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Agenda item 5(a) and (b)

PROGRAMME OF WORK FOR 1971 INCLUDING REPORT OF ACTIVITIES
FOR 1969 AND UPDATING OF 1970 PROGRAMME

PART TWO

Group 8: Industrial Services and their Administration

5. In the course of consultations held with the regional economic commissions and with UNESCO in connexion with preparation of a directory of industrial and technological research institutes, UNIDO was informed that UNESCO had published Scientific Research in Africa; National Policies, Research Institutions in 1966, and Research Facilities in Science and Technology in Asia, a Preliminary Survey in 1968. UNIDO will co-operate with UNESCO on the updating of these publications. As regards other publications, two studies on industrial research institutes will be published in 1970 and 1971, respectively.

6. Activities planned for 1971 include a working meeting of the international association, a training workshop of managers of industrial research institutes in Asia (originally planned for 1969, ID/B/26, para. 117), and a survey of the performance of industrial research institutes and their contribution to industrial development.

Standardization, quality control and metrology

7. In 1969, most of the operational activities in the field of standardization developed in the Asian region. The total number of experts was fourteen and is expected to reach twenty by 1971. A UNDP/SF project in standardization and metrology, undertaken jointly with UNESCO, was approved by UNDP in June 1969 and has already become operational, and another UNDP/SF project in the same area is expected for early 1970.

8. As regards supporting activities, contacts were established with the regional economic commissions through exchange of information on planned activities in order to improve the co-ordination of the activities in this field.

9. Following the guidelines of the Industrial Development Board, UNIDO initiated active co-operation with ISO and the International Electrotechnical Commission (IEC) which resulted in an agreement between ISO, IEC, UNESCO and UNIDO on the establishment of a development committee (DEVPRO). The purpose of DEVPRO will be to improve the co-ordination of the assistance supplied to the developing countries and to make available to them the sources of ISO through its national member bodies. Participation in this committee is open to other interested agencies.

10. A salient feature of the activities in 1970 is a regional training workshop for personnel engaged in standardization.

11. The supporting activities of UNIDO in 1971 will include a training workshop for senior personnel of national standardization organizations and country studies on regional organizations for standardization, their role and contribution to regional industrial development. A manual on the establishment and organization of national standardization bodies will be prepared. UNIDO will co-operate in these activities with the regional economic commissions.
12. As regards metrology, two experts in metrology and one expert on the application of the metric system were in the field, and it is expected that more than ten experts will be in the field in 1970/1971. A UNDP/SF project was developed in 1969 to be undertaken in co-operation with UNESCO. The UNDP/SF projects for 1970 and 1971, mentioned earlier under standardization, also contain an important metrology component.
13. The supporting activities in 1971 will include a regional training workshop in Africa for personnel from government, central testing laboratories and industry. Establishment of national quality control programmes will be discussed at the workshop. A publication on quality control is also planned.
14. Consultation and co-ordination with UNESCO in the area of metrology will continue as in previous years, particularly in field activities, and an active relationship will be established with the International Organization of Legal Metrology (IOLM) in Paris.

Organization and administration of industrial institutions and services

15. The activities under this heading are aimed at developing and strengthening the services provided to industrial enterprises by private institutions (e.g. chambers of industry, professional associations and industrial co-operatives) as well as by governments, either through their respective ministries or through semi-autonomous institutions such as industrial development institutes. The activities of UNIDO in this sector are undertaken in co-ordination with the relevant United Nations specialized agencies and the Public Administration Division of the Department of Economic and Social Affairs at United Nations Headquarters.
16. Particular emphasis is being placed on the strengthening of industrial services provided by governments through a dynamic programme of technical assistance. Priority in 1969 was given to the work on industrial co-operatives,

in accordance with the emphasis given to these activities by the Industrial Development Board at its third session. With the co-operation of the Institute for the Promotion of Co-operatives in Developing Countries, in the Federal Republic of Germany, a manual on industrial co-operation was prepared in 1969 and will be published in 1971. UNIDO also co-operated in 1969 with the World Federation of Engineering Organizations (WFEO) in undertaking a survey by questionnaire of the role of engineering societies in the industrialization of developing countries and with the United Nations Public Administration Division by participating in the expert meeting on improvement of the performance of public enterprises, held in Yugoslavia. A regional workshop on the organization and administration of industrial services in Asia and the Middle East, planned for 1969 in Tashkent, was re-scheduled for 1970. Two projects that had been envisaged for 1969, namely the international industrial equity capital fund and the international industrial pilot franchising organizations, were cancelled.

17. To date, UNIDO has received few requests for technical assistance in the organization and administration of industrial institutions and services. However, developing countries are becoming increasingly concerned with these problems, and it is expected that more technical assistance requests will be forthcoming in 1970 and 1971.

18. The main aspects of the work of UNIDO in this specific field in 1970 and 1971 will be:

Convening of a second and third regional workshop in the Asian and Latin American regions;

Preparation, in consultation and collaboration with the International Labour Organisation and other specialized agencies, of a report on industrial co-operatives to be presented to the Industrial Development Board at its fifth session, in compliance with resolution 21 (III);

Preparation, including the convening of an expert group meeting, of regional training programmes on industrial co-operatives;

Preparation of a comparative analytical study on the organization and functions of industrial development institutes which will serve as a guidebook to experts and staff of UNIDO providing technical assistance in this field;

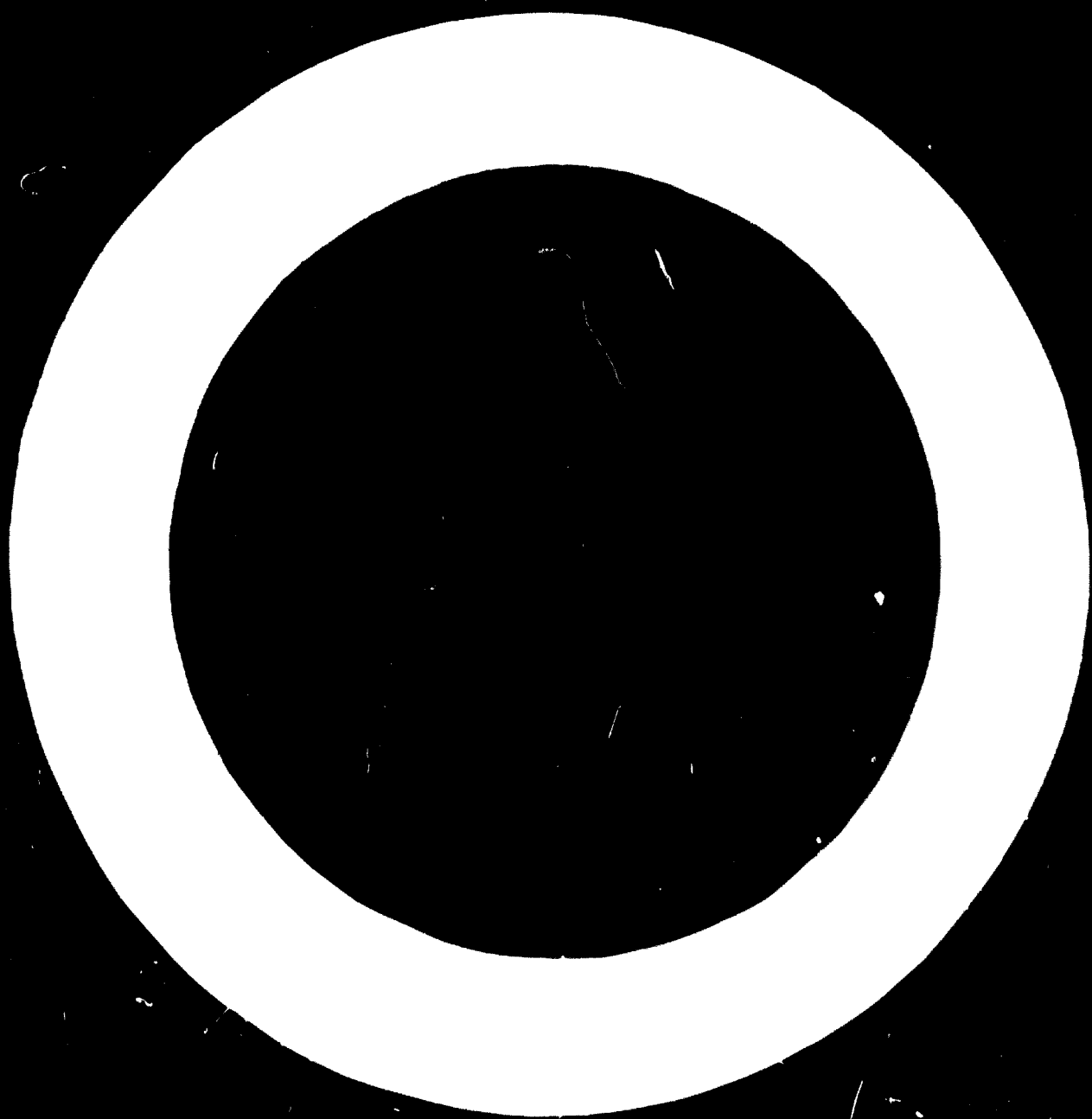
Initiation in 1970 and 1971, in co-operation with the United Nations Public Administration Division, of regional workshops for managers of chambers of industry and government officials.

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Promotion of contacts at fairs and exhibitions

19. In this area, UNIDO seeks to establish contacts between those seeking technical, financial or other types of assistance in both the public and private sectors of industry in developing countries and would be suppliers in industrialized countries. In 1969, these efforts were concentrated in the Budapest International Fair where special Industry Days were organized on an experimental basis. At the Second Asian International Trade Fair in Tehran, October 1969, Industry Days were arranged for building and construction materials, fertilizers, petrochemicals and textile industries. This programme will be continued; it is planned that in 1970 UNIDO will participate in the Osaka World Fair, the Zagreb Fair and possibly other similar events.

20. In 1971, the participation of UNIDO is envisaged in the fairs at Accra (Ghana), Karachi (Pakistan), Izmir (Turkey) and Lima (Peru).



A. OPERATIONAL ACTIVITIESUNDP/SPECIAL FUND - approved projectsProject
numberAFRICALibyaLIB-12 Centre for industrial development and research, Tripoli

Purpose: To assist the Government in establishing a centre for industrial development and research at Tripoli to advise on industrial development. Its activities will be co-ordinated with bilateral and multilateral assistance and with the Centre of Industrial Studies for the Maghreb. The plan of operation is being prepared, and the project manager is under recruitment.

Approved: June 1969

UNDP: \$ 880,200

Duration: 4 years

Gov't: \$5,366,000

SudanSUD-12 Industrial research institute, Khartoum

Purpose: To promote industrial development through the application of industrial research and technology adapted to the country's conditions and resources. The institute, which became operational in April 1965, serves as a local source of information, assistance and advice on processes, standards and efficient techniques of industrial promotion and management. Operations under this project were completed in December 1969, and a second phase project has been initiated.

Approved: June 1963

UNDP: \$ 748,900

Duration: 5 years

Gov't: \$1,404,939

UNDP/SPECIAL FUND -- approved projects (cont'd)

THE AMERICAS

Colombia

COL-30 Institute for Technological Research, Bogotá -- phase II

Purpose: To complete the establishment and strengthen the laboratory facilities of the Institute in order to increase the effectiveness of its assistance to the industrial sector, particularly in fields of potentially rapid growth, such as the food industry, the metallurgical and metalworking industry and the chemical process industries. The project, which became operational in February 1969, is fully staffed and operations are continuing as scheduled.

Approved: January 1968
Duration: 4 years

UNDP: \$ 751,700
Gov't: \$1,003,000

Paraguay

PAR-8 Technical Standards National Institute

Purpose: To assist in the establishment and initial operation of a Technical Standards National Institute which will prepare standards of quality and research methods of quality control, with particular reference to the major export products. The Institute became operational in October 1964; a second phase project is under preparation.

Approved: May 1962
Duration: 5 years

UNDP: \$ 543,900
Gov't: \$ 586,776

Trinidad and Tobago

TRI-5 Caribbean Industrial Research Institute, Port-of-Spain

Purpose: To assist in the establishment of an institute to provide testing and technical advisory services to industry in the Eastern Caribbean region. The plan of operation is being prepared for signature. The project manager began his assignment in October 1969.

Approved: January 1969
Duration: 5 years

UNDP: \$ 640,900
Gov't: \$ 966,000

UNDP/SPECIAL FUND - approved projects (cont'd)Project
numberASIA AND THE
FAR EASTIranIRA-34 Institute of Standards and Industrial Research, Karaj

Purpose: To assist, in association with UNESCO, the Government to establish, equip and assist in the operation of a metrology centre within the Institute of Standards and Industrial Research of Iran at Karaj. The plan of operation is being prepared and a project manager and a consultant are under recruitment.

Approved: June 1969

UNDP: \$ 951,700

Duration: 5 years

Gov't: \$3,182,000

ThailandTHA-16 Technological Research Institute

Purpose: To assist the Government to develop its principal research agency, the Applied Scientific Research Corporation. The work of the Institute is divided into four categories: industrial chemistry (based on utilization of agricultural and other plant products as well as solar energy and industrial effluent control), minerals and metals, construction materials, and fibres and textiles. The project was originally scheduled for completion in 1969, but a limited amount of assistance is being provided through 1971. Counterpart staff members have assumed full responsibility for operations of the Institute.

Approved: January 1964

UNDP: \$ 846,300

Duration: 5 years

Gov't: \$2,167,000

EUROPE AND THE
MIDDLE EASTIsraelISR-11 Industrial research centre

Purpose: To provide assistance in promoting the application of findings of pure research to industrial production as a means of accelerating industrial development. The work of the centre is devoted to food technology, plastics, textiles, fibres and some aspects of inorganic and organic chemistry, primarily significant for potential export industries.

Approved: January 1968

UNDP: \$1,266,500

Duration: 5 years

Gov't: \$9,055,333

UNDP/SPECIAL FUND - approved projects (cont'd)

Table 1

Estimated expenditures for approved UNDP/SF projects, 1969-1971

	1969			1970			1971		
	<u>Experts</u>	<u>Fellows</u>	<u>Other^{a/}</u>	<u>Experts</u>	<u>Fellows</u>	<u>Other^{a/}</u>	<u>Experts</u>	<u>Fellows</u>	<u>Other^{a/}</u>
LIB-12	-	-	-	69,100	17,400	4,100	193,900	17,400	61,700
SUD-12 ^{b/}	116,500	4,200	65,500	-	-	-	-	-	-
COL-30	91,100	10,200	31,300	158,000	23,000	44,400	53,200	35,600	28,700
PAR-8	97,900	17,100	18,900	70,300	-	17,957	-	-	-
TRI-5	6,000	-	-	96,000	11,600	55,800	120,000	11,600	37,200
IRA-34	3,500	-	500	53,750	27,800	117,600	146,200	18,100	227,600
THA-16	112,700	10,000	38,000	8,500	13,600	3,000	-	-	-
ISR-11	<u>106,400</u>	<u>27,200</u>	<u>125,600</u>	<u>208,400</u>	<u>63,000</u>	<u>117,800</u>	<u>84,400</u>	<u>57,900</u>	<u>19,800</u>
Total	534,100	68,700	279,800	664,050	156,400	360,657	597,700	140,600	375,000

a/ Including equipment and subcontracting.

b/ First phase of project completed in 1969.

UNDP/SPECIAL FUND - projects submitted to UNDP for approval

Project
number

AFRICA

Sudan

SUD-41 Industrial Research Institute - phase II

Purpose: To assist the Government in the second phase of the establishment of the Industrial Research Institute at Khartoum. The principle activities of the Institute include: performing tests, analyses, technical investigations, and researches; advising and consulting on industrial planning, process engineering, production management costs and efficiency, quality control and market development; preparing standards specification; making surveys of resources and their utilization; developing technical information services; organizing conferences and seminars on industrial development; co-operating with other bodies in promoting scientific and technological research; advising the Government on scientific and technological problems in relation to development; and making feasibility studies for new industrial products.

Duration: 4 years

Est. UNDP: \$ 816,600

Est. Gov't: \$1,603,000

THE AMERICAS

Paraguay

Technical Standards National Institute - phase II

Purpose: To continue assistance provided under UNDP Special Fund project PAR-8 to the Technical Standards National Institute, Asunción, for another three years. The Institute is now placing increased emphasis on technical aid to industry, and in the proposed second phase, particular attention will be given to the wood industry. Feasibility studies will be undertaken for the food industry, and assistance, in the form of expert services or consultants, will be provided in the fields of textiles, construction equipment and leather.

Duration: 3 years

Est. UNDP: \$678,000

Est. Gov't: \$600,000

UNDP/SPECIAL FUND - projects under preparation

Project
number

AFRICA

Regional centre for standards, applied metrology and instruments

UNDP/TECHNICAL ASSISTANCE - approved projects

Project
number

1969 1970 1971
(in US dollars)

AFRICA

Ethiopia

ETH-68-27	<u>Industrial standardization - preparation of industrial standards and assistance in establishing a national standards institute</u>	expert	1/17 m/m	1,925	24,000	8,000
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Libya

LIB-68-14	<u>Assistance to the industrial research laboratories of the Ministry of Industry</u>	expert	1/12 m/m	-	24,000	-
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ASIA AND THE
FAR EAST

Afghanistan

AFG-68-4	<u>Assistance in introducing the metric system</u>	expert	1/24 m/m	23,100	24,000	-
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UNDP/TECHNICAL ASSISTANCE - approved projects (cont'd)

<u>Project number</u>			<u>1969</u>	<u>1970</u>	<u>1971</u>
			(in US dollars)		
<u>ASIA AND THE FAR EAST (cont'd)</u>					
<u>Indonesia</u>					
INS-68-12	<u>Industrial research - reorganization and co-ordination of the activities of existing research centres</u>				
	expert	1/12 m/m	-	24,000	-
	miscellaneous		-	1,200	-
<u>Thailand</u>					
THA-68-5	<u>Industrial standardization* - assistance to the industrial standardization unit of the department of science</u>				
	expert	1/12 m/m	23,100	-	-
THA-68-7	<u>Economic appraisal of industrial and technological research*</u>				
	expert	1/12 m/m	23,100	-	-
<u>EUROPE AND THE MIDDLE EAST</u>					
<u>Kuwait</u>					
KUW-68-2	<u>Standardization and quality control - elaboration of a system for industrial standards and assistance in drafting legislative instruments</u>				
	expert	1/12 m/m	1,925	22,000	-

UNDP/TECHNICAL ASSISTANCE - approved projects (cont'd)

Table 2

Estimated expenditures for approved UNDP/TA projects, 1969-1971

	1969		1970		1971	
	<u>m/m</u>	<u>US\$</u>	<u>m/m</u>	<u>US\$</u>	<u>m/m</u>	<u>US\$</u>
Experts	6/38	73,150	5/59	118,000	1/4	8,000
Fellows	-	-	-	-	-	-
Other	-	-	-	1,200	-	-
Total		73,150		119,200		8,000

UNDP/TECHNICAL ASSISTANCE - forecast of new projects for 1971

	<u>Experts</u>	<u>Fellows</u>	<u>Other</u>
	<u>m/m</u>	<u>m/m</u>	<u>US\$</u>
<u>AFRICA</u>			
Assistance in the organization of industrial research	3/18	2/12	-
Industrial standardization and quality control including establishment of testing laboratories	3/18	3/18	25,000
Quality control and testing	1/12	1/6	-
Industrial standardization - regional adviser	1/12	-	-

UNDP/TECHNICAL ASSISTANCE - forecast of new projects for 1971 (cont'd)

	<u>Experts</u> <u>m/m</u>	<u>Fellows</u> <u>m/m</u>	<u>Other</u> <u>US\$</u>
<u>THE AMERICAS</u>			
Assistance in standardization and testing	1/12	1/6	-
Applied metrology	1/12	1/6	-
Organization of industrial research	1/12	-	-
Industrial standardization - regional adviser	1/12	-	-
Advice on weights and measures	2/24	-	-
<u>ASIA AND THE FAR EAST</u>			
Assistance in standardization and quality control	1/12	2/12	-
Reorganization of industrial research institutes	1/12	-	-
Advice on standardization	1/12	-	-
Advice on industrial research	1/12	-	-
Quality control and testing	1/12	-	-
<u>EUROPE AND THE MIDDLE EAST</u>			
Advice on industrial research	1/12	-	-
Advice on standardization and quality control	2/24	2/6	-
Industrial standardization and industrial metrology	..	6/18	-

UNIDO REGULAR PROGRAMME - approved projects

<u>Project number</u>			<u>1969</u>	<u>1970</u>
			(in US dollars)	
<u>AFRICA</u>				
<u>Ghana</u>				
RP-08-13	<u>Industrial research* - training</u>			
	fellows	2/12 m/m	6,800	-
<u>Malawi</u>				
RP-08-2	<u>Industrial legislation - standardisation</u>			
	expert	1/6 m/m	-	11,500
<u>Mauritius</u>				
RP-08-25	<u>Industrial standardization*</u>			
	fellow	1/6 m/m	3,400	-
<u>Sudan</u>				
RP-05-5	<u>Industrial standardization - standard specification of industrial products</u>			
	fellow	1/6 m/m	-	3,400
<u>THE AMERICAS</u>				
<u>Brazil</u>				
RP-08-88	<u>Industrial standardisation*</u>			
	expert	1/8 m/m	13,600	-
<u>Regional</u>				
RP-08-5	<u>Industrial research - technical research</u>			
	adviser	1/12 m/m	-	24,500
RP-08-110	<u>Industrial research* - technical research</u>			
	adviser	1/12 m/m	23,600	-

UNIDO REGULAR PROGRAMME - approved projects (cont'd)

<u>Project number</u>			<u>1969</u>	<u>1970</u>
			(in US dollars)	
	<u>ASIA AND THE FAR EAST</u>			
	<u>China</u>			
RP-05-5	<u>Industrial research - management expert</u>	1/6 m/m	-	11,550
RP-08-53	<u>Industrial research* - organization and management</u>			
	fellows	2/10 m/m	6,000	-
	<u>Iran</u>			
RP-08-6	<u>Industrial research - applied industrial research</u>			
	expert	1/5 m/m	-	9,625
RP-08-63	<u>Industrial research</u>			
	adviser	1/10 m/m	19,250	-
	<u>Thailand</u>			
RP-08-141	<u>Industrial standardization*</u>			
	fellow	1/6 m/m	3,400	-
	<u>Republic of Viet-Nam</u>			
RP-08-1	<u>Industrial standardisation - quality control</u>			
	fellow	1/6 m/m	-	3,400
	<u>Regional</u>			
RP-08-80	<u>Industrial standardization*</u>			
	adviser	1/12 m/m	24,000	-

UNIDO REGULAR PROGRAMME - approved projects (cont'd)

Table 3

Estimated expenditures for approved RP projects, 1969-1970

	1969		1970	
	<u>m/m</u>	<u>US\$</u>	<u>m/m</u>	<u>US\$</u>
Experts	4/42	80,450	4/29	57,175
Fellows	5/34	19,600	2/12	6,800
Other	-	-	-	-
Total		100,050		63,975

UNIDO REGULAR PROGRAMME - forecast of new projects for 1971

	<u>Experts</u>	<u>Fellows</u>
	<u>m/m</u>	<u>m/m</u>
<u>AFRICA</u>		
Industrial standardization	1/3	1/6
<u>THE AMERICAS</u>		
Quality control	-	1/6
Regional adviser, technical research	1/12	-
<u>ASIA AND THE FAR EAST</u>		
Quality control	-	2/12
Applied industrial research	1/3	4/24

SPECIAL INDUSTRIAL SERVICES - approved projects

<u>Project number</u>			<u>1969</u>	<u>1970</u>
			(in US dollars)	
<u>AFRICA</u>				
<u>Mali</u>				
68/304 MLI-7	<u>Organization of state-owned enterprises</u> - industrial organization, management and financial accounting	experts	2/6 m/m	- 12,400
<u>THE AMERICAS</u>				
<u>Brazil</u>				
68/264 BRA-11	<u>Assistance to the Commission for Industrial Development*</u> - planning design, mechanical and electrical standards	experts	2/7 m/m	18,400 -
<u>Panama</u>				
69/546 PAN-1	<u>Assistance to the National Laboratory of Standards*</u> - exploratory mission	consulting services		2,000 -
<u>ASIA AND THE FAR EAST</u>				
<u>China</u>				
68/392 CHA-9	<u>Assistance to the Union of Industrial Research Institute</u> - applied industrial research	expert	1/12 m/m	- 23,100
<u>Philippines</u>				
69/478 PHI-7	<u>Assistance to the National Institute of Science and Technology</u> - industrial research and development	expert	1/6 m/m	- 12,000

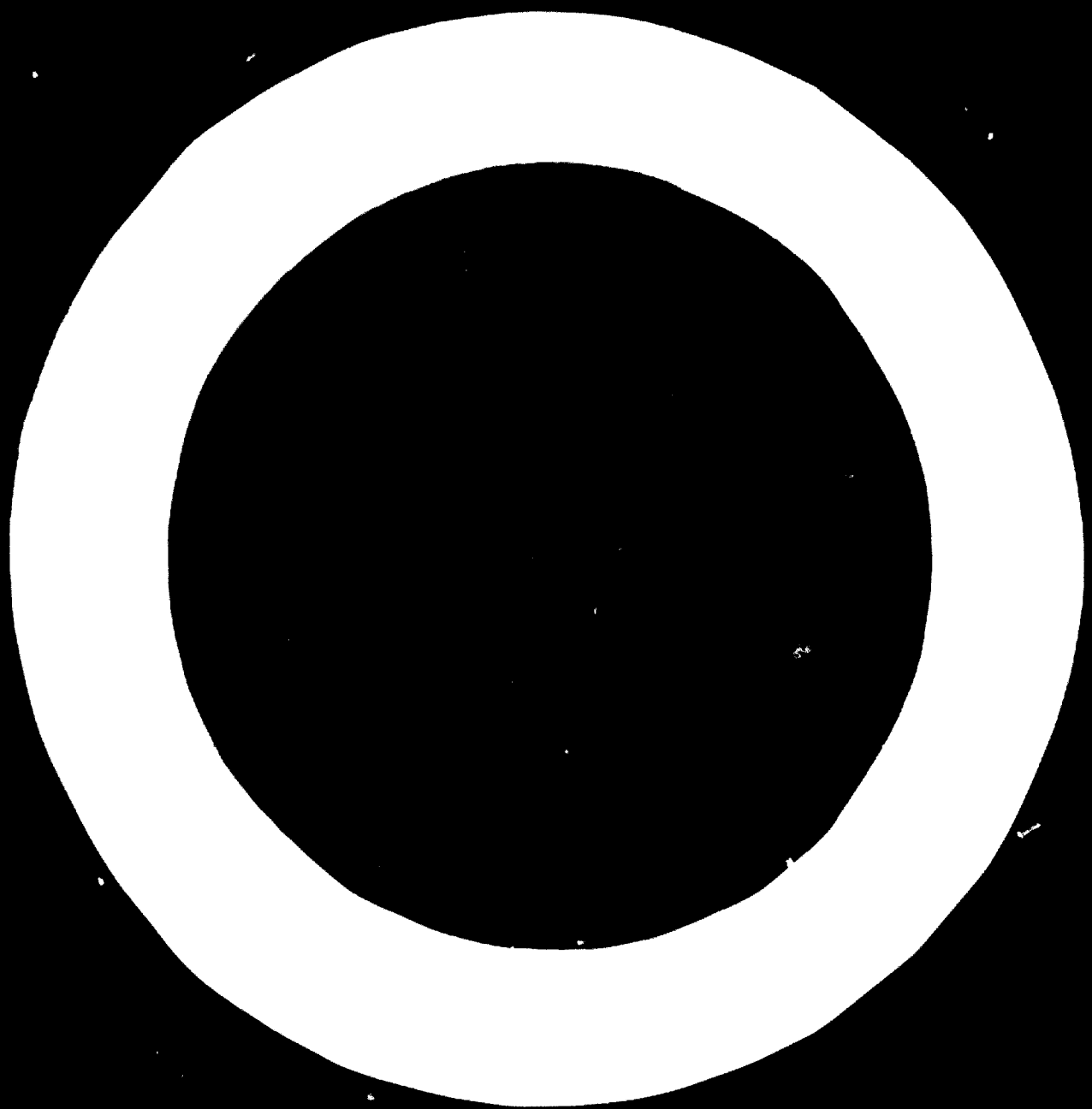
SPECIAL INDUSTRIAL SERVICES - approved projects (cont'd)

<u>Project number</u>		<u>1969</u>	<u>1970</u>
		(in US dollars)	
<u>EUROPE AND THE MIDDLE EAST</u>			
<u>Bulgaria</u>			
68/268 BUL-3	<u>Assistance in the establishment of a packing media scientific research and experimental centre*</u>		
	expert	1/1 m/m	2,500 -
<u>Cyprus</u>			
68/372 CYP-8	<u>Industrial standardization and quality control</u>		
	expert	1/3 m/m	6,200 .-
<u>Hungary</u>			
69/548 HUN-1	<u>Assistance in packaging industry - exploratory mission</u>		
	expert	1/0.5 m/m	2,000 -

Table 4

Estimated expenditures for SIS projects, 1969-1970

	<u>1969</u>		<u>1970</u>	
	<u>m/m</u>	<u>US\$</u>	<u>m/m</u>	<u>US\$</u>
Experts	5/12	29,100	4/24	47,500
Fellows	-	-	-	-
Other	-	2,000	-	-
Total		31,100		47,500



B. SUPPORTING ACTIVITIES

21. The supporting activities for Group 8 are classified under the following projects:

Industrial research	8.01
Standardization, quality control and metrology	8.02
Organization and administration of industrial institutions and services	8.03
Promotion of contacts at fairs and exhibitions	8.04

22. As was mentioned in the prefatory remarks to the section on supporting activities in Part One (ID/B/64), the objective of the supporting activities is to establish a two-way flow of information and experience between the supporting activities at headquarters and the field. A great deal of material on which headquarters' studies and meetings are based is derived from information received from the field. In turn, the studies and meetings are intended to improve the substantive support given by headquarters to the field operations. In many cases these results are fed directly to the field in the form of reports. In all cases, they constitute an accumulation of knowledge and experience on which both headquarters and field staff are able to draw in response to the needs arising in the technical assistance operations.

Industrial research (8.01)

International association of industrial research institutes (8.01.01)

23. An expert group meeting, held in Vienna in May 1969 (ID/B/26, para. 116), worked out a proposal and draft constitution for the establishment of an international association which would include industrial research institutes as well as national and regional bodies financing or promoting research. The draft report of the meeting was widely circulated for comments. It is planned to convene in October 1970 a conference of founding members to adopt the statutes and bylaws and elect their secretariat and officials. A meeting of the association to elaborate a work programme and budget is to be convened in 1971. In this project UNIDO will draw as much as possible on the experience of UNESCO which co-operated in the establishment of WFEO.

			<u>Priority A</u>
	<u>Staff</u> (in m/m)	<u>Meetings</u> (US\$)	<u>Consultants</u> (US\$)
1969	3	4,634	300
1970	6	16,000	-
1971	10	12,000 ^{a/}	3,000

^{a/} From the General Trust Fund of UNIDO.

Management of industrial research institutes (8.01.02)

24. In July 1967 an interregional meeting was held in Athens for managers of industrial research institutes in developing countries. It recommended that biennial meetings be held for exchange of experience among directors, senior administrators and research personnel. Such a meeting was planned for 1969 (ID/B/26, para. 117), but was later cancelled due to a rearrangement of priorities. It is now planned to organize a series of regional meetings, starting with Asia in 1971.

25. A manual on financial management and project selection for use by managers of research institutes was completed in 1969. A manual on guidelines for evaluation of industrial research institutes in developing countries will be published in 1971; it will provide criteria for the evaluation of the performance of industrial research institutes and suggest ways and means to improve their operations.

			<u>Priority A</u>
	<u>Staff</u> (in m/m)	<u>Meetings</u> (US\$)	
1969	2	-	
1970	3	-	
1971	6	10,000	

Evaluation of industrial research in developing countries (8.01.03)

26. A proposed meeting on evaluation of industrial research institutes and their contribution to industrial development (ID/B/44, para. 203) cannot be held in 1970 owing to lack of funds. The evaluation activity is planned

from 1971 onwards in the form of either actual case studies from developing countries or studies based on the experience in the planning and development of industrial research in advanced countries.

27. Subject to availability of funds, two studies are planned for 1971; the first will cover the allocation of national resources for industrial research in developing countries, the financing of research institutes and their performance; the second will concern itself with the adaptation of certain technologies for the needs of developing countries. These studies are to be undertaken with the assistance of consultants and will be published in subsequent years.

Priority B

	<u>Staff (in m/m)</u>	<u>Consultants (US\$)</u>
1969	-	-
1970	-	-
1971	4	6,000

Standardization, quality control and metrology (8.02)

Training of personnel engaged in standardization (8.02.01)

28. A conference on standardization in the developing countries was held in Moscow in June 1967 on the occasion of the ISO General Assembly. In 1969, UNIDO continued to co-operate with the regional economic commissions through participation of the regional advisers on standardization in meetings and seminars.

29. A regional training workshop for personnel engaged in standardization will be held in Addis Ababa in 1970. Both ECA and ISO assured UNIDO of their active participation in this workshop.

30. In 1971, it is planned to organize a similar workshop in Latin America, with the participation of ECLA, the Pan-American Commission for Technical Standards (COPANT) and ISO. Workshops will be held in subsequent years in Asia, North Africa and the Middle East and in West and Central Africa. An interregional meeting would then be held on the occasion of the triennial meeting of the General Assembly of ISO, planned for 1973.

Priority A

	<u>Staff (in m/m)</u>	<u>Meetings (US\$)</u>
1969	-	-
1970	4	11,000 ^{a/}
1971	6	20,000 ^{a/}

a/ UNDP/TA funds.

Establishment of standards organizations (8.02.02)

31. Many countries have established national standardization bodies, and lately there has also been a trend towards establishing, with UN assistance, regional bodies for standardization. To assist these organizations, a manual will be prepared for publication on the organization and administration of national standardization bodies, detailing the steps to be undertaken for their initiation, operation and administration, promotion of results, follow-up of implementation of standards and financial and other requirements.

Priority A

	<u>Staff (in m/m)</u>	<u>Consultants (US\$)</u>
1969	-	-
1970	-	-
1971	3	3,000

32. Subject to availability of funds, country studies will be prepared on the experience in regional standardization and on the organizations created for promotion of standardization and their contribution to industrial development. These studies will deal with the activities of such organizations (including training, co-ordination of national standardization and regional co-operation) and analyse various schemes for their establishment and operation.

Priority B

	<u>Staff (in m/m)</u>	<u>Consultants (US\$)</u>
1969	-	-
1970	-	-
1971	6	12,000 ^{a/}

a/ UNDP/TA funds.

Training in quality control (8.02.03)

33. It is planned to organize a training workshop for personnel responsible for quality control in government, in central testing laboratories and in industry. At the workshop, the elements of quality control (concept, criteria, sampling, testing, reproducibility and reporting) and the proper organizational schemes will be discussed. The workshop will be organized on an annual basis and will be initiated in 1971 in Africa.

Priority A

	<u>Staff (in m/m)</u>	<u>Meetings (US\$)</u>
1969	-	-
1970	-	-
1971	6	20,000 ^{a/}

a/ UNDP/TA funds.

Quality control in selected industries (8.02.04)

34. Concurrently with the workshop to be organized in Africa, a publication is envisaged on quality control which would cover industries existing in, or of interest to, developing countries and the required quality control tests for raw materials, materials in process and finished products. It is intended to co-ordinate this activity with the multinational and international organizations active in this field.

Priority A

	<u>Staff (in m/m)</u>	<u>Consultants (US\$)</u>
1969	-	-
1970	-	-
1971	6	12,000 ^{a/}

a/ \$8,000 from the General Trust Fund of UNIDO.

Training workshop on metrology (8.02.05)

35. While all developing countries have bureaux of weights and measures, their operations vary greatly in effectiveness owing to poor organization and to the lack of both trained personnel and laboratory facilities.

36. The training workshop, to be held in Africa in 1971, will cover the introduction and application of the metric system, the relation of metrology to industry and standards, and testing and calibration. The situation in the countries of Asia will also be discussed. Co-operation is planned with UNESCO and ECAFE. Similar meetings are planned for other regions in subsequent years.

Priority A

	<u>Staff (in m/m)</u>	<u>Meetings (US\$)</u>
1969	-	-
1970	-	-
1971	6	20,000 ^{a/}

a/ UNDP/TA funds.

**Metrology: its role, requirements and application
in developing countries (8.02.06)**

37. Subject to availability of funds, a study will be undertaken in 1971 of calibration and measuring equipment used in industry and technology, of the necessary human and financial resources, and of the role of applied metrology in developing countries as a means for unification of testing. The experience of developed countries and the situation in developing countries at various stages of development will be described.

Priority B

	<u>Staff (in m/m)</u>	<u>Consultants (US\$)</u>
1969	-	-
1970	-	-
1971	2	3,000

**Organization and administration of industrial institutions
and services (8.03)**

38. This project includes supporting activities such as regional workshops on organization and administration of industrial services and assistance to specific institutions and services, including industrial co-operatives, industrial development institutes and industrial consulting services.

Regional workshops on the organization and administration
of industrial services (8.03.01)

39. In the latter part of 1967, UNIDO organized, in co-operation with the African Training and Research Centre in Administration for Development (CAFPRAD), a seminar on the organization of industrial services in Africa. In 1970 a similar workshop for Asia and the Middle East, originally planned for 1969, will be held (in co-operation with ECAFE and UNESOB) in Tashkent, Union of Soviet Socialist Republics. The report of this workshop will be published in 1971. A similar workshop is planned for 1971 in Latin America.

Priority A

	<u>Staff (in m/m)</u>	<u>Meetings (US\$)</u>
1969	-	-
1970	7	48,000 ^{a/}
1971	7	25,000 ^{b/}

a/ \$23,000 from UNDP/TA funds and \$25,000 from the General Trust Fund of UNIDO.

b/ UNDP/TA funds.

Industrial co-operatives (8.03.02)

40. The technical meeting on industrial co-operatives, convened in New York in 1967, made a number of recommendations that have been the basis of the UNIDO programme of work in this area. Preparation of a manual on industrial co-operatives was finalized in 1969, and the manual will be published in 1971. At its third session the Industrial Development Board requested the Executive Director in resolution 21 (III) to prepare a report on the role of co-operatives in the industrial development of individual countries. In implementation of this resolution, a number of country case studies of both developed and developing countries will be undertaken for 1970 in co-operation with ILO and the International Co-operative Alliance (ICA), and a report based on these studies will then be presented to the Industrial Development Board at its fifth session in 1971. It is envisaged that the manual on industrial co-operatives, as well as the country case studies and the report to the Industrial Development Board, will be used at the regional training workshops expected to be organized from 1972 onwards. An expert group meeting will be convened in 1971 to provide guidelines for preparing a training programme for these workshops.

			<u>Priority A</u>
	<u>Staff (in m/m)</u>	<u>Meetings (US\$)</u>	<u>Consultants (US\$)</u>
1969	4	-	4,000
1970	12	-	12,000
1971	5	6,000	-

Regional workshops for managerial staff of
chambers of industry (8.03.03)

41. A workshop will be conducted in 1970 by UNIDO, in co-operation with ECA and AFRASEC, for managerial staff of chambers of industry of English-speaking countries in Africa. The workshop is designed as a forum for the exchange of experience to provide guidelines for the further development of UNIDO activities in this field. A similar workshop for French-speaking countries in Africa is expected to be organized in 1971.

			<u>Priority A</u>
	<u>Staff (in m/m)</u>	<u>Meetings (US\$)</u>	
1969	-	-	
1970	6	10,000	
1971	6	13,000 ^{a/}	

a/ UNDP/TA funds.

Regional training workshops for industrial administrators (8.03.04)

42. These training workshops are planned to be organized as a follow-up of the recommendations of the interregional working party on the subject, organized jointly in 1965 by the United Nations Centre of Industrial Development (now UNIDO) and OECD. Subject to availability of funds, a training workshop for government administrators concerned with industrial development in the Middle East and North Africa is planned to be convened in 1971 by UNIDO in co-operation with UNESOB and the Public Administration Division at United Nations Headquarters. The workshop will focus on modern public administration methods and techniques as applied to the organization and management of industrial development programmes and projects. Similar training workshops planned for 1969 and 1970 could not be undertaken due to lack of funds.

Priority B

	<u>Staff (in m/m)</u>	<u>Meetings (US\$)</u>
1969	-	-
1970	-	-
1971	8	35,000 ^{a/}

a/ UNDP/TA funds.

Promotional activities in co-operation with
professional associations (8.03.05)

43. A survey was undertaken in 1969, in co-operation with the World Federation of Engineering Organizations (WFEO), on the role of national engineering associations in industrial development. This activity will be followed up in 1970 from UNIDO headquarters with the aim of relating the activities of the national engineering associations to the technical assistance programmes of UNIDO. It is planned to enlarge the scope of this activity in 1971 so as to include other professional associations.

Priority A

	<u>Staff (in m/m)</u>	<u>Consultants (US\$)</u>
1969	1	-
1970	3	-
1971	3	10,000 ^{a/}

a/ From the General Trust Fund of UNIDO.

Promotion of contacts at fairs and exhibitions (8.04)

Industrial promotion services at trade fairs (8.04.01)

44. During 1969, UNIDO organized industrial promotion activities at the International Fair in Budapest and at the Second Asian International Trade Fair in Tehran. Industry Days have been organized at these fairs, where projects of interest to developing countries and potential investors have been identified and discussed. It is anticipated that similar promotion activities will be organized in 1970 and 1971 during several trade fairs in

developing and industrialized countries. On these occasions, the needs of particular industries of developing countries with regard to know-how, management, financing, equipment etc. will be matched with possible sources of supply in the developed countries, both market economies and centrally planned economies.

Priority A

	<u>Staff</u> <u>(in m/m)</u>	<u>Consultants</u> <u>(US\$)</u>
1969 ^{a/}	-	-
1970	6	28,000 ^{b/}
1971	18	55,000 ^{c/}

a/ For 1969, see component 9.03.05 under Group 9 (ID/B/64/Add.9).

b/ \$20,000 from the General Trust Fund of UNIDO.

c/ \$30,000 from the General Trust Fund of UNIDO.

PRINTED PUBLICATIONS

	<u>Languages</u>	<u>Cost (US\$)</u>
<u>1970 publications programme</u>		
ID/30 Functions and organization of industrial research institutes	E F S	_____
		2,500
 <u>Forecast of 1971 publications programme</u>		
Manual on industrial co-operatives	E	
Directory of research institutes	E	
Guidelines for evaluation of industrial research institutes in developing countries	E F S	_____
		6,700

Note: In the computation of the printing costs a standard formula was applied based on averaging the cost of printing inside UNIDO and by an outside firm. The standard formula is used to provide for comparability of the cost of printing.

Table 5
Expenditures for supporting activities in 1969^{a/}

Project components	UNIDO Regular Budget				UNDP/TA	UNIDO General Trust Fund	Total ^{b/}
	(1) Staff m/m	(2) Meetings US\$	(3) Consultants US\$	(4) Publications US\$	(5) US\$	(6) US\$	(7) US\$
8-01-01	3	4,634	300		-	-	4,934
8-01-02	2	-	-		-	-	-
8-03-02	4	-	4,000		-	-	4,000
8-03-05	1	-			-	-	
Total	10	4,634	4,300	-	-	-	8,934

^{a/} Expenditures have been calculated on the basis of actual expenditures up to 30 September 1969, projected to the end of the year.

^{b/} The totals in column 7 do not include the cost of publications. Thus the total of the items in this column does not correspond to the last line of the column.

Table 6

Estimated expenditures for supporting activities in 1970

Project components	UNIDO Regular Budget				UNDP/TA	UNIDO General Trust Fund	Total ^{a/}
	(i) Staff m/m	(2) Meetings US\$	(3) Consultants US\$	(4) Publications US\$			
Priority A							
8-01-01	6	16,000	-		-	-	16,000
8-01-02	3	-	-		-	-	-
8-02-01	4	-	-		11,000	-	11,000
8-03-01	7	-	-		23,000	25,000	48,000
8-03-02	12	-	12,000		-	-	12,000
8-03-03	6	-	-		10,000	-	10,000
8-03-05	3	-	-		-	-	-
8-04-01	6	-	8,000		-	20,000	28,000
Total	47	16,000	20,000	2,500	44,000	45,000	127,500

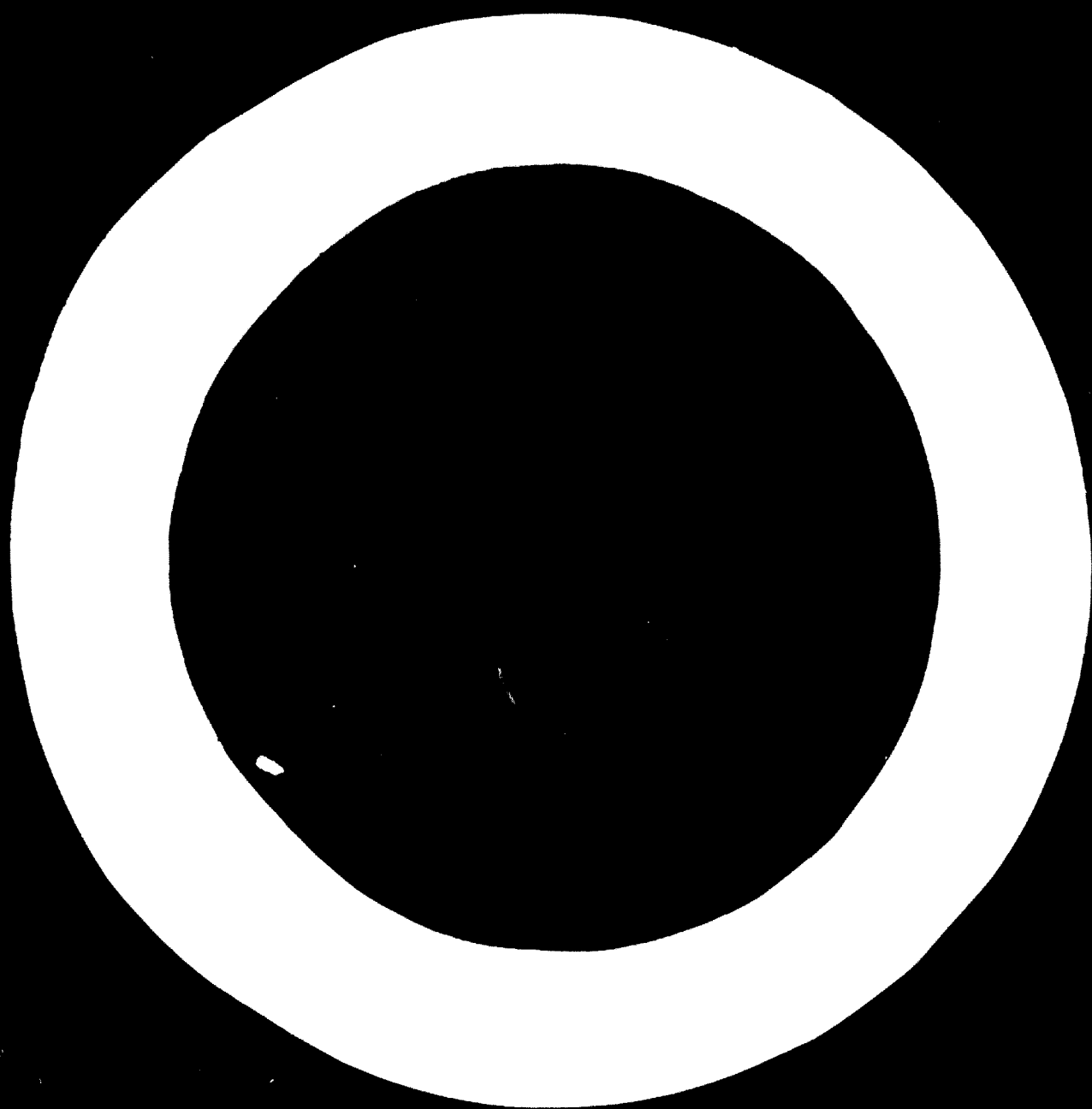
^{a/} The totals in column 7 do not include the cost of publications. Thus the total of the items in this column does not correspond to the last line of the column.

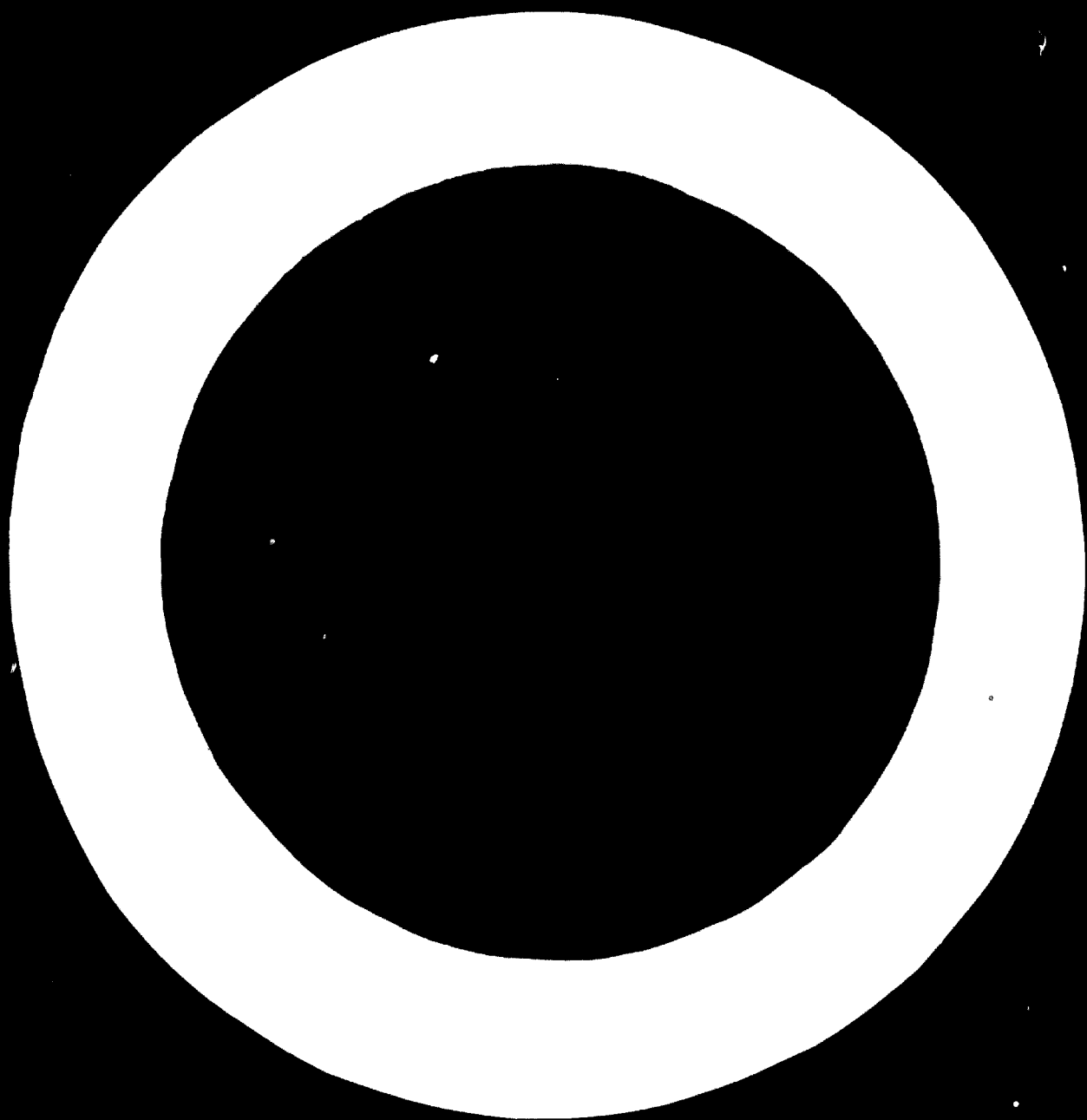
Table 7

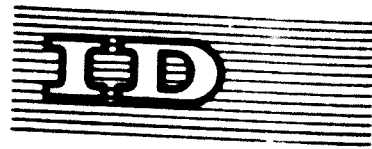
Estimated expenditures for supporting activities in 1971

Project components	UNIDO Regular Budget				UNDP/TA	UNIDO General Trust Fund	Total ^{a/}
	(1) Staff m/m	(2) Meetings US\$	(3) Consultants US\$	(4) Publications US\$	(5) US\$	(6) US\$	(7) US\$
Priority A							
8-01-01	10	-	3,000		-	12,000	15,000
8-01-02	6	10,000	-		-	-	10,000
8-02-01	6	-	-		20,000	-	20,000
8-02-02	3	-	3,000		-	-	3,000
8-02-03	6	-	-		20,000	-	20,000
8-02-04	6	-	4,000		-	8,000	12,000
8-02-05	6	-	-		20,000	-	20,000
8-03-01	7	-	-		25,000	-	25,000
8-03-02	5	6,000	-		-	-	6,000
8-03-03	6	-	-		13,000	-	13,000
8-03-05	3	-	-		-	10,000	10,000
8-04-01	18	-	25,000		-	30,000	55,000
Total	82	16,000	35,000	6,700	98,000	60,000	215,700
Priority B							
8-01-03	4	-	6,000		-	-	6,000
8-02-02	6	-	-		12,000	-	12,000
8-02-06	2	-	3,000		-	-	3,000
8-03-04	8	-	-		35,000	-	35,000
Total	20	-	9,000	-	47,000	-	56,000

^{a/} The totals in column 7 do not include the cost of publications. Thus the total of the items in this column does not correspond to the last line of the column.







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Agenda item 5(a) and (b)

PROGRAMME OF WORK FOR 1971 INCLUDING REPORT OF ACTIVITIES
FOR 1969 AND UPDATING OF 1970 PROGRAMME

PART TWO

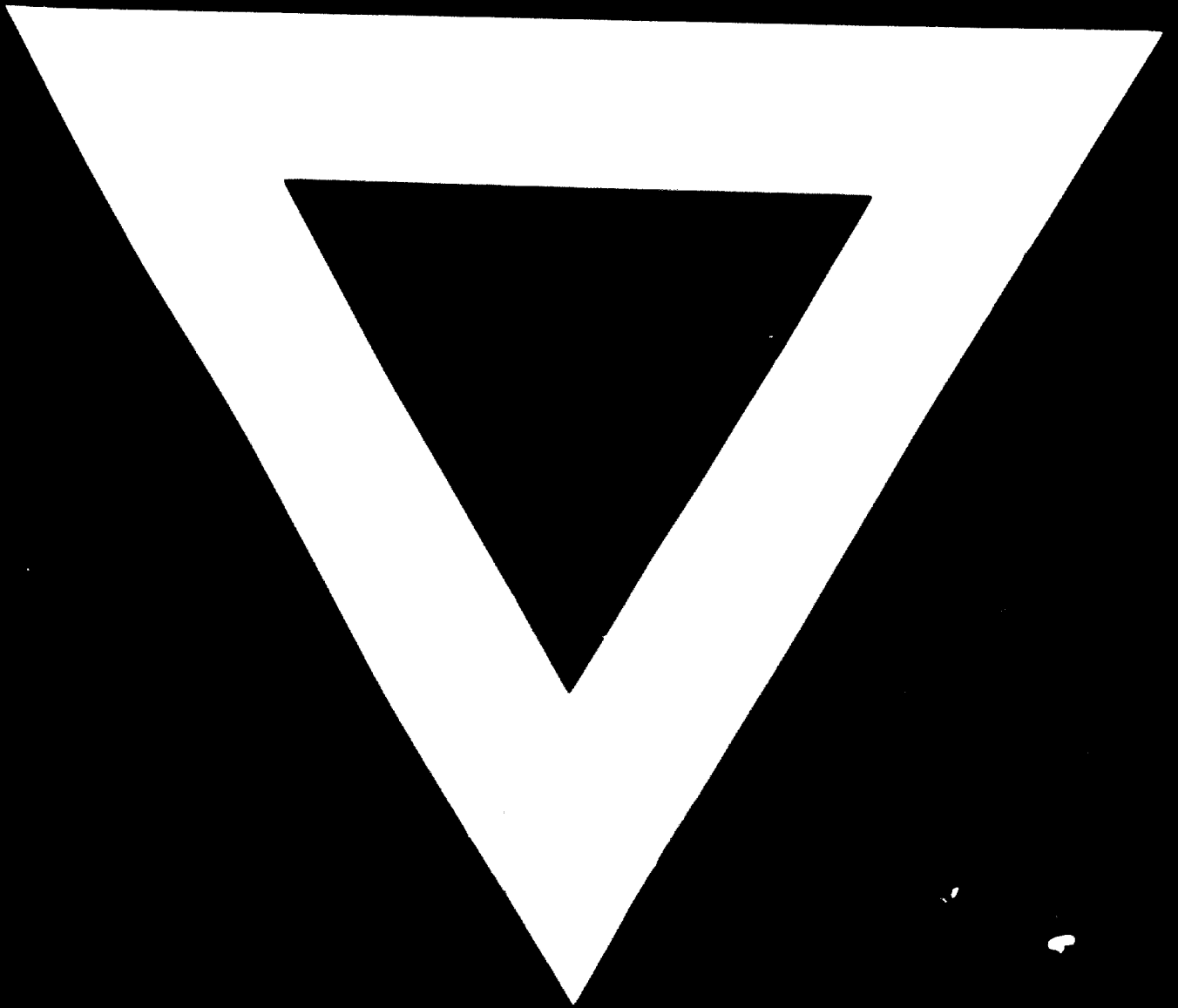
Group 8: Industrial Services and their Administration

Corrigendum

Page 30, para. 36, first line

Change to read as follows: "The training workshop, to be held in
Asia in 1971, ..."





1. 4. 74