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United Nations Industrial Development Organization

Working Party on Industry Profiles Beirut, Lebanon, 4 - 7 May 1970

AMALYTIC INDUSTRY PROFILES

A PROGRESS REPORT ON A NEW UNIDO

prepared by

the secretariat of UNIDO

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Distr. LIMITED

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United Nations Industrial Development Organization

Working Party on Industry Profiles Beirut, Lebanon, 4 - 7 May 1970

THE ANALYTIC INDUSTRY PROFILES

A PROGRESS REPORT ON A NEW UNIDO INDUSTRIAL PROGRAFTING DATA PROJECT 1/

> prepared by the secretariat of UNIDO

> > Corrigendum

Change symbol on cover page of document ID/WG.57/4, dated 24 April 1970, to read ID/WG.57/5. .

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Deeply buried within any development project are a number of assumptions concerning what is the best when to contribute to the development of the sector or regions affected by the project. The subject of the following progress report is certainly no different in this respect. The programme associated with the <u>Analytic Industry Profiles</u> can be readily identified as belonging to a school of development thought which maintains that the key to efficient and equitable development lies in the strengthening of institutions and personnel at the national level, to improve their ability to make the right decisions called this approach "development from within", and opposed it to the conventional technical assistance approach wherein institutions, personnel, and resources are, to a greater or lesser extent, superimposed on an indigenous economy in an at'empt to "get it moving".

Upon examination, it becomes clear that this conventional approach necessitates a continuing import of technical services which, as in the analogous case of material aports, places a proportionate strain on the domestic economy. The standard operating procedure which characterizes this approach is to bring in a for ign expert who first spenda a good deal of time in educating himself to the problem and only at a relatively late stage of his "temporary reachines is able to contribute effectively to the problemsolving effort. The first step to this di-too-further pattern is for the expert to levy the country, percently enriched by a counterable patrimony of knowledge segned through his work experience, but no lower of use to the country which has, in effect, and rwritten this particular stope of his education. Apart from some "training" offect exerted by the expert on his local counterpart (if inde d there was one), his leaving the country in effect implies an uncompensat d export of valatile knowledge and ability which is thus no longer available for domestic purposes. Understood from this point of view then, this type of traditional technical assistance evercise amounts to nothing less than an officially-blosted, reverse at-inspired "brain drain".

Now, whereas the foregoing might well represent a satisfactory contingency precedure in a crisis situation where there are no apparent alternatives, it clearly makes little sense as a deliberately chosen, long-run development policy. Accordingly, it is seen as a matter of great importance that increased emphasis now be placed on alternative approaches which emphasize strengthening the domestic capacities of the developing countries to deal with their own development problems. The programme associated with the Analytic Industry Profiles has been drawn up in exactly this spirit. An example drawn from the project itself may help to clarify this point.

As will shortly be seen, one of the chief functions of the new Profiles programme is to facilitate the <u>diagnostic</u> (i.e. trouble-shooting) analysis of industrial activity at the factory or shop level, in a way that will show up weak departments, pinpoint inefficient procedures, reveal cost imbalances, etc. The information generated as a result of these studies should provide valuable insights to managers interested in improving their efficiency, productivity, and competitiveness. Thus, one goal of the new Profiles programme is to take a partial but important step in the direction of institutionalizing the materials and techniques normally associated with management and technical consulting firms, in a way that will permit local personnel to carry out efficiently many of these same functions.

This promises to be a meaningful exercise for at least three sets of reasons. In the short run, because it offers the developing countries a practical means for dealing with some of these technical and managerial problems which can be expected to face their industrial sectors. Additionally, the project permits a contain saving of foreign exchange (or, what amounts to the same thing, credit with development aid organizations) since the bulk of these professional services can now be carried out by nationals.

Lastly however, this approach appears particularly promising when it is realized that it can contribute substantially to the indigenous capacity of domestic institutions and personnel to engage effectively in problem-solving. Concerning this last, it has been observed that what effectively distinguishes a developed from a developing economy is not that the one has problems and the other does not, but rather that the former is generally rather better equipped to analyze, identify, and solve its technical and economic problems. Thus, any increase in the expacity of the developing countries in this key area must be regarded as a major step in the development process.

THE ANALYTIC INDUSTRY PROFILES

I. INTRODUCTION

The purpose of this brief report is to introduce and to summarize recent developments as they affect a new UNIDO project, the <u>Analytic</u> <u>Industry Profiles</u>. It is expected that this project will be of broad interest, particularly inasmuch as it offers a fully defined technique which permits the developing countries to utilize their own domestic technical capacity to carry out the diagnostic analysis of industrial activities at the establishment level, in a practical manner which is expected to be broadly useful for a number of management, planning and policy purposes.

The origins of the present project can be traced back to a research programme initiated in 1965 by the Centre for Industrial Development (CID), predecessor to UNIDO, which was aimed at the systematic collection, analysis and dissemination of useful data on the operational parameters of individual industrial establishments. It was expected that the results of this project would be particularly useful as reference programming data for project-level planners in the developing countries. Fore than 600 case studies were then conducted under the auspices of that programme and have since been published in three volumes under the title <u>Profiles of Hanufacturing Establishments</u>. $\frac{1}{2}$

Volume I, ID/SEB.E/4 (1968); Volume II, ID/SER.E/5 (1969); Volume III, ID/SER.E/6 (available shortly in 1970). As the various case studies associated with the original Profiles Deries were being carried out, the entire project was subjected to a continuing review and evaluation in an attempt to determine the answers to such key questions as:

> 'ho, exactly, is making use of the Profiles' For what purposes' How, in detail, are the results being put to use? Is the job the project sets out to accomplish worth doing? Is there a better way of doing that job?

As a result of this intensive scrutiny a new project, the <u>Analytic Profiles</u>, has now been formulated. "hile this new series has much in common with its predecessor, it also embodies a number of major changes, the effects of which are felt to be sufficiently important as to justify the following explanatory note.

II. THE PROFILES OF MANUFACTURING ESTABLISHMENTS

The Profiles - in both their earlier (descriptive) and present (analytic) variants - offer a rather original approach to industrial programming which, being at least in part somewhat unconventional, is open to a certain amount of misinterpretation. The risk is minimized if we begin by coming to an agreement as to the meaning of a few of the basic terms which are central to the project, as well as by providing a brief but complete account of the historical and substantive background of the proposal.

A. Definitions of key terms

To begin in a general vein, it should be understood that the Profiles address themselves to that particular sub-set of development problems which is identified with the term <u>the data gap</u>. The data gap will be defined here as representing the (usually quite substantial) discrepancy which separates that body of information (primarily quantitative) required to support planning operations from that which is currently available.

More specifically, the Profiles - as well as other related UNIDO projects $\frac{2}{}$ - are addressed to the problems not just of planning in general but of <u>industrial planning</u> in its broadest sense. These range all the way from the highly agcregated activities associated with overall planning and sectoral programming on the one hand, down to the specific technical aspects of project preparation, evaluation and implementation. The expression is thus not, as is generally the case, intended to include only economic programming per se, but also many phases of techno-analytic and policy-making activities at all levels of aggregation throughout the industrial sector.

Accordingly, the <u>data base for industrial planning</u> must be interpreted in equal breadth, as referring to all of that quantitative information which is required to support industrial planning as defined above. The chief sub-set of the data base - and the one which bears directly on the subject of this paper - is <u>industrial programming</u> <u>data</u>. More precisely, the latter is defined to include just those

^{2/} An incomplete list of the "related" projects would include: "The Industry File Systes", UNIDO, November 1969. <u>Industrial</u> <u>Programming Data: Deport on the First International Norking Party</u> <u>on Industrial Programming Data (ID/ 0.23/7, 1968)</u>. "Data requirements for industry analysis and programming" (ID/00.23/4, 1968). "Data requirements for specified stages of industrial project preparation" (ID/0.52/8). "Extracts of industrial feasibility studies" (ID/0.52/2, 1965). "Checklists for individual project studies and planning stages as used in the project screening operation" (ID/06.55/3).

elements of the overall data base which are specific to the industrial sector. To elarify further this distinction, it might help to point out, for example, that whereas both GDP and, say, steel inventory estimates can be considered as elements of the overall data base for industrial planning, only the latter may be properly referred to as industrial programming data.

The body of information which falls under the heading of industrial programming data is itself an extensive one; thus, it is useful to break it down somewhat further into sub-categories. The latter can be accomplished either by defining the sub-sets in terms of their origin or in terms of their use. As to the former, it will be seen that there are three principal sub-categories of origin. namely engineering, economic and accounting data. However, for the purposes of this report it is more useful to think primarily in terms of the two major subcategories of use. These include both indigenous and reference programming data.

Reference programming data refers to all of that information which can be borrowed from the industrial development experience of other countries - or other activities - in order to guide the development of a given project, a sector, or area. "rogramming norms, capital/output ratios, and the old USAID "Industry Fact Theets" - all provide clearcut examples of this category. Indigenous data, on the one hand, refere to that information which describes existing and/or past economic conditions, at both micro and macro levels, in the country, sector, or project in question.

Against this background, there is clearly no difficulty in classifying the original Profiles. These were unambiguous examples of reference programming data. By contrast, the new inalytic Profiles experiment represents something of a mixed bag in these terms. It will be seen that in the first instance the programme is oriented to provide indigenous data at the plant level, though the case studies are also (potentially) useful as reference programming data in a form perhaps similar to that of the original Profiles series.

"The original Profiles series"

It will be easier to understand the present effort to develop the project which is the subject of these pages if one has first a clear idea of what its "parent" project, the original <u>Profiles of Manufacturing</u> <u>Diablishments</u>, was all about.

An unambiguous statement as to the purpose of that project appears on the first page of Volume I.

> The data containe in the Frofiles are intended primarily to assist in preparing economic feasibility studies for industrial development programmes profitability or viability analysis in both pre-project and actual project contexts; and other diagnostic studies on important programming parameters. 3/

Then the following points were emphasized as explaining the distinctive characteristics of the contents of the series:

- (1) The data, as compiled, are intended to follow the structure and performance of existing establishments engaging in various manufacturing activities
- (11) Such establishments are selected from various countries and a common form of analysis and compilation is applied;
- (111) For each industry (specified at a classification level one step more detailed than the LHC 3-digit industries), a limited number of establishments are selected in each country, according to a set of criteria concerning "model" cases
- (1v) The primary data are collected by means of an ad hec questionnaire survey, the participating personnel of selected establishments being briefed and guided by a special expert group organized in each country.
- (v) Since the purpose of the survey is to gauge certain technoeconomic aspects of more or less typical production activities under the unimum set of operational constraints characterizing the particular productive unit, those whe compile the data discovered trivial details whose impact

^{] /} Profiles of Manufacturing Establishments, Volume I (ID/SER. R/4), p.1.

30 100 transitory to affect the overall structural features of the establishments;

- (V1) The number of effective digits in the reported figures does not exceed two or three
- (vii) For certain questions, such as capacity utilisation, replacement value of equipment, etc. (which are not usually handled in accountants' records but constitute important working knowledge on the part of the managerial personnel of each enterprise) even rough but realistic guesswork is accepted as reference information. 4/

It can be observed, in retrospect, that the foregoing were not uniformly adherred to in carrying out the project. In particular, the implicit notion of a "sample" which emerges from point (iii) proved particularly unt nable. Ultimately, establishments were selected for inclusion in the series as long as they were (a) willing to co-operate, (b) not too small, and (c) producing a line of goods and with technologies that could be thought to be reasonably interesting given the demands and potentials of the developing countries.

The basic idea of the Profiles was thus to show the developing countries, for example, eight ways of producing ball point pens (assuming, of course, that the latter represent a broadly interesting production possibility). The concept underlying the project might well be characterised as a kind of <u>arti-programming norm</u>. The basic argument runs as follows: in the real world, factor costs are so variously skewed, uncertainty is so rampart, and non-technical problems are so dominant, as to make programming norms based solely on engineering data of, at hest, limited usefulness for actual programming purposes at the present time in the developing countries.

Ibid., page 2. The guoted materials have been slightly modified and abbreviated. This being the case, it is clear that there can be no single "beet" way of producing ball-point pens. And even if it could be "proved" that an "optimal" prototype productive process existed (for a given set of conditions), the results might well prove disasterous if one were to try to imitate it pro forma in a developing country.

Accordingly, it was felt that it would be far more helpful to show the developing countries several alternative ways in which each major meaningful production possibility is in fact being handled, each in a radically different techno-economic environment, than to try to present them with information on the process or the ideal plant. This, then, is the idea that lies at the heart of the Profiles effort, having been expressed in other words in the "Introduction" to the first volume:

In brief, the primary purpose of the Profiles ceries is to provide a 'zoo" of live speciment of industrial establishments. Aside from the general problems of observation errors, this zoo may be studied by various users for different purposes. The intent is not to force upon the users < hast/ image of "representative" specimens, but rather to invite them to negure it these were with a number of possibilities evisting in the real world.

As a 'zoo' of live speciment, the collection provider raw materials for further study rather than a "manual of instruction" for immediate application. For the present, the zoo is stocked in a rather arbitrary and limited manner and its collection may not be large enough for precise delimitation of programming "norms" in many of the industries considered. For this reason, the collection should be interpreted as complementary to other kinds of reference data, especially those from engineering sources. 5/

* * * * *

5/ Ibid., page 3.

"ith the publication of the third volume of the original Profiles, ⁶/ a total of more than 625 case studies have now become available. These are currently being used in a large number of developing countries for a variety of purposes, not all of which had been clearly foreseen in the early years of the project's formulation. Careful examination of the contents of the three volumes reveals that as the series was developed over time, there was a marked tendency to include more and more detailed data on each firm surveyed. Thus, it happens that three separate "generations" of progressively more detailed case studies can now be identified.

The first generation, comprising some 150 case studies, was carried out in Yugoslavia. The data summaries resulting from these filled a single page with basic engineering and accounting data on each reporting unit. A sample "first generation" case study has been attached as Annex A to this paper.

The second generation, consisting of about 400 case studies, was carried out on the basis of a somewhat more detailed questionnaire in France, Japan, 51 Salvador, India, exico, Israel and Tanzania. The resulting case studies were then summarized in the form of two-page presentation formats. A sample second-generation case study has been appended as Annex B below.

^{6/} Volume III (ID/SER.E/6), which is expected to become available in the second half of 1970, is currently available in a considerably abbreviated form as "Profiles of Hanufacturing Establishments: Selected cases from Volume III", (ID/MG.57/2).

Beginning in 1968, all case studies were carried out on the basis of a still more detailed questionnaire which has been widely distributed in its original English Inngurge version and has subsequently been translated into German, Spanish, Italian, and Russien for field use. <u>1</u>/ About 80 of these "third-generation" case studies, which were carried out in Austria, Germany, F.E., and Italv on the basis of the expanded questionnaire, have been made available by means of 4-page data summary formats in Volume III. Again, a sample case study of this more elaborated approach has been attached as Annex 6 to this report.

C. Evaluation and reformulation

As the Profiles case studies were being carried out, the result were continuously subjected to analysis and evaluation, not only ty the Secretariat of UNIDO but also by universities, consulting firms, and experts in the field who communicated their findings to UNIDO. The most immediate result of this stream of feedback was the continuous marginal adjustment of the questionnaire and procedures which resulted in the successive "deepening" of the inquiry as has been noted in the preceeding section. These and other such marginal changes proved to be very much in the nature of short-run adjustments and were made within the framework of the original project outline.

^{7/} The English-language version is available as a UNIDO document ID/NG.23/6, "Standard questionnaire form for the compilation of primary information for the Profiles of Manufacturing Establishments." It should be noted that it is this "third-generation" questionnaire which has served as the point of departure for developing the new Analytic Profiles questionnaire.

In time, however, it became apparent that a more radical transformation of the project (which, it should be borne in mind, was initiated as a "research" project) was going to be required if it was to fit in with the new thrust of UNIDO's activities in the developing countries, as is touched on in the Preface to this study. It will be recalled that the major goal of technical assistance activities should now be to strengthen the ability of netional development cadres to deal with their own development problems, the key words in this new approach being "incountre" and "catalytic". Now, although the original Profiles were already somewhat oriented along these lines, it soon became obvious that with further adaptation the general usefulness of the project along these lines could be greatly chanced.

The first step in this direction was to convene a special meeting of the International Forking Party on Industrial Progressing Data, $\frac{8}{}$ in November of 1960. The Forking Party discussed and weighed the results of the first two volumes of the Profiles series, finding in a general vein, that:

> The goal of such reference data systems is not to create "instant experts": rather it is to provide but one of the entire battery of skills and tools which is required for the daily use of experts, thus permitting a depersonalized diffusion and exchange of knowledge and experience.

Nore specifically, it was noted that:

Perhaps a major goal of the Profiles should be to provide a series of practical useful benchmarks or reference points, thus encouraging the diagnostic evaluation of local manufacturing establishments in an increasingly use-oriented manner.

E/ The findings have been made available in the form of a UMIDO document entitled <u>Industrial Programming Data</u>, Report of the First International <u>'orking Party on Industrial Programming Data</u>, UMIDO, ID/42, 1969. The following cuotes from that document have been somewhat condensed, though this has been done while preserving the sense of the original findings.

At about the same time several diagnostic studies on the Profiles were being undertaken in the Netherlands and Germany, while in Italy a limited series of third-generation case studies were commissioned with the general mandate of making recommendations as to how the Profiles series could be further rationalized and made more useful. It became apparent that a whole new orientation was going to have to be introduced into the series if the Profiles approach was to realize its full potential, since

> Thenever the management of a given enterprise agrees to co-operate with a Profiles Team, it must be prepared to devote the equivale t of at least two full working days of staff time, on the part of accountants, personnel officers, engineers, etc. That is to say, the total cost (mostly hidden) to the firm of co-operative with this protect can be expected to range the here from 250 to 1500 and beyond for most moders enterprises. There this is not an inconsiderable expenditure of funds - indirect though it is - it is clear that HATDO must now be prepared to provide a satisfactors answer to the query of the firm's management, "Thy should we co-operate?". 24

The author of that study then went on to suggest several ways that UNIDO could get bround this problem, of which perhaps the most meaningful alternative was:

To reformulate the Profiles so that they could serve to perform a management consultant-type service for cooperating enterprises in advanced as well as in the lessdeveloped countries. <u>10</u>/

2/ "Profiles, Italy 1969, Case Study 370 (1)", a mimeographed report prepared by EcoPlan International, Rome, Italy, Section IV, p. 14.
10/ Ibid. Fortunately, it became apparent upon inspection that the project could, with appropriate modification, be redesigned to meet these ends. The key to this lay in the fact that up until this time what was probably the potentially most rewarding "informational pay off" of the case studies had been entirely ignored. Here was a situation in which a considerable amount of information was being collected on each industrial unit - information which was of enormous potential value to the managers and engineers of the particular enterprise, but which was not being put to use for or by them.

Accordingly, it became guite clear that the next priority would be to restructure the Profiles in a way that could make them primarily useful for the diagnostic analysis of participating establishments in order to provide decision-information for their managers. Further, it was agreed that every effort should be made to retain a basic comparability with the earlier Profiles case studies, so that the considerable stock of reference programming data which had thus far been generated by the series could be useful in conjunction with the new approach.



III. THE ANALYTIC INDUSTRY PROFILES - A NEW APPROACH TO INDUSTRIAL PROGRAMMING

As a result of the foregoing events, it was decided in the latter part of 1969 to mobilize a portion of UNIDO's resources to develop a new project as an extension of the Profiles series in accordance with the following programme outline.

A. Programme outline

In brief, the goal of the new programme is to provide a practical analytic 0 chaique, complete with all required supporting materials to assist national survey teams in carrying out the diagnostic analysis of industrial activities at the establishment level, for the following general purposes:

- Management and Technical consulting

to provide a concrete basis for rendering specific advisory services for productivity and efficiency improvements, at both plant and process (shop) levels.

- Policy evaluation

to enable the evaluation of the effects of government policies on the actual cost structures and relative productive efficiency of existing industrial plants.

- Reference programming data

to further expand the stock of international reference data for incustrial programming and planning purposes.

Building on the comprehensive base provided by the original Profiles project, with particular reference to the materials and techniques associated with the so-called "third-generation" Profiles, the new series will have to be modified and improved in each of the following key areas:

- Inquiry materials, must be specified in accordance with the sector.
- Inquiry procedure, must involve the direct and active participation of field teams.
- <u>Analytic technicues</u>, must be stressed with particular emphasis on cost accounting.

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- <u>Inquiry teams</u>, should be more broadly multidisciplinary, with experience in the particular sector under study.
- <u>Plant managers</u>, must now co-operate more actively with the inquiry team.

B. Notes on possible uses

In section A above, reference is made to three "schools" of uses to which the results of the Analytic Profiles would appear to lend thenselves. It is unfortunately not possible to draw up a complete, uniform listing of all possible uses to which any or all Analytic Profiles programmes might be put. This is the case for several reasons. In the first place, there will be enormous variation of uses from project to project. In one instance a Profiles project might be undertaken in order to say, determine what is wrong with a given "sick" sector of the economy. In another case, such a project might be implemented in order to determine export possibilities at the product level. Thus, it should be clear that there is considerable potential for inter-project variation.

Moreover, it should be recognized that a project-in-progress like the Profiles is certain to turn up new uses as it goes along, many of which could not be forecast with much certainty. Accordingly, it has been decided to engage, not in a <u>definitive</u> but in a <u>suggestive</u> listing, in the hope that the latter approach will suffice to point out the direction in which this approach can be further developed. This has been done in outline form below.

- (i) <u>Management and Technical consulting uses (enterprise level</u>)
 - to spot involuntary under-utilization of capacity
 - to identify intermediate production possibilities
 - to identify cost imbalances
 - to identify production bottlenecks
 - to indicate how and where new shops (processes) can be added
 - to assess scope for improving labour productivity at all levels of production
 - to determine ability of firm to compete internationally or in a given market
 - etc.

(11) Policy evaluation uses

- to evaluate the effects of a given government policy (such as wage rates, taxes, subsidies, depreciation allowances, import duties, interest rates, etc.) on the cost structure and performance of both individual establishments and industrial branches;
- to assist in drawing up sectoral targets and programmes for global productivity programmes
- to identify industrial export possibilities, both with reference to sectors and establishments which by virtue of their cost structures may be able to compete outside of the domestic economy and at the level of potentially promising product lines.
- as a complement to aggregate industrial surveys, by providing in-depth Analytic Profiles case studies on a sample basis. This can be useful for a variety of planning/policy purposes.

(iii) Reference programming data

For the time being the assumption will be made that the results of the Analytic Profiles will be organized far reference programming data purposes in a published form along the lines of the current Profiles series. In all cases, of course, the wishes of the country and the firm will be paramount in determining whether or not the results will be used as referece data. For publication, the individual case studies will probably have, in most cases, to be "neutralized" in either or both of two different senses. Generally, it will be necessary to disguise the identity of the firm. Occasionally, it will be preferable not to identify the country. In either case, a minor modification of the data and the simple addition of some minimum random error will serve to disguise the origins of the case study. Thus, publication should be able to take place in most instances without any breach of confidentiality regulations.

Eventually, however, it will become necessary to face the problem of determining how the considerable quantity of data which is generated in performing each original case study can be made available in a more dynamic, efficient and broadly accessible way. It has already been suggested in the . . 4

report on the "Industry File System" (UNIDO 1970). that such data might well be fed into some sort of national or multinational data bank. It can be expected that such more efficient alternatives will become increasingly attractive as work on this project proceeds and a larger stock of programming data is accumulated.

C. Structural modifications in the new series

In section A above, a preliminary indication was given of how the new series must be differentiated from the original descriptive Profiles in order to meet its objectives. Each of the required areas of modification mentioned there will now be treated in somewhat more detail.

•(i) Inquiry materials

The new Profiles approach differs considerably from its predecessor in this respect. The original series treated all of the many different types of manufacturing activity without adjusting its basic modus operandi to take into account the differential characteristics of the specific industrial branch under study. Thus, a common questionnaire and standard survey technique were uniformly employed in all cases.

Given the requirements of the new series, it will now be necessary to introduce a new degree of elaboration into the Profiles methodology, "tailoring" different techniques and materials so as to make them more appropriate for the study of each major "sector" of industrial activity under consideration. $\frac{11}{2}$

^{11/} The problem of what constitutes a sector in this sense has not yet been finally resolved. It may be, for example, that food processing can be treated as a sector. Or aternatively, this may prove too heterogeneous an activity to permit meaningful analysis under the new Profiles programme. In this event, it may prove necessary to be more specifie in such a designation and to treat "food-canning" or "grain mill products" as "sectors" in this sense.

The final implication of this is that three separate only of working documents will have to be elaborated for each major sector to be studied. These consist of:

- A questionnaire, which will not only contain the usual mestions and instructions for acquiring data from standard management and accounting sources, as was the case with the earlier Profiles studies, but now must additionally provide a series of detailed benchmarks, reference points and instructione to guide the Profiles Field Teams in collecting and organizing original data at the plant, process (shop) and product level.
- <u>A Methodological Note</u>, which will explain in detail: how exactly, from what sources, and in what sequence data is to be collected; how intermediate results are to be checked; how the final results are to be processed and, then, put to use.
- <u>A Data Summary Format</u>, which will indicate how the results of each case study are to be summarized for presentation as reference programming tata.

(11) Intuity procedure

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The Analytic Profiles differ also from their prodecessors in that they will require far more active administration and participation on the part of persons conducting the surveys, than was necessary for the old series. No longer will it be possible to obtain data simply by asking managers to fill in a (relatively) simple questionnaire. The new series will have to be administered in a rather aggressive manner by a team of qualified profe sionals who will be required to draw heavily on first-hand observation and direct inquiry, as well as on the inspection of specialised records in determining the data inputs of the survey. . . .

It is not possible to forecast with complete certainty the number of man-days which must be devoted to collecting data on each establishment. However, on the basis of experience, it would so m reasonable to e pect - depending, of course, on the depth of the inquiry, the size of the plant, etc. - that the team will spend anywhere from one to four days on each case. Assuming two as a reasonable average, this will provide six man-days for each examination, sufficient time to allow for a reasonable detailed inquiry.

(111) Analytic techniques

One reason the decision was taken to "tailor" the Analytic Profiles with respect to the particular sector under study arose from the need for detailed instructions as to how to carry out the inquiries. In most cases under the new programme it will no longer be sufficient simply to tap existing administrative and technical sources of information, unless the firm in question has already established a finally detailed system of cost accounting and production budgeting capable of providing all of the data required for the purposes of the study. In the case of the developing countries, the latter situation can be expected to be the exception rather than the rule. In mest instances, the Profiles Field Team most be prepared to actively some out, resultify and assemble a considerable quantity of original data, much of it of a cost accounting variety, on the strength of its own in-plant investigations.

(iv) Inquiry teams

The Profiles Field Teams (the units conducting the actual induiries) are expected to assist in preparing as well as administering the questionnaires for the respective industrial branches in which they are specialized. The exact professional composition of the teams is not important, although it is imperative that between them the team members exhibit a broad understanding of the economic, technological, accounting, and administrative characteristics of the estivity under study. Thus, a "best" combination would probably entail one industrial economist, an industrial engineer, and an accountant/management expert, all with experience in the branch under study. It should be noted here that their active involvement in the preparatory and analytic stages of the project is nearly as important as their participation in the field studies themselves.

(v) Plant managers

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It is he e where a major gualitative improvement in the data input can be expected to take place. In the past, managers have agreed to co-operate with Profiles Teams for a variety of purposes, but seldom if ever because they thought that the results of the study would be directly important for them. Now, however, with the new Profiles approach, the entire emphasis of the project has been changed. Accordingly, since the plant managers will now expect to be a major (in many instances the principal) beneficiary of the results of the case study, a new and more active type of participation can be expected on their part. This should serve to improve the quality of the resulting case studies.

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IV. AN IMPLEMENTATION PROPOSAL FOR AN ANALYTIC PROFILES PROJECT

In the following section a generalized implementation proposal for a sample analytic Profiles programe has been outlined, with the intention of providing a <u>preliminary</u> guide for those countries and institutions interested in initiating such a project. Thus, the primary goal of the following is to provide a clear idea of the specific steps which must be taken once the decision has been made to initiate such an Analytic Profiles programme to turn what is still no more than an idea into an implementable project. To make the whole procedure easier to visualize, a hypothetical Analytic Profiles project for a given (hypothetical) country has been referred to. Of course, when the time comes to prepare an actual project, a fully individualized implementation programme will have to be drawn up, taking into full account the unique operational context for which it is intended. However, the basic outline which has been provided here should prove useful in this regard.

A. Stage I: Programme definition

The first step will be to determine the specific requirements which are to be met by the programme. The second, to estimate the scale of resources available for the project. These first two steps, which can be thought of as "framing" the project, are essential in drawing up an appropriat: programme, with in a complished here in step 3.

1. Specify programme objectives

To carry out an Analytic Profiles project in country "X" in order to make recommendations for productivity and efficiency improvements in four key sectors of the nation's industrial conomy, as well as to identify the need for changes and improvements in the particular sets of government policies, which affect these sectors.

To accomplish this penceral objective, it has been determined that some 140 industrial units in four sectors of the domestic econory must be analyzed in detail. The final results are explicted to be available within less than a year from the time of initiation of the project.

2. Letimate resources available for project

Total project costs should be in the range of \$25,000. Moreover, an upper limit of about 84 man-months of professional input (7 mun-years) have been set for this project.

3. Prepare a detailed project programme

Given the above outline of requirements and resources, it should next be possible to draw up a detailed timephased programme which will at once meet the performance and budgeting specifications which have thus been clarified.

In this case, total active project life is expected to span a period of about nine months; however, this does not take into account either pre-p oject preparations (steps 1-3 here) or any post-project follow-up activities as may occur. The details of the actual (sample) project programme **are spread** out over the following paragraphs. However, special notice is given here to the staffing proposal, inasmuch as it explains several key factors which are not treated elsewhere in this proposal.

Staffing pattern: In this case other than the UNIDO Adviser (who will be in the country for about 6 weeks), the project will be entirely staffed by the Government. In addition to a three-man expert team (not taking into consideration secretaries or clerks) which will perform all headquarters and control functions, the project will require separate Profiles Field Teams for each of the four industrial branches under study.

(i) <u>Headquarters</u> Team:

• 1 gd.,

These experts will be involved with the project over its entire active duration, in this case about P' months beginning with Step 2 of the following stage. The project manager can expect to be involved for at least ten months in all. The Headquarters Team will oversee the entire project, direct the activities of the several Field Teams, and be primarily responsible for the analysis and use of the results. It will consist of:

- Project Manager: (a senior Industrial Economist or Engineer), who is an able administrator, with experience in programming at the establishment level.
- Industrial Engineer (or Economist if the above is an Engineer) with experience in programming and general knowledge of management accounting techniques.

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- Accountant/Statistician, preferably with experience in both cost accounting and industrial statistics.
- Secretary/Clork: (A second clerk may also be required).

- Approximate man months - 35

(11) Profiles Field Teams

The four Field Teams will not only carry out the bulk of the case studies, but will also assist in the analysis and use of the final results. Each Team will consist of:

	- Industrial Economist - Industrial Engineer - Nanagement/Accountant Expert
- 	- Approximate man months - 50

B. Store II: Project preparation

The activities in this stage can be grouped into four major "steps" and are in this case programmed to be carried out over a $3\frac{1}{2}$ months period.

Step 1: Preliminary preparations:

Prior to the actual initiation of the project, the Government will be required to deal with such preliminary matters as designating the project manager; recruiting the Headquarters Team, arranging for financing, logistical support, co-operation from related government egencies, etc. It is early in this step that the Project Malager should become available for the project and that all UPIDO background materials must be supplied.

Step 2: Basic organization and proparation of materials: (1 month)

It is at this step that the entire Headquarters Team is assembled and the actual project sets under vey. The following is an incomplete listing of the activities to be carried out at this point.

- Drawing up a detailed implementation programme;
- Final ducision on sectors (branches) to be covered;
- Preliminary list of, and tentative agreement with, potential participating establishments,
- Develop four basic sectoral questionnaires;
- Establish detailed procedures for conducting field studies:
- Preliminary selection of Profiles Field Teams.

(1 month)

(31 months)

Stop 3: Final preparations:

(3 weeks)

- Arrival of UNIDO Adviser (for a stay of l¹ months).
- Finalize implementation programme;
- Final selection of Profiles Field Teams;
- Review questionumires
- Review and finalize procedures to be carried out in Stageou III and IV.

Step 4: Training and Field Test:

- Intensive Training Workshop for Profile Field
- Pre-test of the questionnaire and procedures (at least ten case studies);
- Finalization of questionnaires and procedures.

C. Stage III: Field Work

This stage will be devoted entirely to visits by the various field teams to co-operating enterprise for the purcoses of collecting data in accordance with the questionnaires and procedures established as per the above. During the varier parts of this stage, it is expected that the Headmarters Unit will use its own technical capacity to carry out some additional case studies within the area that they are located. No fixed numerical targets should be pre-set for this activity, however, since the major concern of the Meadquarters unit will be to discharge their responsibilities as per stages II and IV. However, in this case, it would be reasonable to expect that they could accomplish at least 10 such case studies over the three months period during which field work is being carried out. Assuming that at least 10 studies will have 1 on completed in Stage II for pre-test purposes and that each Field Team completes its minimum quota of 30 studies, a total of 140 case studies could thus be realized in all.

D. Stage IV: Analysis and use

(3 months)

Even within the field work stage, while the various Profiles Field Teams are still conducting plant studies, the Headquarters Team can already begin to check all case studies as received for internal

(3 months)

(3 weeks)

consistency. Thus, there can be expected to be one month of overlap between these two stages. The case studies will have to be verified on a sample basis for accuracy, and then can be put in final form for analysis and use.

In this particular case, as was indicated, the results of the project are to be put to work for the two sets of purposes: namely,

(i) Productivity and officiency improvements

The individual case studies should be carefully examined by the Headquarters Team, in conjunction with one representative of each Field Team (who should be available half-days for the last two months of the project's life) and other sources of technical expertise, to determine possible recommendations for productivity or efficiency improvements at the level of both the plant and the process (shop) for those establishments which have participated in the project. These will then be communicated directly back to the plant's management.

(ii) Industrial policious

On the basis of a careful analysis of the results, the Headquarters Team will make the results of their findings available to those government organizations responsible for determining industrial policies and strategies. Editionally, the results should be scrutinized to determine if they indicate the advisability of changes in the existing structure of relevant government policies as they effect the several branches, specific regions, individual units, or the industrial sector as a whole.

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E. Stage V: Follow-up

There are two sets of activities which will be carried out in this stage, namely evaluation and preparation. It is expected that UNIDO will be active in both of these and will accomplish this by **sponsoring a follow-up mission which will involve** several of the UNIDO staff members who are urgently directing the Analytic Profiles project, consultant experts, and a few **rep**resentatives of other countries and organizations. The latter will include both those already experienced in Profiles projects, and others who are interested in undertaking such an activity.

(i) Evaluation

It is felt desirable in this specific case that the results of the particular project be evaluated by an international panel, under the assumption that such an evaluating effort is going to be useful for two distinct purposes:

First, to indicate additional ways in which the results of the specific Profiles project can be put to use in the country in question; and
Second, to indicate how the Analytic Industry Profiles as an international development project can be up-graded or transformed to make it more effective and more efficient in dealing with the problems for which it is intenacd.

(ii) <u>Preparation</u>

An additional but related activity, which will primarily be carried out with the use of UNIDO resources, will involve the further preparation of the case study results in a form that makes them available as additions to the (international) stock of reference mogramming data. The several alternative techniques which can be used in doing this have been touched on in the preceding chapter.

V. UNIDO'S ROLE IN DEVELOPING THE NET SERIES

In assisting in the further development of the new Analytic Profiles, the Secretariat of UNIPO is prepared to perform a sharply different role than was the case with the original Profiles series. In the past the Secretariat had assumed the full burden for structuring the overall project; commissioning, overseeing, and paying for the various plant studies: evaluating the studies and plugging them into a summary format and finally publishing the results in the various volumes of the series <u>Profiles of Fanufacturing Establishments</u>.

In the future, by contrast, UNIDO will take a primarily catalytic role as is appropriate to the spirit and methodology of the new Analytic Profiles approach. UNIDO's support of this project will take several forms, some of which have already been touched on in the discussion in the proceeding chapter.

A. Preparation of "inquiry prototypes"

In carrying out a given Analytic Profiles project, the task of selecting the sectors and individual establishments to be studied will be left entirely to the national authorities who are to perform the inquiry. However, in order to guide the various national Profiles teams in their efforts to develop appropriate questionnaires and other related materials for each sector under study, UNIDO will undertake to make available prototype Profiles inquiries for several of the following manufacturing activities:

- food processing,
- textiles,
- fortilizors,
- electrical machinery,
- pharmaccuticals, and
- metal working industries.

A draft study has already been prepared on the last of these and is currently available in draft form to guide the further development of the series in this and other sectors. $\frac{12}{}$ Additional prototype sector studies are expected to become available in the near future. Each of these, of course, will have to be adapted for local conditions, however, it is expected that as background materials they will be invaluable guides for the national teams.

Moreover, to assist the national Profiles teams in carrying out their activities, UNIDO is not only undertaking to provide prototype inquiries, but also has prepared a working paper under the title "Main elements of industrial cost accounting - a preparatory note for the Analytical Profiles". It is expected that this note will be further elaborated in a form that will be more directly useful as an operational guide for the new Profiles inquiries. "Very attempt will be made to supply additional supporting materials which will be of general interest to the developing countries as the need for these is clarified.

B. Sponsorship of pre-project working parties

UNIPO has already initiated several "pre-project" working parties for the Analytic Industry Profiles. It is expected that these meetings will explore ways in which such projects can be usefully initiated at the national level. As was noted above, the first such exploratory meeting took place along inter-regional lines in the torm of the International Working Party on Industrial Programming Data which met in Vienna in 1968. As the first of a new series, the Working Party on Industry Profiles has been scheduled for Beirut, bebanon in Fay of 1970, meeting under the joint auspices of UNIDO, UNESOB, and the Industrial Development Centre for Arab States. A second Working party on the Malytic Profiles has been tentatively slated to take place in Bulgaria in June of this year. In addition, related meetings are currently under active consideration for several latin American, one Middle Eastern, and one Far Eastern country. A number of similar meetings are also anticipated for the near future.

^{12/ &}quot;The Analytic Profiles: Draft Questionnaire, oriented to the metal working industries", UNIDO, ID/MG.57/3, 1970.

C. Active participation in an advisory capacity in on-going projects

As has been noted in the preceding chapter, UNIDO is prepared to play an active <u>advisory</u> role for countries and organizations interested in carrying out Analytic Profiles projects. This participation can take several forms. Besides supplying all of the basic background materials as currently available to support such a project, UNIDO is prepared to:

(a) dispatch short-term technical advisory missions to advise the national outhorities on:

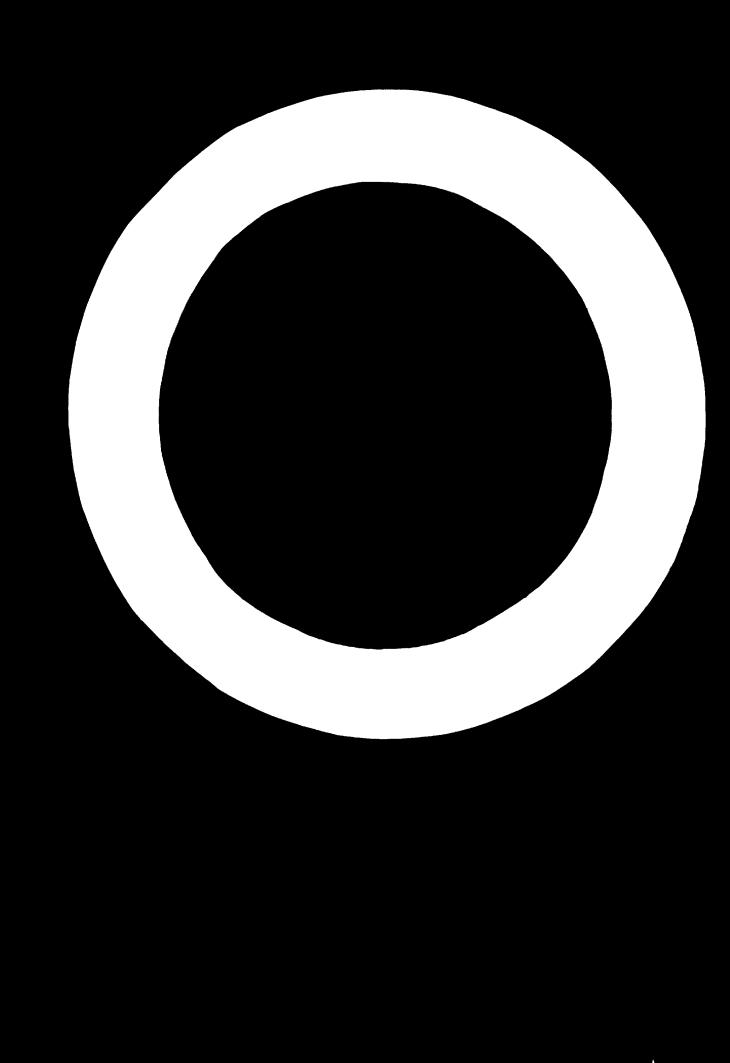
- setting up local projects,
- reviewing and revising prototype materials to assure their approxiationss for local conditions,
- training Profiles Field Teams,
- training Profiles Field Coms,
- instructing Here quarters unit, etc.; and moreover to
- (b) arrange for short-term follow-up missions to:
 - evaluate results,
 - indicate how they can be put to further use within the country and to
 - propare the case studies for eventual use as international reference programming data, etc.

D. Proparation of the results as reference programming data

The details of this final stage in the active life of a given Analytic .rofiles project have been treated in several other sections of this report. The matter has been singled out at this point, largely inasmuch as it is expected that it will be UNIDO that will bear most of the costs involved in preparing the case study results, so that they will be available as further additions to the international stock of reference programming data.

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TY POWER, Consuding og Helipment - Installed oge		of ammonia and elighuric acid; Biso similing is the ampply dep	; the proces	sing of superphose		

(MDITIONS: mu listance, excellent; ideal ares, fair.

a tracty and water internally supplied, gas, excellent.

"ne dential, health and represtional, educational, fair.

The storage fact that within the enterprise are limited. A live quarts y of ficiend products is stored with the facilities of lo atorage company as

Sec.

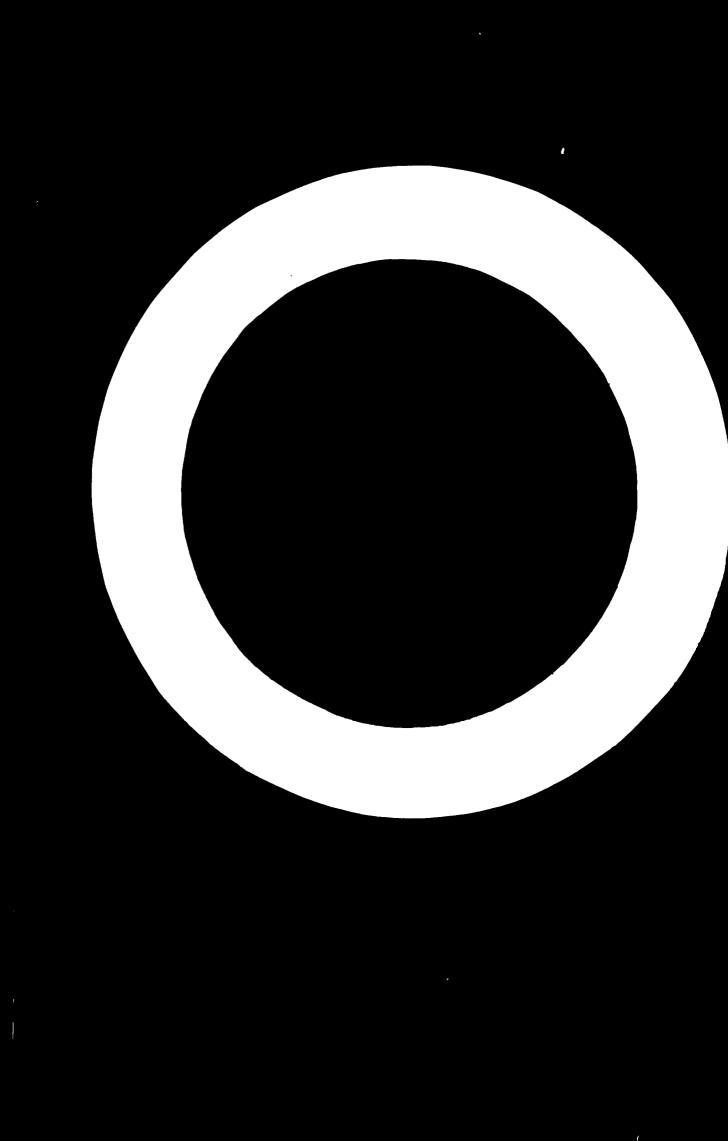
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IV. ANNUAL PRODUCTION				(•)	Unit(+*)	Total	VE VALUE AUGEN	
1060	Yr. ef	Quantity p	roduced	Nominat	\$P7108 25	production	(4)(6-)	
Products for group of products)	first grad.	Unit	Output	capacity output	factory (LIS S)	value 1000 US S)	1. Wagns & saterins	A an
						· · · · · · · · · · · · · · · · · · ·	Engineering of the state of the	,
- Ammonium sulphate	1951	L 1	123,763	150,000	51.16	6,004	Other employment C. / Cetter, 1	
							2. Other pay ments for unployees	а.
- Single super phosphate	1953	1	86,119	118,000	11.92	2,145	3 Annual deprecision 4 Rentals paid	•
Intermediate products:							5. Interests & coyaltan	1
							7 Other mid bus taxes	- X - 4 155
(Ammonia)	1951	i (22,385)	(\$5,000)	•	-	8. (-) Subsidies 9. Corporate mostik, bytom to	
(Sulphuric acid)	1951	1 (1	108,042)	(135,000)	-	-		
	TOTAL V	ALUE OF P	RODUCTI			9.349		ಕ್ಕೆ 'ನ ಕನ್ನಡ ಸಂಪರ್
(*) Assuming e 3-shift operation and 3	15					*******	VII. MONTHEY EAHNING BALES	
(Shere are 69 substitutes or relief	workers	to make					The second	of Average nambing stat
possible 6 days/wsek continuous ope (**) Unit price does not include sales (• •						(End of 1961) eraps	AUP Y
							TOTAL 8	
							- Cupervisors	· · · ·
CONDETING INPORTS:							- Engineare () - Techniciane ()	
² L.P. price of competing imports without	A tariff :	for enaug	ium mul	shata ia A	53.84/1		- Accountante - Selva officere	
to which tariff rate of \$ 0.05/k + 3% ad	valores	La applie	d. Sin	als enser ;	sheephete		- Other professional staff(s) :	2.84
is not immoniad.				• • • • •			- Clerks & typiate 30	144
EXPORTS. None.						·		
CAPACITY ITELIZATION:							2. Local operatives FOTAL. 40.1	;
Productive capacity is underuttlised due		lini *		• • •			- Supervieore	- 18 4 No. 46460
are dependent on imports.	eo ineuri	1014n1 8	mbblà oi	r the raw s	nato riale	₩hich	- Poresee	-
V ANNUAL CONSUMPTION					Tatel		-Machine operators 4.0 - Universitions 40	1
	Clustify	termined	5		eenaung reive	tion:	e. drivere	4 (j. 1) 1 (j. 1)
(1966) I Energy and water	Unit	Parchese	Import	ed Tariff rain	1000 (18		- Unskilled & part-time -	
TOTAL.					ٽ ر 8	_		
m	· · · ·				- 0,0			
- Electricity		19.240			7.4		3 Europan amplication	
~ Liquid fuele and lubricants	DOO KWN	19,240			296 37		3. Foreign employees 707AL	-
- Liquid fuele and lubricante - Gee (included is production mat.) () - Steam	000 Kmm 000 a3 000 i	19,240 17,522 223			37 155		101AL:	na Na teo teo teo ana ang
- Liquid fuele and lubricants - See (included is production mat.) O - Steam	00 a3	17,522			37			in der eine son der son der
- Liquid fuele and lubricante - Gee (included is production mat.) (- Steam - Mater	000 a3	17,522			37 155 304 38		101AL:	nan to organization Markati to digitation
- Liquid fuele and lubricante - Gee (included is production mat.) 0 - Steam 0 - Nater 0 2. Production materials PDTAL 0 Natural are	000 a3	17,522			37 155 304 38 <u>3,154</u>		101AL:	na i i i i i i i i i i i i i i i i i i i
- Liquid fuele and lubricante - Gee (included is production mat.) 0 - Steam 0 - Nater 0 2. Production materials PDTAL 0 Natural are	000 a3 000 i 000 a3	17,522		. -	37 155 304 38 <u>3, 154</u> 157		POTAL:	date manageric c
- Liquid fuele and lubricante - Gee (included is production mat.) 0 - Steam - Mater 2. Production materials PDTAL - Maturel gas	000 a3 000 i 000 s3 000 s3 000 s3	17,522 223 1,662			37 155 304 38 <u>3,154</u> 197 1,074	10 7	POTAL: (*) Physics and general devices on a second device on a second device on a second device of the second dev	ense marengalan y vnader r:ntite (115 ng)
- Liquid fuele and lubricante - Gee (included is production ant.) 0 - Steam 0 - Water 2 Production materials PDTAL - Naturel gas 6 - Sulphure - Assonie	000 a3 000 i 000 a3	17,522	. •		37 155 304 38 <u>3, 154</u> 1,974 648	707 - P - H	POTAL:	Babe marenga an g ugade a a HABa (LES) (g) a sur a suran a sur a suran a suran
- Liquid fuele and lubricante - Gee (included is production emt.) 0 - Steam 0 - Water 0 2. Production materials <i>TOTAL</i> - Neturel gas - Sulphure	000 a3 000 i 000 s3 000 s3 000 s3	17,522 223 1,662	•	•	37 155 304 38 <u>3,154</u> 197 1,074	707 - P - H	POTAL:	diade maretgalues y ugades articidas (tS) (g) unades (tS) (g) unades (tS) (g) unades (tS)
- Liquid fuele and lubricants - Gee (included is production emt.) - Steam - Water 2. Production materials - TOTAL - Neturel gas - Sulphure - Annonie - Bulphuric actd (purchased from	000 a3 000 i 000 s3 000 s3 000 s3	17,522 223 1,662			37 155 304 38 <u>35,154</u> 157 1,074 648 211	707 - P - H - N 4. Bus	POTAL:	abbernasiongisticų vagilei ir KNu (d.S.g.) ir ir ir ir ir ir ir ir ir ir ir ir ir i
- Liquid fuele and lubricante - Gee (included is production mat.) O - Stean - Water 2. Production materials 707AL - Maturel gas - Sulphure - Assonie - Sulphuric astd (purchased from outside)	000 a3 000 i 000 s3 000 s3 000 s3	17,522 223 1,662	•		37 155 304 38 <u>3, 154</u> 1,974 648	707 - P - H - H - H 4. Bus 707	POTAL:	abbernasiongisticų vagilei ir KNu (d.S.g.) ir ir ir ir ir ir ir ir ir ir ir ir ir i
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- Liquid fuele and lubricante - Gee (included is production mat.) O - Stean - Water 2. Production materials 707AL - Maturel gas - Sulphure - Assonie - Sulphuric astd (purchased from outside)	000 a3 000 i 000 a3 000 a3 000 a3 1 1 5	17,522 223 1,662	••••		37 155 304 38 <u>35,154</u> 157 1,074 648 211	707 - P - H - H - H 4. Bus 707 - T - T - C	POTAL: (*) Physicsen, particlus employed armutelais & supple armutelais & supple actagings apair & monstenarie on-factor ervice inpute messervices purchase (At Yaneport, storage & insurance communication, advertisements, etc.	abbernasiongisticų vagilei ir KNu (d.S.g.) ir ir ir ir ir ir ir ir ir ir ir ir ir i
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- Liquid fuele and lubricants - Gee (included is production est.) 0 - Steam - Water 2. Production materials <i>PDTAL</i> - Naturel gas - Sulphure - Annonie - Sulphuric asti (purchased from outside) - Phosphoris rook (*) (*) Import lisence is required for phospi	000 aj 000 i 000 aj 000 aj 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17, 522 223 1,668 - - 71 -	180		37 155 304 38 3,154 197 1,074 648 211 1,064	707 - P - H - H - N 4. Buss 707 - T - C 5. Wort 707	POTAL:	dar marapan j raphi - internet (1996) (1997) j ratio construction (1994)
- Liquid fuele and lubricants - Gee (included is production emt.) 0 - Steam 0 - Water 2. Production materials TDTAL - Maturel gas - Sulphure - Annonie - Sulphuric actd (purchased from outside) - Phosphoris rook (*) (*) Import lisence is required for phospi VHI. CHARACTERISTICS OF THE INDUSTRY IN T	000 aj 000 i 000 aj 000 aj 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17, 522 223 1,668 - - 71 -	100		37 155 304 38 <u>35,154</u> 157 1,074 648 211	707 - P - H - H - N 4. Buss 707 - T - C 5. Wort 707	POTAL:	Bate managana y nagka y nagka yang yang yang yang yang yang yang yan
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- Liquid fuele and lubricants - See (included is production mat.) () - Steam - Mater 2. Production materials 707AL - Naturel gas - Sulphure - Assonie - Bulphurio astd (purchased from outside) - Phosphoris rook (*) (*) Import licence is required for phosp VIII. CHARACTERISTICS OF THE INDUSTRY IN T (1965) Industry group: Basis industrial chemicals, 1 Ste source for the second for the second for the second form - Annonice (1965) - Ste source for the second form (1965) - Ste source for (1965) -	000 a3 000 1 000 a3 000 a3 000 a3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17,522 223 1,662 - 71 - 71 - 71 -	100 1	.	37 155 304 38 <u>3,154</u> 157 1,074 648 211 1,064 1X. SUPPLE	707 - P - H - N 4. Buss 707 - T - T - T 6. Wor 707 - T 707 - T - T - T - T - T - T - T - T - T - T	POTAL: (*) Physics and general decempony of a er model als & supple- Ar ackagingy spain A merintenance on-factor service inputs ness services purchased At Taneporr, storage & insurance ommunication, advertisements, etc. A performed by sub-conveyors At 	Bate managana y nagka y nagka yang yang yang yang yang yang yang yan
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- Liquid fuele and lubricants - Ges (included is production mmt.) 0 - Steam - Water 2. Production meteriats 7D741 - Maturel gas - Sulphure - Annonie - Sulphurio asti (purchased from outside) - Phosphoris rook (*) (*) Import lisence is required for phospi VIII. CHARACTERISTICS OF THE INDUSTRY IN T (1965) Industry group: <u>Basis industrial chemicals</u> , 1. The groups by	000 a3 000 1 000 a3 100 a3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17,522 223 1,662 - - 70 - 70 - 70 - 70 - 70 - 70 - 70 -	100 s., e ([8 Aw, a grav,	w. wud.	37 155 304 38 <u>3,154</u> 157 1,074 648 211 1,074 648 211 1,064 1X. SUPPLE dtauth Intel by extent	707 - P - H - H - H - H - H - H - H - H	POTAL: (*) Physicolan, hart-fille anglesydd. er muleilais & sulojiw Al ackagingy spain A merintenarine on-factor eervice inpute mess services purchasoj AL mansport, storage & insurance comminication, adventienenste, etc. A performed by sub-conveniors AL <u>withing</u> : h has presitivelly on strete = e.jour	Bar managan ya ngan ya ngan ya ngan ya ngan ya ngan ya ngan ngan ngan ngan ngan ngan ngan ng
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XH. SUPPLEME	ed V. ANNUAL PROPU Atheoives: Olutine celvent-type atheo Phermocriticals: A hermostyptice, van The company produc <u>thermocritical act</u> and fine cheminals <u>History of invests</u> The company was /r could not be taken broch-oven point o <u>Dettilements in the</u> Production could a	iglues, geletics, onl ives, satal adhesize- marchice, enzieptics oregularis, hypostice an alen ive cubetucces (he)on and terremediate pro- ent unded in (i)) Const up before 1941 Sev muid set to surpassen pest and puriest pro-	d petting glues, fi , entigies constens, , postagestavoid pro- ging eachly to the p ducts of the plane for the first time for the first time	in adhesives, nongi anti-mynotics, ant sparstime, X-ray e group of organic-ay s antid, orestiae. va " startnd one year titer ontistige e until "147, ubes n	information, choic ontrast agonte, su mthatic notive cub rions kinds of ent latar, production, nused by var damag alus amounted to []	retice, if onamides, e* andes) erm). however, nn. The B & 2,700,400	
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