-10,000,000	10,000,001-20,000,000	20,000,001-50,000,000	50,000,001-100,000,000	100,000,001-200,000,000	200,000,001-500,000,000	500,000,001-1,000,000,000
Up to 10	10	24	50	1,710	7,050	40	10	24	50	1,710	7,050	40	10	24	50	1,710	7,050	40	10	24	50	1,710	7,050	40	
21-50	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
51-100	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
101-200	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
201-500	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
501-1,000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1,001-2,000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2,001-5,000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
5,001-10,000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
10,001-20,000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
20,001-50,000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
50,001-100,000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
100,001-200,000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
200,001-500,000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
500,001-1,000,000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
TOTALS	17	1,292	1,611	1,192	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Confidential: figures of these size group are included in those underlined.

V ANNUAL PRODUCTION

(1968)

A. SALES OF ESTABLISHMENT:

Products (or group of products)

- Motor protectors
- Starting relays
- Thermostats
- Circuit breakers
- Combination units
- Others

B. NET ADDITION TO INVENTORIES:

- All product categories

(*) Unit prices are not specified where product group's heterogeneity would render this figure meaningless.

TOTAL VALUE OF PRODUCTION

DESCRIPTION OF MAJOR PRODUCTS:

The final output of this establishment consists of intermediate products which are used for the manufacture of consumer electrical appliances, in particular the so-called "white market". From both the quality and price standpoints, there is little doubt the "obsolescence factor" encountered by most of the firm's products, which requires active efforts on market and product development research, which result in a "product-life" of about 3 years on the average.

N.B.: The firm has initiated the production of integrated circuits for the computer and electronic industries. In January of 1969,

MARKET ASPECTS:

Re-sales:

The firm engages in re-sales activities in a residual sense in order to supplement its own lagging capacity in particularly fast-growing product markets. These re-sales are generally imports manufactured by "sister"-firms abroad and normally involve products for which an internal productive capacity, either exists or is being established. In 1968, re-sales (of general control devices) totalled US \$ 89,000. These have been netted out of this study.

Consumers of products:

Both domestic and foreign firms engage in the manufacture of household electrical appliances.

Sales organization:

Internal sales unit of 10 persons, also a national-international marketing office with a 6-man staff, located in the major industrial city in the country.

VI. VALUE ADDED

(1968)

Total value

1000 US \$

1. Annual wages & salaries

- Other wage & salary personnel
- Non-exempt wage & salary personnel
- Other personnel

2. Other payments for employees

- Miscellaneous equipment
- Fringe benefits
- Non-physical capital assets

3. Annual depreciation

- Machinery & equipment
- Fringe benefits
- Non-physical capital assets

4. Rentals paid

5. Interest & royalties

6. Sales tax

7. Other indirect business taxes

8. Commissions & expense

9. Corporate income before tax

10. Corporate income tax

11. Total value added

12. Total value added minus taxes

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VII. ANNUAL CONSUMPTION

(1968)

1. Energy and water

TOTAL

- Electricity of which 000 kWh

- lights

- industrial power

- Combustible oil

- Gas

- Water

2. Production materials (direct)

TOTAL

- Copper wire

- Silver

- Constantan (nickel-copper

alloy)

- Brass

- Soft iron

- Electric cable

- Phenolic powder

- Nickel-crome

- Te-plate (brass-silver alloy)

- Triflex

- Tinplate

- Other specified prod. not

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III. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

Type of service	1	2	3
1 Engineering study	✓	Technical and management personnel	✓ Report and expert services
2 Financial assistance		✓ Personnel	✓ Design data
3 Industrial services	✓	✓ Industrial training	✓ Administration of foreign labour
4 Export and supply	✓	✓ Technical consultancy	
Industries & manufacture			

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of service	Country or region	No. of projects	Field of industry	Description of project

Due to its size the enterprise is not able to render any industrial services for co-operation with developing countries.

III. SUPPLEMENTARIES

PROBLEMS IN THE past and present production

Difficulties to receive imported bipolar-parts in time.

Lack of space in the assembly department.

Reorganisation of working methods and construction of new buildings.

DEPRECIATION METHODS

The enterprise applies the straight-line method.

INVENTORY PLANS

Although the company exclusively produces on stock, the value of finished products amounts only to 7% of the total production value.

Major Products:

Plastic table sets. Capable of producing annually 50,000 sets based on 2-shift operation.

Reporting Unit:

One-establishment enterprise, founded in 1965, by private owner, w/o foreign capital participation.

I. FIXED CAPITAL ASSETS

(End of 1967)

1. Primary process equipment

TOTAL

- Process equipment
- Hand tools & apparatuses
- Cost of installation of fixed in-process equipment

2. Primary industrial building

TOTAL

(rented)

3. Total floor space

(sq. m.)

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IV. ANNUAL PRODUCTION

(1967)

Products for group of products

Plastic table sets

Yr. of first prod.	Unit	Output	(*)	Unit price at factory (US \$)	Total production value (1000 US \$)
			Nominal capacity output		
1965	36 pc./set	28,000	50,000	7.20	202

TOTAL VALUE OF PRODUCTION**COMPETITIVE IMPORTS:**

On imported plastic table sets a protective tariff rate of US \$ 1.50 per gross kg and 10% ad valorem is levied.

EXPORTS:

Part of production is exported at US \$ 7.20/set.

CAPACITY UTILIZATION:

Only 50% of capacity could be utilized due to lack of raw materials and insufficient technology used in the production process. For full utilization of the existing capacity 40 additional man-hours would be annually required on the 1st and 2nd shifts each.

(*) Nominal capacity and actual output are based on a two-shift operation.

V. ANNUAL CONSUMPTION

(1967)

1. Energy and water

TOTAL:

Quantity consumed				Total consumption value (1000 US \$)
	Unit	Purchase	% imported	Tariff rate
- Electricity	000 Kwh	207.50		5
- Liquid fuels and lubricants		..		
- Water		..		1

2. Production materials

TOTAL:

		per ad-	gross valo-		Total consumption value (1000 US \$)
		gross kg + rem	kg	US \$	
- Melamine	t	95	100	0.15 15	74
- Foils	t	360	100	0.20 15	34

VI. VALUE ADDED

(1967)

	Value 1000 US \$
1. Wages & salaries	
- Employees in direct production	11
(21 persons)	
- Other employees	12
(8 persons)	
2. Other payments for employees	6
3. Annual depreciation	4
4. Rentals paid	1
5. Interest & royalties	0
6. Sales tax	0
7. Other ind. bus. taxes	0
8. (-) Subsidies	0
9. Corporate income before tax	0

VII. MONTHLY EARNING RATES

(End of 1967)

	No. of per. empl.	Average earning rate US \$
1. Local non-operatives		
TOTAL:	6	333
- Managers	1	1,200
- Engineers	-	-
- Technicians	1	300
- Accountants	-	-
- Sales officers	-	-
- Other professional staff	4	300
- Clerks & typists	-	-

2. Local operatives

	No. of per. empl.	Average earning rate US \$
TOTAL:	23	314
- Supervisors	-	-
- Foremen	-	-
- Machine operators	-	-
- Craftsmen	-	-
- Truck drivers	-	-
- Other full-time operatives	-	-
- Unskilled & part-time operatives	-	-

3. Foreign employees

	Total consumption value 1000 US \$
TOTAL:	-

3. Other materials & supplies

	Total consumption value 1000 US \$
TOTAL:	10

4. Business services purchased

	Total consumption value 1000 US \$
- Transport, storage & insurance	1
- Communication, advertisements, etc.	17

5. Work performed by sub-contractors

	Total consumption value 1000 US \$
TOTAL:	-

VIII. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1967)

Industry group:

		Av. prod. val.	Av. exp. gross prod. ratio (%)	(ISIC.)
1. One group by number of persons employed	Number of empl.	Number of empl.	per pers. (US \$)	per pers. (US \$)

No data available.

2. One group by scale of annual production		
US \$		

up to

TOTAL

No data available.

IX. SUPPLEMENTS

FUTURE PLANS

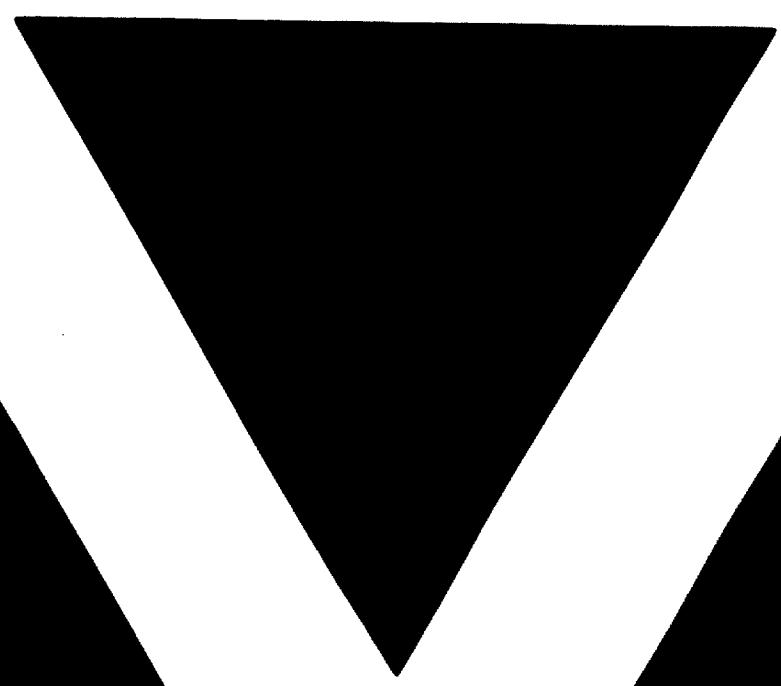
By 1972 approximately US \$ 75,000 will have been invested in order to increase the employment on the 1st shift by 7 persons, and on the 2nd and 3rd shifts by 6 persons each.

* Capital is defined as physical capital assets.

Printed in Austria
70-6858—October 1971—4,600

Price: \$ U.S. 9.00
(or equivalent in other currencies)

United Nations publication
Sales No.: E. 71.II.B.12
ID/SER.E/6



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VII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (1)	Number	(*) Unit value (Book value) (US \$)	Replace- ment value (US \$)	Ave Age yrs	Remarks: Purchased second-hand Obsolete Rented Self-constructed	Further details:
Welding machines		900				
Magnetic hammers		-				
Burnishing machines		-				
Electric screwing machines		222				
Component mounting machines		-				
Marking machines		-				
Treatment ovens		4,937				
Riveting machines, type I		-				
Presses		15,254				
Rating or measuring machines		-				
Winding machines		644				
Riveting machines, type II		418				
Control apparatus		6,484				
Seam folding machine		493				
Dressing machine		222				
Degreaser		1,073				
Automatic insulation stripper		330				
Tapping machine		-				
Milling machine		3,327				
Sensitive drills (semi-automatic)		274				
Lathe		1,959				
Grinding machine		-				
Lapping machine		-				
Compressed air plant		-				
Computer	(rented)			5		
(*) These unit values refer to average book values of that type of equipment. Where the equipment group is considered too heterogeneous no unit value is given.						

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Major primary operative shops	Kind of process involved	Mechanization: A) most advanced B) considerably high standard C) moderate standard D) apparently short of today's standard E) almost unaided	Method:	Automation: I) fully automated II) semi-automated III) non-automated	Further details:
A. Primary parts					
- Bakelite moulding	Transformation by heat-process of bakelite powder into "plugs"	C	III		
- Bakelite stamping	Transformation by heat-pressing process of "plug" into component parts	B	II		
- Sub-assembly	Preparation by assembly of component elements	B	II		
- Discs	Production of bi-metallic "discs" as temperature control elements	B	II		
B. Finished products					
- Thermostats	Mechanical assembly process of final products. Considerable internal variation of relative mechanization-automation as a result of use of several different processes in producing a given end-product	A-C	II, III		
- Motor protector					
- Combination units					
- Starto relay					
- Integrated circuits					
All products (because the product-process mix is very flexible)	x x				

CAPACITY UTILIZATION:

Full capacity output: about US \$ 8,000,000.

Current utilization:

Major products for processing

Approximate %

50 40 30 20 70 80 90 100

IX. HISTORY & PLAN

1. Performance in the past:	Total output (US \$)	No. of persons employed	(*) Total exports (US \$)
	Year		
1963	3,215	549	-
1964	3,054	364	150
1965	3,795	336	1,110
1966	5,636	453	1,200
1967	6,212	603	2,200
1968	7,942	847	3,000

(*) very approximate.

2. Investments in the past:	Approximate amount (US \$)	Type of investment
	From 1958 to 1959	
" 1958 " 1965	400	Legal establishment, technical studies, equipment, labour training
" 1965 " in 1965	1,500	Replace and upgrade equipment, etc.
" 1965 " to 1968	500	New plant and equipment
		Replace and upgrade equipment.

3. Future Plan:

From 1968 to 1969	Approximate amount (US \$)	Type of investment
1,000		General plant expansion to cover increased production as well as to allow for expansion of product types.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

(1965) Manufacture of electrical and telecommunications equipment and apparatus		(ISIC-Code: 370)		AVERAGE PER EMPLOYEE								
Industry	Size groups by number of employees	Average no. of employees	Value added (US \$)	Labour costs (US \$)	Fixed investment (US \$)	Value added ratio (%)	Labour costs ratio (%)	Fixed investment ratio (%)	Value added output value ratio (%)			
	up to 10	14,5	246	195	22,4	6,27	9,08	3,140	2,430	285	70,08	39,24
	10 - 49	244	246	245	627	35,4	1,360	12,79	3,136	388	34,07	38,14
	49 - 99	648	2,320	1,926	442	1,250	18,54	3,480	2,390	643	39,38	32,77
	99 - 1,999	2,210	3,720	3,080	777	20,70	8,83	3,920	3,160	347	50,67	42,51
	1,999 - 5,000	6,120	26,400	14,920	2,250	61,800	8,90	31,30	2,250	352	74,68	40,77
TOTAL (average):	665	2,600	1,950	263	6,100	10,76	3,160	2,130	304	50,22	39,81	

(*) Fixed investment data refer to investment during year of study.

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

Type of services	Country or region	No. of projects	Field of industry	Description of projects
------------------	-------------------	-----------------	-------------------	-------------------------

- | | | | |
|---|-------------------------|--|--------------------------------|
| Type of services | | | |
| 1. Engineering studies | 2. Technical assistance | 3. Production and management personnel | 4. Computer processing systems |
| 2. Industrial services | 3. Industrial training | 5. Technical consulting | 5. Technical assistance |
| 4. Equipment supply, installation & maintenance | | | |

It should be noted that this establishment is part of a vast international complex of firms producing related products in a number of countries in the world.

Were a given developing country interested in the possibility of establishing a plant in this given field, they might consider contacting this firm on a thorough-going commercial basis, for:

1, 2, 3, 4, 7 and 8.

XII. SUPPLEMENTS & NOTES

Cost-Revenue Relationships:

Inventories of finished products were increased from US \$ 733,000 at the beginning of 1961 to US \$ 1,522,000 at year's end to provide a cushion against an expected increase in demand during 1962 during which time additional capacity would be under construction but not yet operative.

Depreciation policies:

Government policies to this effect have a major effect in determining the final capital-labour ratio, particularly in the face of the limited product life as a result of design changes, obsolescence, etc.

Presently the firm uses the accelerated write-off on all durable and non-durable equipment of: year 1 and 2 = 30%; year 3 = 21%; year 4 = 15%.

Selected coefficients:

1. Ratio of operative workers to total work force:	69%
2. Machinery per worker (*):	US \$ 1,270
3. Value added per employee:	US \$ 5,140
4. Mean daily absentee ratio:	~ 9%
5. Ratio of gross profits to gross production:	19.4
6. Average hourly wage (**):	US \$ 0.34
7. Average annual labour costs (to firm) per employee:	US \$ 2,680
8. Average annual payment per employee:	US \$ 1,760
9. Ratio of labour costs to value added:	57%
10. Ratio of value added to value total production:	57%
11. Ratio of fixed investment to value added:	56%

(*) Book value of machinery, equipment, tools, etc. per each employee in direct production on the "daytime" shift (first and second).

(**) Estimate.

Major Products: Assembly of buses, mini-buses and passenger cars.
Assembly capacity about 25,000 units of mini-buses and passenger cars per annum; one-shift operation.

Reporting Unit: A one-establishment enterprise, founded in 1963; production unit. No foreign capital participation. The construction as well as trial production of the factory started in 1963, commercial production in 1964. The plant was originally built for the assembly of buses 240 units/yr. only. But the operation has become profitable only recently with the present increased capacity. (Break-even output around US \$ 5 million.) No possibility of merging with other companies; possibility of further specialization. Exports amounted to approximately US \$ 1 million.

I. FIXED CAPITAL ASSETS				II. MONTHLY GROSS WAGES AND SALARIES (Number of persons)						
(End of 1968)		Original purchase value (1000 US \$)	Replace- ment value (1000 US \$)	Avg. age (Yrs.)	(1968 monthly average)					
1. Primary process equipment (including installation cost)	TOTAL	14,061	..	..	US\$	US\$	US\$	US\$	US\$	US\$
- Process equipment *	- Process equipment *	13,190	..	..				
- Hand tools & apparatuses	881	..	..	..			
2. Buildings	TOTAL	4,681	..	..				
- Primary industrial buildings (total floor space: 68,037 m ²)										
- Auxiliary buildings (23,150 ")	4,681	..	..	..			
- Warehouses (14,154 ")										
- Office administration buildings (20m ²)										
- Housing (16,168 m ²)										
3. Auxiliary facilities (excl. buildings)	TOTAL	842	..	..				
- Internal power equipment	-	-	-	-						
- Laboratory facilities	-	-	-	-						
- Means of transportation	545	..	..	..			
- Office equipment	297	..	..	..			
TOTAL PHYSICAL FIXED ASSETS (excluding land)		19,584	..	..				
4. Other fixed capital assets	TOTAL	3,692	..	..				
- Land (total acreage: 2,100,000 m ²)	3,692	..	..	..			
- Land improvements	-	-	-	-						
- Others	-	-	-	-						

*NB: Details of process equipment and capacity of primary operative shops are given on Page three (Section VIII).

III. INVENTORIES				IV. MANNING TABLE (Number of persons)						
				(1968 average)						
EXTERNAL CONDITIONS:				Total	A	B	C	D	2nd Shift	3rd Shift
Transport	external long distance	excellent								
	internal long distance	excellent								
	local and city	fair								
Utilities	electricity	fair								
	water	excellent								
	gas	-								
Community	residence	excellent								
	health and recreation	excellent								
	education	excellent								
Own Welfare Facilities	-	-								
V. WORKING TIME PER OPERATIVE WORKER:				All Shops	2,123	67	116	1,340	-	-
	1st shift	8	-							
	2nd shift	-	-							
	3rd shift	-	-							
Shift hours/day	R	-	-	hours						
Average hours/yr.:	2,144	-	-	hours						
Normal days/year:	268	-	-	days						
(End of 1968)				Inventories	5,897	Number of months				
				TOTAL	5,897					
				- Production materials	-					
				- Other input materials	-					
				- Work-in-process	5,897					
				- Finished products	-					
(See XII. Supplements: liquid assets and desire working capital)										
VI. SKILL CATEGORIES:				Skill categories: A. Supervisory staff and foremen (for all shifts) B. Machine operators C. Other operatives D. Unskilled operatives						
				Total	A	B	C	D	2nd Shift	3rd Shift
ALL SHOPS & UNITS:				2,712	464	3,248	-	-	-	-
1. Primary operative shops				2,123	67	116	1,340	-	-	-
All shops				2,123	67	116	1,340	-	-	-
(Primary building and assembly)										
2. Auxiliary operative units				192	-		192	-	-	-
				- Repair & maintenance	20	-		20	-	-
				- Mechanical shop	-	-	-	-	-	-
				- Tooling shop	-	-	-	-	-	-
				- Utilities control	25	-		25	-	-
				- Product & material storage	30	-		30	-	-
				- Off-site transport	-	-	-	-	-	-
				- Guards, cleaners, etc.	-	-	-	-	-	-
				- Laundry	117	-		117	-	-
3. Auxiliary non-operative units				397	397	-	-	-	-	-
				- Production management	4	4	-	-	-	-
				- Research & development	35	35	-	-	-	-
				- Sales unit	124	124	-	-	-	-
				- Accounting	24	24	-	-	-	-
				- General administration	210	210	-	-	-	-

V. ANNUAL PRODUCTION

(1968)

Products for group of products

	Yr. of firs. prod.	Quantity produced Unit	Quantity	Avg. unit price ex factory (US \$)	Total output value (1000 US \$)
Buses	1964	units	1,262	14,520	18,334
Mini-buses	1965	units	1,412	4,746	6,363
Passenger cars	1967	units	12,753	1,952	24,906
Others					7,882
					TOTAL VALUE OF PRODUCTION: 56,103

DESCRIPTION OF MAJOR PRODUCTS:

Major parts are from G.B. and Fed.Rep.of Germany. Batteries and tyres only are manufactured in the country.

MARKET ASPECTS:

Consumers of products:

Private persons and firms as well as government organizations.

Sales organization:

The company has a central sales department in the Capital and sales agencies in all provinces.

Share in the domestic market:

The company holds a share of about 40%.

Export price policy:

Efforts will be made to sell at the lowest possible price.

Competition with imported products:

At present no competition, since the import of cars and buses is restricted.

VI. VALUE ADDED

(1968)

- 1 Annual wages & salaries
 - Operative workers
 - 1. Drivers (111 persons)
 - 2. Non-operative workers
 - 1. 392 persons
- 2 Other payments for employees
- 3 Annual depreciation
 - Machinery & equipment
 - Buildings & other facilities
 - Non-physical capital assets
- 4 Rentals paid
- 5 Interest & royalties
- 6 Sales tax *
- 7 Other indirect business taxes
- 8 () Subsidies
- 9 Corporate income before tax

*not incl. in total

TOTAL VALUE ADDED

Total
value
(1000 US \$)

18,334

6,363

24,906

7,882

56,103

18,334

VIII. TECHNOLOGICAL CHARACTERISTICS

DETAIL OF PROCESS EQUIPMENT (0.1.)

Number

Original
Purchase
Value
(1960 US \$)Replace-
ment
value
(1960 US \$)Av.
Age
(yr.)

Remarks:
 SH Purchased second-hand
 OH Obsolete
 R Rented
 SC Self-constructed

Further details:

All equipment supplied by Fed.Rep. of Germany

and Great Britain.

CAPACITY POWER:

Process equipment:

electric motors kW 3,600

- other prime movers ..

Generating equipment:

installed capacity kVA 1,610

Annual production in 1968: 1,450 kWh

CAPACITY OF PRIMARY OPERATIVE SHOPS:

Mechanization:
 A most advanced
 B considerably high standard
 C moderate standard
 D appreciably short of today's standard
 E almost outdated

Automation:
 I. fully automated
 II. semi-automated
 III. non-automated

Major primary operative shops

Kind of process involved

Mechan.

Autom.

Further details:

Body building shop

B II

Assembling shop

B II

CAPACITY UTILIZATION:

Full-capacity output: US \$ 95,100,000

Current utilization:

Major products for processing	Approximate %									
	10	20	30	40	50	60	70	80	90	100

The actual over-all capacity utilization rate is considered to be about 60%. The under-utilization is due to the insufficient supply of parts as well as labour. However, these bottlenecks will be soon cleared. For full-capacity utilization another 1,000 operatives would be required.

A total investment expenditure of approximately US \$ 66,000 would be needed to make all production facilities technologically well balanced.

IX. HISTORY & PLAN

1. Performance in the past:

Year: 1963
 1964
 1965
 1966
 1967
 1968

Total output (1960 US \$)	No. of persons employed	Total exports (1960 US \$)
-	-	-
2,230	790	-
27,330	1,400	-
38,850	2,500	-
56,980	2,712	960

2. Investments in the past:

Up to 1966:	Approximate expenditure (1960 US \$)	Type of investment
5,280	Machinery and building	

3. Future Plan:

From 1969 to 1973: 71,280 General expansion purposes.
 Another 1,000 operatives will be employed then.

X. CHARACTERISTICS OF THE INDUSTRY IN THE COUNTRY

* Data of selected 14 establishments representing only part of ISIC 383.

(1967)

Industry Manufacture of motor vehicles (ISIC-Code: 383 *)

1. Size groups by number of persons employed: up to 100	No. of estab.	No. of emp.	Ave. W. & L. per pers. (US \$)	Ave. gross prod. val/ per pers. (US \$)	Ave. value added/gross prod. ratio (%)	Capital assets per pers. (US \$)
101 - 300	3	589	1,812	17,035	15.4	10,116
over 300	6	4,501	1,167	19,182	17.6	4,731
TOTAL:	14	5,257	1,229	18,978	18.3	5,488

XI. DESIRED AREAS FOR CO-OPERATION WITH DEVELOPING COUNTRIES

- Type of service:
- 1. Engineering study
 - 2. Financial assistance
 - 3. Industrial services
 - 4. Equipment supply
 - 5. Intermediate & maintenance
 - 6. Technical and managerial personnel
 - 7. Industrial training
 - 8. Technical consultancy
 - 9. Import and export trade fair
 - 10. Administration of foreign liaison

INDUSTRIAL SERVICES FOR CO-OPERATION WITH DEVELOPING COUNTRIES:

1. Services performed during the past five years:

Type of service	Country or region	No. of projects	Field of industry	Description of projects

XII. SUPPLEMENTS & NOTES

Depreciation policy:

The following depreciation rates were applied:	Buildings	10%
	Machinery except testing machine	20%
	Testing machine	10%
	Office equipment	20%.

Labour training:

On-the-job training is currently in operation; own training department; foremen and engineers are sent abroad for training.

Liquid assets(average):	(000 US \$)
Cash on hand and in bank	1,120
Marketable securities and bonds	31,345
Accounts receivable from delivery of goods and services	5,200
Other accounts receivable	1,750
Prepaid expenses	1,650
Total average liquid assets	41,070

Desired working capital:	(000 US \$)	Equivalent no. of months
Production materials		
Other materials and supplies		
Finished products		
Wages for primary operative workers		
Other wages and salaries		
Training costs		
Administrative costs, sales costs and contingencies		
Other special items		
Total desired working capital	15,543	1

MEXICO : 383 - (1)

1300

Major Products: Automobiles and trucks (light and heavy duty).
 Capable of producing annually 30,000 units on 2-shift operation.
Reporting Unit: A one-establishment enterprise, founded in 1925, private corporation, 100% foreign capital.

I. FIXED CAPITAL ASSETS			
(End of 1967)			
1. Primary process equipment		Year of installation	Orig. purchase value (000 US \$) Replacement value (000 US \$)
TOTAL			5,334 9,164
- Process equipment			4,859 9,147
- Hand tools & apparatuses			475 617
- Cost of installation			included above included above
2. Primary industrial building	1966/67		5,067 10,880
TOTAL			5,067 10,880
(total floor space: 112,692 m ²)			
3. Auxiliary facilities			3,271 ..
TOTAL			1,001 1,219
- Water, steam, electricity, cooling & storing			1,012 1,268
- Transportation facilities			898 988
- Administrative facilities			.. ..
- Laboratory facilities			358 ..
- Others			
TOTAL PHYSICAL FIXED CAPITAL ASSETS (excluding land)			13,672 ..
4. Other fixed capital assets			5,403 ..
TOTAL			5,403 ..
- Land (total acreage: 11,246,133 m ²)			
DETAIL OF PROCESS EQUIPMENT (in \$)	Supplier country	Year of installation	Orig. purchase value (000 US \$) Replacement value (000 US \$)
Furnaces (foundry)	FR.Germ. USA	1963/64	682 818
Motor producing machinery	..	1963/64	1,994 2,395
Assembly line	USA	1959	659 4,030
Tooling shop	USA	1963	1,524 1,904
Equipment, machinery, patents and "know-how" have to be imported.			

HISTORY OF INVESTMENT:

The plant was built in 1932 to assemble trucks and cars. Trial as well as commercial production started in the same year. A motor plant and foundry were added in 1963, a tooling shop in 1964. The following investments were made for the expansion of the assembly plant: (in 000 US \$)

1954	approx.	1,040	whole plant
1962	"	830	Painting, upholstery, chassis, garages
1965	"	890	and warehouse departments.

CAPACITY POWER: Process equipment: Electric motors: - " furnaces	Generating equipment: Installed capacity: - kVA
9,091 kW	"

EXTERNAL CONDITIONS:
 Transport: Long distances and local area, excellent.

Utilities: Electricity, water, excellent.

Community: Residential, health and recreational, excellent.

II. INVENTORIES AND WORKING CAPITAL

(in 000 US \$)

(End of 1967)

1. Inventories	Actual value	2. Liquid assets	Actual value
TOTAL	20,172	TOTAL	3,267
- Production materials	514	- Cash (hand/bank)	-
- Other input materials	1,031	- Market. sec. & bonds	-
- Work-in-process	1,527	- Short-term investment	4
- Finished products	9,040	- Prepaid expenses	716
		- Accounts receivable	2,487

3. Desired working capital
 Number of months Value

III. MANNING TABLE

(1967 average)	(number of persons)		
	Total	1st shift A	2nd shift B
ALL SHOPS & UNITS:	3,455	3,301	469
1. Primary operative shops	1,219	797	101
- Foundry	144	125	19
- Machining and assembly of motors	110	84	26
- Assembly of automobiles	702	394	40
- Tool shop	323	194	16
2. Auxiliary operative units	1,456	1,283	137
- Repair and maintenance	309	251	46
- Mechanical shop	109	89	16
- Utilities control	273	245	28
- Product & material storage	535	535	-
- Off-site transport	-	-	-
- Guards, cleaners, etc.	55	21	21
- Others (craftsmen, quality controllers)	175	142	26
3. Auxiliary non-operative units	1,120	1,120	-
- Production management	8	8	-
- Research & development	146	146	-
- Sales unit	111	111	-
- General administration	262	262	-
- Others	593	593	-

WORKING TIME PER OPERATIVE WORKER:

Normal hours/day	7.47	hours	Normal days/year	240	days
Actual hours/year	1,870	hours			

CAPACITY OF OPERATIVE SHOPS:

Operative shops	Processing capacity	Utilisation rate	Automation and mechanisation
Assembly of bodies	106 units/day	138%	Moderate
Motors (machining)	120/shift	100%	"
Foundry	100 sets/shift	100%	"