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UNITED NATIONS INDUSTRIAL
DEVELOPMENT ORGANIZATION

INTERNATIONAL CENTRE FOR INDUSTRIAL STUDIES

Work Programme for 1976

id.76-964

INTRODUCTION

The 1976 work programme of the International Centre for Industrial Studies has been developed by the staff of the Centre on the basis of the Programme Budget for 1976/1977 (A/C.5/1715/Rev.1); GA resolution 3362 (S-VI), section IV, para.7; GA resolution 3507 (XXX); and IDB resolution 45 (IX), operative para. 6.

The information contained in the project sheets is to facilitate issuance of the Project Allotment Documents (PADs). These sheets were evolved in the course of a number of extensive discussions with the entire staff of the Centre and with the individual Sections, elaborated by special interdisciplinary working teams of Centre staff members, and finalized at a general meeting of all staff members of the Centre.

Before implementation, the officer in charge of each project will develop detailed guidelines to be used by any consultants engaged by the Centre to work on the project.

Teams will be formed to assist the implementation of the projects. In order to facilitate the follow-up of implementation, each project contains a schedule indicating the activity targets to be met at every step. The key to the schedule is as follows:

Meetings

1. Draft provisional annotated agenda and budget prepared
2. Invitations sent to participants
3. Special Service Agreements prepared
4. Papers distributed
5. Meeting held
6. Final report distributed

Studies

11. Draft detailed annotated outline prepared
12. Special Service Agreements prepared
13. First draft report submitted
14. Final report submitted
15. Report distributed

Publications

21. Manuscript submitted to Editorial and Documents Control

AAA

Azmi A. Afifi, Director
International Centre for Industrial Studies

12 February 1976

GLOBAL AND CONCEPTUAL STUDIES SECTION

Project No.: GCS 2

Title: Study on international industrial co-operation

Reference: Resolution 3362 of the U.N. General Assembly at its Seventh Special Session. Project officer: P. Cho

Objectives: The study aims at making full use of the knowledge, experience and capacity already existing in the United Nations system of methods and mechanisms for diversified financial and technical co-operation geared to the special and changing requirements of international industrial co-operation as well as of a general set of guidelines for bilateral industrial co-operation.

Description:

- a. The scope and framework of the study will be elaborated and presented in a draft report;
- b. A meeting of a selected group of ministers of industry, economy and planning will be organized in Vienna to discuss the draft report;
- c. A progress report will be submitted by the Executive Director to the General Assembly at its thirty-first session.

Costing: Meetings - \$ 30,000

Schedule:

	J	F	M	A	M	J	J	A	S	O	N	D
Activity target												
a			13									
b			1 2		5							
c							14					

GLOBAL AND CONCEPTUAL STUDIES SECTION

Project No.: GCS-3

Title: An analytical system for world industrial development forecasting and for monitoring the Lima targets on a continuous basis

Reference: Lima Declaration and Plan of Action, Section V, paras. 65, 66, 67; A/C.5/1715/Rev.1, para. 12.34 (a) Project officer: Y. Cho

Objectives: The objective of this project is to conceive and eventually construct a formalized, computer-based analytical framework depicting the world as a community of independent but interacting economic systems. Such a framework would serve as an efficient tool in predicting and analyzing the political and economic consequences of any major economic policy change contemplated by countries, individually or collectively. The Section's activities under the heading Monitoring Progress towards Implementing the Lima Declaration and Plan of Action will gradually become part of this long-term activity.

Description: The proposed analytical framework - a "UNIDO World Industry Co-operation Model" - will contain all countries and 47 economic sectors. The design and construction of the Model will take several years. A two-pronged approach will be initiated in 1976:

- a. Work will begin on the design of a conceptual framework with the collaboration of several research centres;
- b. Concurrently, in order to obtain some immediate quantitative result of the consequences and implications of the Lima targets using the concept of a World Model, it is proposed to secure access to existing models such as the Bariloche World Model and the UNCTAD World Trade Model.

Costing: Consultants - \$50,000, Subcontracts and computer time - \$100,000

Schedule:

	J	F	M	A	M	J	J	A	S	O	N	D
Activity target			11	12								14*

* Progress report

GLOBAL AND CONCEPTUAL STUDIES SECTION

Project No.: GCS-4

Title: Planning and programming methodology

Reference: A/C.5/1715/Rev.1, para. 12.34 (c) and (e).
Project officer: W. Behrens

Objectives: This project is meant to supplement the developing countries' own efforts in devising industrial policies, strategies and planning through a series of manuals and specific studies. These will be designed to enhance the possibilities of developing countries' obtaining higher benefits from their own industrial investments. In carrying out this project, close links will be established by the Section with successful practitioners and eminent economists, thus creating major bridges to the worlds of industry and university.

Description: Studies which were previously initiated will be continued; thus, in 1976 manuals will be prepared on the following:

- a. The preparation of industrial pre-investment studies;
- b. Multilevel decision-making and planning;
- c. The development of domestic consultancy services.

Additional studies will be conceived, covering significant issues of the development process.

The Section will collaborate closely with other Sections of the I.C.S. in designing concepts for guidelines on related fields.

Costing: consultants - \$18,000

Schedule:

Activity
target

	J	F	M	A	M	J	J	A	S	O	N	D
a		12			13			14 15	21			
b						11 12					13	14
c		11			12					13		14

GLOBAL AND CONCEPTUAL STUDIES SECTION

Project No.: GCS-5

Title: Establishment of a world industrial development association

Reference: Lima Declaration and Plan of Action, para.40 (a), (b) and (c)
Project officer: A. de Faria

Objectives: To carry out a study to examine the possibility of establishing such an association in the short-run future. The study would be geared towards:

- a. Promoting world-wide dialogue on issues of industrialization on a continuous basis;
- b. Ensuring the awareness and wide participation of various sectors of the public in discussing problems of industrialization;
- c. Promoting understanding of the interdependence and inter-linkage between countries' industrial sectors;
- d. Discussing possible co-operation by private sources with developing countries.

Description: This study will determine the reaction of professional and business associations, institutions, multinational corporations, etc. to the establishment of the association. It will also formulate preliminary ideas regarding the statutes of the association.

A meeting of experts will be held in 1976 to examine and advise on the study. The inauguration of the association will take place in 1977.

Costing: consultants - \$10,000, meetings - \$10,000

Schedule:

Activity target

	J	F	M	A	M	J	J	A	S	O	N	D
			11 12			13 1 2	14	15	3 4		5	

GLOBAL AND CONCEPTUAL STUDIES SECTION

Project No.: GCS-6

Title: Better utilization of existing industrial capacities in developing countries

Reference: ID/B/155 Add.1, para. 28 and A/C.5/1715/Rev.1 para.12.34(a)
Project officer: W. Behrens

Objectives: To assist the developing countries to increase their share in industrial world production through the better utilization of available capacities.

Description: Developing countries are frequently faced with the problem that their existing industrial capacities are under-utilized. The reasons for this are (e.g.) related to inefficient management and decision-making, high capital and production costs, and the limited size of domestic markets. A study will be undertaken in a selected country, in conjunction with local institutes, to identify the reasons for capacity under-utilization in order to arrive at conclusions for the formulation of remedial actions at various decision-making levels (plant, branch, economy). A meeting will be convened in the country in order to go over the results of the study and to prepare proposals for policy action.

Costing: Consultants - \$10,000, Meeting - \$5,000

Schedule:

Activity target

J	F	M	A	M	J	J	A	S	O	N	D
			11		12			13			
					1				4		5

GLOBAL AND CONCEPTUAL STUDIES SECTION

Project No.: GCS-8

Title: The community and industrial development

Reference: Lima Declaration and Plan of Action, articles 49,50,51,58 (b),(c) and (d); A/C.5/1715/Rev.1 para.12.35(b).
Project officer: V.A. Richardson

Objectives: To examine the impact of industrialization on Third World societies and to analyse the ways in which the industrialization process alters the values.

Description: This subject will be dealt with initially through the preparation of five studies:

- a. Industrialization, income redistribution. This study will determine the socio-economic characteristics of poor income groups, both rural and urban, and the policies affecting them and assess whether income redistribution would involve a major sacrifice in terms of growth. Practical implications will be drawn regarding policy choice for achieving redistribution with growth.
- b. Target groups and the politico-administrative set-up. This will cover the above-mentioned groups with regard to the decision-making process, within the administrative and political set-up, worker participation and control, and access to education. The result will be to develop concepts of improving participation within the context of the industrialization process through an interdisciplinary approach.
- c. Interrelationship between agro-industry and rural development. This study will analyse the economic, social and cultural impact of agro-industrial projects with a view to improving techniques used in their preparation and planning. Emphasis will be on the impact such projects have had on the social and cultural values of the rural community.
- d. Human capital. This study will determine the extent to which investment in human capital has been a determinant of income differentials between and within countries. The result will be a significant contribution to drawing policy implications which may be taken up in development planning.
- e. A study will examine the impact of the pattern of consumer demand on the development of capital goods industries.

Costing: Consultants - \$20,000

Schedule:

Activity target

	J	F	M	A	M	J	J	A	S	O	N	D
a							11					13*
b							11		12			13*
c									11			13*
d					11		12					14
e					11		12				13*	

* Progress report.

GLOBAL AND CONCEPTUAL STUDIES SECTION

Project No.: GCS-9

Title: Industrial redeployment capability

Reference: A/C.5/1715/Rev. 1, para 12.18 Project officer: H. Muegge

Objectives: To identify industrial enterprises in Australasia, Europe and USA willing to redeploy productive capacities to the developing countries.

Description: Consultants will be entrusted with the task of identifying industrial enterprises in the three geographical areas listed above with a view to establishing the capacities they are willing to redeploy. Redeployment of productive capacity is taken to include not exclusively the physical relocation of plant, but also capital, technology, know-how, as well as managerial and training skills.

This identification process is an essential input into the system of continuing consultations envisaged in the Lima Declaration and Plan of Action (para. 61 (d)), and will be followed by similar consultations with developing countries.

Costing: Consultants - \$ 70,000

Schedule:

Activity
target

J	F	M	A	M	J	J	A	S	O	N	D
11	12	12	12						13	14	15
			13		13		13		13		

INDUSTRIAL INFORMATION SECTION

Project No.:

INF-1

Title:

Industrial Inquiry Service

Reference:

A/C.5/1715/Rev.1, para.12.38
Project officer: Victor Pyrogov.

Objectives:

To provide replies to industrial inquiries from developing countries; to use the information implicit in the inquiries (and in the answers) to support other UNIDO work; to collect, process and make available to national information facilities, as well as to interested units in the ICIS, in advance of specific demand, information for which a potential demand is evident.

Description:

In order to achieve these objectives, the Service will:

- (a) Collect from its Network of Correspondents, and other sources, technological and economic information related to the interests of the ICIS;
- (b) Abstract and advertise information already collected in ICIS publications and the Inquiry Service files;
- (c) Compile surveys, based on the information contained in the inquiries, on development trends, technological needs, investment requirements, etc. of developing countries.

Costing:

Consultants - \$15,000

Schedule:

	J	F	M	A	M	J	J	A	S	O	N	D
Activity target					12	12			14	14		

INDUSTRIAL INFORMATION SECTION

Project No.:

INF-2

Title:

Information through Publications

Reference:

A/C.5/1715/Rev.1, para.12.34(e).
Project officer: Richard Cote.

Objectives:

To disseminate general information about the activities of, and specific technical information from, the ICIS, to a targeted readership from the computerized mailing list.

Description:

The Industrial Research and Development News (IRDN), a glossy publication concentrating on disseminating high-quality articles on industrial research and industrial development, has suffered in recent years from lack of staff and internal resources.

Beginning in 1976, however, it will be reactivated. Each issue will contain 6 commissioned articles. Ten regional "stringers" (part-time technical journalists) will be recruited on a retainer basis to supply articles from their respective regions on significant industrial research and development activities. The "stringers" will be located in Asia (4), Africa (3), Latin America (2) and Middle East (1). In 1977 these 10, plus 5 journalist experts from Europe and North America will gather in Vienna for an editor's roundtable (expert group meeting) aimed at improving IRDN's long-range content, approach and appearance.

During 1976 two issues will be issued. In 1977 it is intended to produce four issues.

The Industrial Information Section will continue to publish the monthly UNIDO Newsletter.

Costing:

Consultants - \$20,000

Schedule:

	J	F	M	A	M	J	J	A	S	O	N	D
Activity target (<u>IRDN</u>)				21		12		14	21		14	

INDUSTRIAL INFORMATION SECTION

Project No.:

INF-3

Title:

UNIDO Guides to Information Sources

Reference:

A/C.5/1715/Rev.1, para.12.34(e)
Project officer: Harold Beyerly

Objectives:

To promote the use of industrial information through the publication of a series of guides to information sources on selected branches of industry considered to be of primary concern to developing countries.

Description:

A serial publication (six to eight per year) with an average of 100 pages per issue. The material is organized under the following main headings: organizations and associations, research institutes, etc.; directories, statistics and other economic data; handbooks, textbooks and manuals; current periodicals; abstracting and indexing journals; specialized dictionaries and encyclopaedias; bibliographies; films; and other potential sources of information. The introduction and explanatory notes are in English, French, Russian and Spanish.

Costing:

Consultants - \$8,000

Schedule:

	J	F	M	A	M	J	J	A	S	O	N	D
Activity target				12	12				14	14		
						21	21	21	21	21	21	21

INDUSTRIAL INFORMATION SECTION

Project No.: INF-4

Title: Library

Reference: A/C.5/1715/Rev.1, para.12.3
Project officer: Harold Beyerly

Objective: To meet the documentation needs of UNIDO.

Description: Procurement and organization for use of books, periodicals, documents, reports and other information material. Dissemination of these materials and information to the staff by reference work, loan, SDI, circulation of periodicals, and issuance of Industrial Development Abstracts and other information lists, both on a regular and an ad hoc basis.

Costing: Consultants - \$12,000

Schedule:

	J	F	M	A	M	J	J	A	S	O	N	D
Activity target			12	12	12						14	

REGIONAL AND COUNTRY STUDIES SECTION

Project No.: R C S-1

Title: Analyses of national targets for industrial growth, in relation to the Lima target

Reference: Lima Declaration and Plan of Action, para. 65 (b).
Project officer: G. Lighthart

Objectives: To analyse development plans and investment proposals in each country for the next 5 - 10 years in the context of the Lima target of a 25 per cent share in world industry production for the developing countries by 2000. These analyses will assist in the process of consultations and negotiations.

Description: Country studies will be prepared showing planned industrial growth up to 1980, with a tentative estimate for 1985. The depth of the analysis will be adapted to the available time. Subsequently, the target values derived from Lima and the planned development for 1980 and 1985 will be compared and conclusions drawn.

Use will be made of UNIDO field experts, regional advisers and consultants. Analyses of reports of other international as well as bilateral aid agencies will also be made and information purchased from various sources.

Costing: Consultants (including purchase of information) - \$ 50,000

Schedule:

Activity
target

J	F	M	A	M	J	J	A	S	O	N	D
	11		12			13	14				

Note: From September onward: Secretariat consolidation
December: Completed

REGIONAL AND COUNTRY STUDIES SECTION

Project No.: R C S-2

Title: Implications of the Lima target and establishment of a framework for long-term strategies of industrial development for the developing countries of Asia (ESCAP and ECWA region)

Reference: Lima Declaration and Plan of Action, para 65 (b)
Project officer: S. Nanjundan (ESCAP region) and
S. Jowhari (ECWA region)

Objectives: While the crash programme (RCS-1) will provide a quick assessment of planned growth up to 1980-85, it is also proposed to carry out in-depth studies of growth possibilities in selected countries of the ESCAP and ECWA region, taking into account development plans, policies, aspirations, investment forecast, etc. The studies will attempt to project growth up to the year 2000 and will thereby assist in the process of consultations and negotiations.

Description: In-depth country studies will be prepared for 10 to 15 selected countries in the ESCAP and ECWA regions to show likely industrial growth up to the year 2000. Subsequently, the target values and the projections for 2000 will be compared and conclusions drawn.

Costing: Consultants - \$ 50,000

Schedule:

Activity
target

J	F	M	A	M	J	J	A	S	O	N	D
			11			12					13

REGIONAL AND COUNTRY STUDIES SECTION

Project No.: R C S-4

Title: Development of an institutional infrastructure for industry

Reference: A/C.5/1715/Rev. 1, para 12.35 (h). Project officer: N. Ramm-
Ericson

Objectives: To study the establishment and operation of the institutional infrastructure for industry in developing countries, particularly the least developed, with a view of accelerating the implementation of the goals of the Lima Declaration and Plan of Action.

Description: The first stage of the two-year project will be an assessment of the implications of the goals and targets of the Lima Declaration for the institutional infrastructure of developing economies, and a field survey of the institutional infrastructure of 10 developing countries. Concurrent with the survey, local institutions in three developing countries will be commissioned with the performance of in-depth studies of the industrial institutional machinery in their countries, based on their own experience in this field.

In the subsequent stage the results of the survey and studies will be analysed with a view to identifying the most appropriate means of strengthening local institutional capabilities and expediting decision-making processes. The dialogue thus initiated will be developed in the course of 1977 and a meeting held to discuss the strengthening and streamlining of institutional infrastructure as a means of furthering industrial development.

Costing: Consultants - \$ 43,500

Schedule:

Activity
target

J	F	M	A	M	J	J	A	S	O	N	D
	11	12					13		14		

REGIONAL AND COUNTRY STUDIES SECTION

Project No.: R C S-5

Title: Concept and project design for industrial estates

Reference: A/C.5/1715/Rev. 1, para 12.34 (b), p. 29. Project officer: S. Nanjundan

Objectives: To develop a concept and project design for the establishment of industrial estates based as much as possible on the use of local resources and related to local social, economic and cultural factors.

Description: In co-operation with SIDA (Sweden) UNIDO has been carrying out an evaluation study on the effectiveness of industrial estates as an instrument of industrial development. Studies in 6 countries have been completed. Similar studies on another 6 countries should be completed by the middle of 1976. Simultaneously, information on experience in selected countries will be collected and analysed.

An expert group meeting will be held in October/November 1976 to discuss the analysis and findings and to formulate recommendations and guidelines. A concept and project design will be finalized in 1977.

Costing: Meeting - \$ 20,000 Consultants - \$ 5,000

Schedule:

Activity target

J	F	M	A	M	J	J	A	S	O	N	D
						14	15	4		5	
				1		2	3				

REGIONAL AND COUNTRY STUDIES SECTION

Project No.: R C S-7

Title: Relationship between stages of industrial processing of certain raw materials and selected industrial policies

Reference: A/C.5/1715/Rev. 1, para 12.35 (d). Project officer: R. Ballance

Objectives: This project will deal with the relationship between the stages of industrial processing of raw materials and selected industrial policies.

Better utilization of domestic natural resources is a major objective of the developing countries which may be realized through increased industrial processing of raw materials by domestic industry. The study will evaluate recent progress made by developing countries in increasing the degree of domestic industrial transformation. It will also focus on possible actions for attaining this objective.

Description: After identifying the present status of both the developing and the developed countries with regard to the extent of industrial natural resource transformation, the study will consider selected problem areas and possible policy actions. Examples of problem and policy matters that may be discussed include trade policies which discourage the developing countries from transforming their natural resources domestically; investment policies in both developed and developing countries; the investments of transnationals that can affect the location of transformation facilities, etc.

Costing: Consultant (and contractual services) - \$ 35,000

Schedule:

Activity target

J	F	M	A	M	J	J	A	S	O	N	D
			11	12						13	

REGIONAL AND COUNTRY STUDIES SECTION

Project No.: RCS-8

Title: Human resources for industrial development

Reference: Lima Declaration, para.53, Plan of Action 65(b)
A/C.5/1715/Rev.1, para. 12.35(g). Project officer: Frans J. Soede

Objectives: If the target of increasing the share of the developing countries in the total world industrial production to at least 25 per cent by the year 2000 is to be achieved, it is necessary to launch an immediate and effective industrial training programme. The types of training activity currently delivered by or through UNIDO, in the form of in-plant group training programmes or individual fellowships for training largely in developed countries and which benefit a relatively small elite of technical and managerial key personnel in developing countries, must be augmented by training on a larger scale in the developing countries themselves.

Description: The following studies will be carried out:

- (a) to make an inventory of non-formal training programmes for industrial development by both private and public agencies in a selected number of developing countries at different levels of industrial development in order to establish the relationship between the priority, quantity and type of training programmes as a function of the level of development;
- (b) to evaluate some existing training programmes based on levy grant financing both in developed and developing countries and to determine their applicability to a selected developing country;
- (c) to study the methods used by the multi-national companies in non-formal training of their manpower, both in developed and in developing countries, and to determine the applicability of these methods to training for large private or public companies in one or two selected developing countries;
- (d) to study to what extent learning by doing in one selected country can be made more efficient by providing UNIDO inputs in addition to the work environment.

Costing: Consultants - \$30,000

Schedule:

	J	F	M	A	M	J	J	A	S	O	N	D
Activity target	a.		11	12					13	14	15	
	b.			11	12					13	14	15
	c.				11				13	14	15	
	d.					11		13			14	15

SECTORAL STUDIES SECTION

Project No.: SS-2
Title: World-wide study of the iron and steel industry
Reference: A/C.5/1715/Rev.1, para 12.36. Project officer: M. Handy

Objectives: To provide the information developing countries need to make decisions on establishing and expanding viable iron and steel industries; to up-date existing information and by relating it to new ideas and concepts, assist in the sound implementation of industrialization decisions in this sector; to serve as a basis for the consultations and negotiations called for by the Lima Declaration and Plan of Action.

Description: Following a comprehensive study of the industry, the investment requirements will be determined for establishing and expanding productive capacities in the developing countries, by stages, up to optimum levels by the year 2000.

Using the findings of the November 1975 Working Group, and the development plans of both developing and industrialized countries, the study will endeavour to determine reasonable forecasts for iron and steel development, taking into account, in particular:

- (a) Problems and opportunities of production;
- (b) Possibilities for redistribution of production;
- (c) Medium and long-term projections for steel consumption, production and trade, in the developing countries;
- (d) Opportunities for joint ventures and co-operation;
- (e) Sources and modes of financing the development of the industry in developing countries;
- (f) Factors determining optimum plant size and location in developing countries;
- (g) Recent technological innovations and their impact on the industry.

A meeting will be held early in 1977 to present the findings of the study to interested governments and individuals. Attempts will be made to reach conclusions regarding the future share of the developing countries in iron and steel production.

Costing: Consultants - \$ 66,000 Sub-contracts - \$ 12,000

Schedule:

Activity target

J	F	M	A	M	J	J	A	S	O	N	D
	11	12						13		14	15

SECTORAL STUDIES SECTION

Project No.: SS-3

Title: World-wide study of the agro-industries sector

Reference: A/C.5/1715/Rev.1, para. 12.36 Project officer: A. Miklovicz

Objectives: To provide the information developing countries need to make decisions on establishing and expanding viable agro-industrial enterprises; to supplement existing information on this sector with new ideas and concepts; to serve as a basis for the consultations and negotiations called for by the Lima Declaration and Plan of Action.

Description: Following a comprehensive study of the industry, investment requirements for establishing and expanding productive capacities in the developing countries, by stages, up to optimum levels by the year 2000 will be determined. The study will concentrate on:

- (a) An analysis of national plans for achieving social and economic development, with special attention to the industrialization of rural areas and the necessity to increase agricultural and industrial production;
- (b) Present and potential production of processed goods, trends of production and markets, and pricing;
- (c) The technological situation in the agro-industries - processing capacities, reduction of losses through improved post-harvest technologies and environmental aspects;
- (d) Effects of agro-industrialization on employment; improved management; links between industry and farming;
- (e) Investment required for enterprises of appropriate capacities.

The Joint UNIDO/Yugoslavia Centre for International Co-operation in the Development of Agro-industries in the Developing Countries will be asked to co-operate in the study and to contribute its experience, particularly with regard to the development of agro-industrial complexes.

A meeting will be held early in 1977 to present the results of the study to interested governments and individuals.

Costing: Consultants - \$ 60,000, Sub-contracts - \$ 25,000

Schedule:

Activity
target

J	F	M	A	M	J	J	A	S	O	N	D
	11	12						13		14	15

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SECTORAL STUDIES SECTION

Project No.: SS-4

Title: World-wide study of the vegetable oils and fats industry

Reference: A/C.5/1715/Rev.1, para. 12.36. Project officer: A. Miklovicz.

Objectives: To provide the information developing countries need to make decisions on establishing and expanding viable industrial enterprises in the oils and fats sector; to supplement existing information on the industry with new ideas and concepts; to serve as a basis for the consultations and negotiations called for by the Lima Declaration and Plan of Action.

Description: Following a comprehensive study of the industry, the investment requirements for establishing and expanding productive capacities in the developing countries, by stages, up to optimum levels by the year 2000 will be determined. The study will focus on:

- (a) The supply and demand of raw materials (with market forecasts, including pricing problems and trends);
- (b) Technological problems and innovations - possibilities for the complex use of raw materials - energy and equipment aspects - management improvement;
- (c) The study of national development plans with respect to investments, specialization, co-operation and financial problems;
- (d) Socio-economic aspects, giving special attention to rural development as a means of increasing output and productivity using indigenous resources;
- (e) Potentiality for increased employment - strengthening of the links between entrepreneurs and farmers;
- (f) Investment considerations.

At a meeting early in 1977 to present the results of the study to interested governments and individuals, attempts will be made to determine the future share of the developing countries in the industrial production of oils and fats.

Costing: Consultants - \$ 25,000 Sub-contracting - \$ 10,000

Schedule:

Activity target

J	F	M	A	M	J	J	A	S	O	N	D
11	12							13	14	15	

DEVELOPMENT AND TRANSFER OF TECHNOLOGY SECTION

Project No.: D T T-1

Title: Joint meeting of heads of research institutions in developing countries and representatives of voluntary organizations engaged in appropriate technology research.

Reference: A/C.5/1715/Rev.1, para. 12.37 (b). Project officer: K. Venkataraman

Objective: To bring together, in accordance with the programme of action on appropriate technology called for by the Second General Conference of UNIDO, representatives of industrial research institutes in developing countries and representatives of voluntary organizations engaged in appropriate technology research with a view to exploring possibilities of the participation of such institutes in a co-operative effort to develop suitable technology for solving problems of a common nature facing many developing countries. The meeting would also discuss the share of every institute in the co-operative research programme sponsored by UNIDO.

Description: Several heads of research institutes in developing countries and a few from voluntary organizations in industrialized and possibly developing countries will be invited to attend the 5 day meeting, to be held in Vienna.

Costing: Meeting - \$ 25,000

Schedule:

Activity target

J	F	M	A	M	J	J	A	S	O	N	D
		1 2	3		4				5	6	

DEVELOPMENT AND TRANSFER OF TECHNOLOGY SECTION

Project No.: D T T-2

Title: Study on role of UNIDO in transfer of technology

Reference: A/C.5/1715/Rev. 1, para 12.37. Project officer: H.A. Janiszewski

Objectives: The long-term objective is to prepare a thorough, analytical forecast of UNIDO's future activities in the field of technology transfer.

Description: The study, which will also cover the Organizations's past activities in this field, will be based primarily on the evaluation and analysis of the various mandates on technology transfer given to UNIDO and, in particular, on the critical analysis of technical assistance programmes. The findings of other UNIDO research programmes will also be reflected in the study.

Schedule:

Activity
target

J	F	M	A	M	J	J	A	S	O	N	D
		11		13	14	15					

DEVELOPMENT AND TRANSFER OF TECHNOLOGY SECTION

Project No.: T T T-3
Title: Study on second-hand textile machinery
Reference: A/C.5/1715/Rev. 1, para. 12.37(d). Project officer:
S. Arghyros
Objectives: To evaluate the potential of second-hand textile machinery for developing countries, particularly with respect to availability, performance standards and cost/benefit.
Description: In order to assess the economic, social and technological parameters affecting the purchase and transfer of such machinery, the following need to be studied:
(a) Markets for second-hand textile machinery and means of transfer;
(b) Technical specifications and condition of equipment available in the light of the needs of the developing countries;
(c) Economic implications of transfer of machinery (royalties, transfer pricing, etc.);
(d) Impact on the national policies and economies of purchasing countries, in terms of employment, tariff protection, productivity of given sectors, etc.

Upon completion of the above, a dialogue will be held with ILO and other UN bodies with a view to preparing an in-depth study on second-hand textile machinery. The terms of reference for the study will be prepared at this time.

Costing: Consultants - \$ 3,000

Schedule:

	J	F	M	A	M	J	J	A	S	O	N	D
Activity target				11		12						

DEVELOPMENT AND TRANSFER OF TECHNOLOGY SECTION

Project No.: D T T-4

Title: Study on methods and equipment for testing and quality control in the textile industry.

Reference: A/C.5/1715/Rev.1, para. 12.37 (d). Project officer: S. Arghyros

Objectives: To provide detailed specifications and cost figures for testing and quality control methods and equipment for the textile industry.

Description: No study on this subject, relevant to the needs of developing countries, exists in the textile literature. Such a study would, however, assist institutions and manufacturing establishments in the developing countries to choose methods and equipment appropriate to their quality control and testing requirements.

Terms of reference for this study have already been prepared and an expert chosen to carry out the tasks. In addition, a sample topic for evaluation and comment has been prepared and has been found to meet fully the requirements. The issuance of the Special Service Agreement and the PAD is pending.

Costing: Consultant - \$5,000

Schedule:

Activity target

J	F	M	A	M	J	J	A	S	O	N	D
	11	12						13		14	15

DEVELOPMENT AND TRANSFER OF TECHNOLOGY SECTION

Project No.: D T T-6

Title: Industrial technological information bank

Reference: General Assembly resolution 3507 (XXX) and A/C.5/1715/Rev.1, para. 12.37 (c). Project officer: E. Aguilar

Objectives: The long-term objective is to increase the flow of industrial information to developing countries to facilitate the proper selection by those countries of the appropriate technologies. The immediate objectives for 1976 are to prepare a feasibility study on the establishment of an industrial technological information bank and to submit a report thereon to the 31st session of the General Assembly through the resumed session of ECOSOC.

Description: Staff members will develop the concept of the project. Consultants will be selected to discuss this concept with the ICIS, collect information from the field, and finalize with staff the feasibility study.

Costing: Consultants - \$ 77,000

Schedule:

Activity
target

J	F	M	A	M	J	J	A	S	O	N	D
							6				

DEVELOPMENT AND TRANSFER OF TECHNOLOGY SECTION

Project No.: D T T-7

Title: Research and development for the textile industry

Reference: A/C.5/1715/Rev. 1, para. 12.37(b). Project officer:
S. Arghyros

Objective: The project will focus on the development of textile products with easy-care, flame-retardant and soil-resistant properties, according to local end-use requirements, with a view to improving the competitiveness of natural materials facing competition from synthetic substitutes, taking into consideration the problems of the cotton textile industries in this respect.

Description: The programme will investigate the appropriateness of specific products and processes on the basis of the following criteria: (a) End-use requirements - consumer acceptance; (b) Product design - establishment of reproducible quality standards; and (c) New process design and modification of existing processes for the manufacturing of specific products as identified by market analysis.

The programme will be carried out over a 2-3 year period. During 1976, a consultation will be held to prepare research proposals for the development of specific end-use properties. Subsequent to the consultation, UNIDO will develop a research programme which will form the basis of further activities in this field.

Costing: Consultants - \$ 22,000

Schedule:

Activity
target

J	F	M	A	M	J	J	A	S	O	N	D
		11 12	13						14		15

DEVELOPMENT AND TRANSFER OF TECHNOLOGY SECTION

Project No.: D T T-8

Title: Research on the development of a rice bran stabilizing unit

Reference: A/C.5/1715/Rev.1, para. 12.37(b). Project officer: W. Tanaka

Objective: To initiate, in co-operation with selected international research and development institutes, a global programme of research and development geared to the design and manufacture of a prototype, low-cost rice bran stabilizer suitable for the use as well as manufacture in the developing countries where rice forms a main factor of food consumption and agro-production output.

Description: An expert group meeting with participants from research and development institutes, from both developing and developed countries, will be held, to develop a plan of action and terms of reference for a joint research and development project to design a suitable prototype rice bran stabilizing unit. The project will be carried out mainly by institutes in the developing countries, with some assistance from experts and institutes from the industrialized countries.

When the unit has been developed, it will be assessed at a review meeting. If it is successful, it will be made available for general use in developing countries. Efforts to promote, install, and operate the unit in the developing countries will be carried out by UNIDO on a long-term basis, extending into 1977 and possibly into 1978.

Costing: Meetings (2) - \$ 15,000
Consultants and subcontracting - \$100,000

Schedule:

	J	F	M	A	M	J	J	A	S	O	N	D
Activity target			1 2	3 4	5	6						

DEVELOPMENT AND TRANSFER OF TECHNOLOGY SECTION

Project No.: D T T-9
Title: Joint UNIDO/LES meeting on the transfer of technology
Reference: A/C.5/1715, para 12.37 Project officer: E. Aguilar
Objective: The objective of this project is to identify and develop mechanisms for the promotion of technology transfer through licensing. The discussions will aim at defining new approaches, such as collective bargaining, for the acquisition of foreign technology by the developing nations.

These efforts will call for adequate planning in the selection, evaluation and negotiation of technology transfer through licensing and will rely on the identification of projects that are of special interest to a group of countries in the developing world.

Accordingly, one of the objectives of the project will be to introduce measures that will help to modify some of the existing corporate policies of the suppliers of technology and to assist in formulating policies that will regulate and promote these transactions.

Description: The representation of the developing countries to this meeting will include government officials and representatives from selected industrial branches. It is scheduled to take place at UN Headquarters in New York in September and will include the participation of 200 licensing executives from the industrialized countries. Consultancy assistance will be secured.

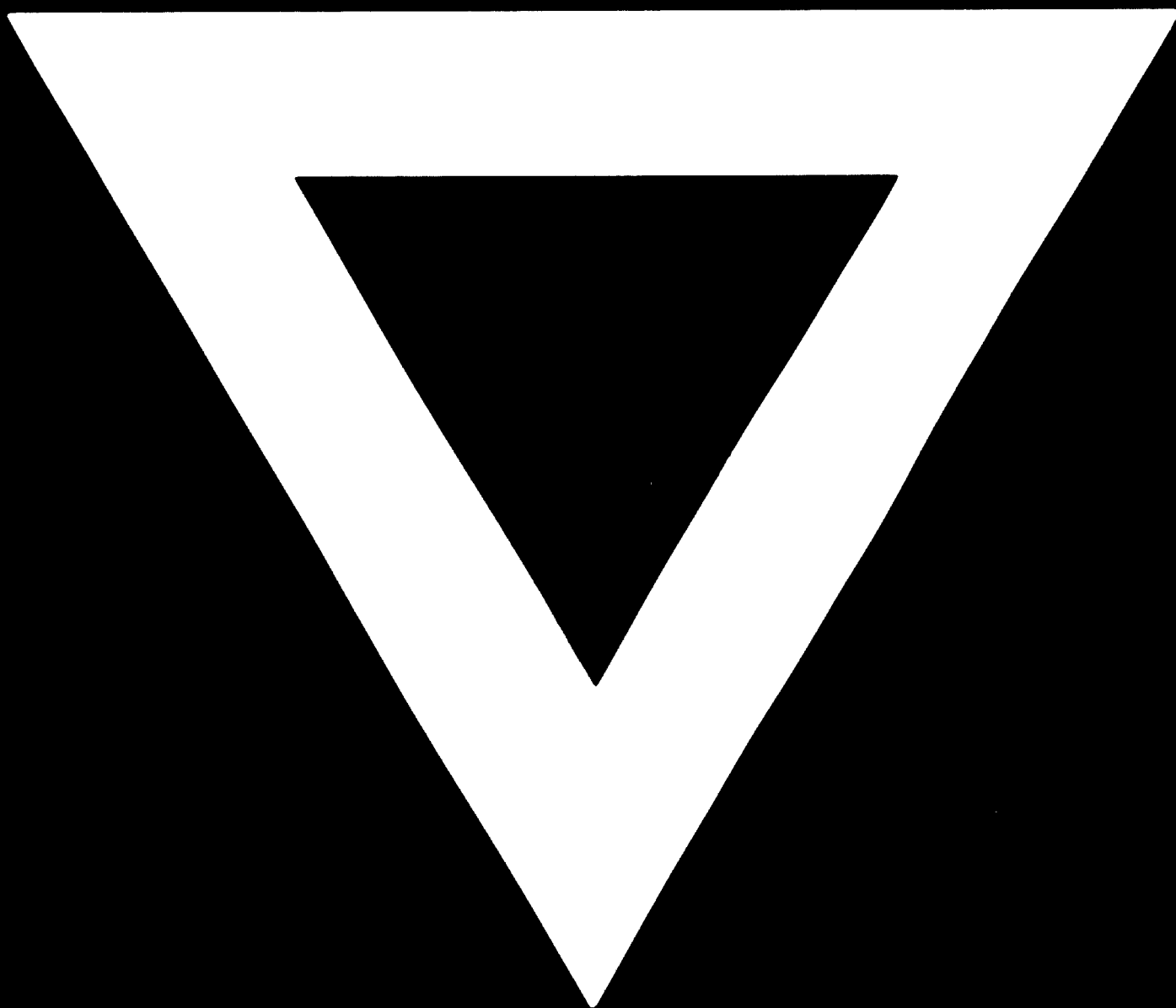
Costing: Consultants - \$ 4,000 Meeting - \$ 21,000

Schedule:

	J	F	M	A	M	J	J	A	S	O	N	D
Activity target		1	2	3	4				5	6		



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