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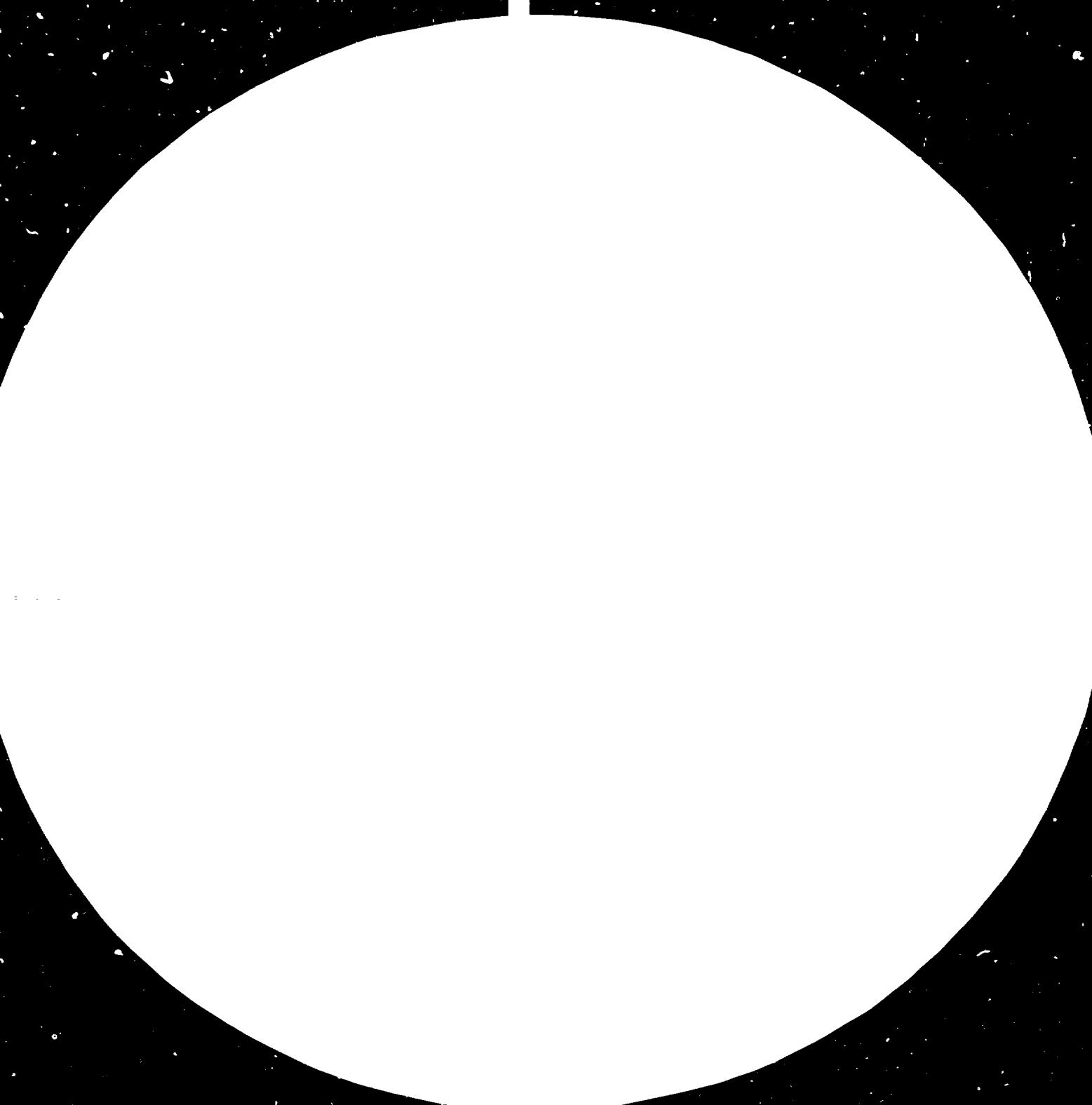
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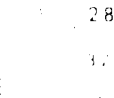
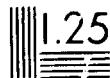
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UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION

Distr.
LIMITED
UNIDC/IS.199
22 January 1981
ENGLISH

WORK PROGRAMME
UNIDO
TECHNOLOGY PROGRAMME

Development and Transfer of Technology Branch (for 1980 – 1981)
Industrial Information Section (for 1981)

000572

INTRODUCTION

The Work Programme of the UNIDO Technology Programme for 1980-81 is presented in the following pages. While a greater portion of the activities listed for 1980 are already under implementation, the purpose of this presentation is to provide a conspectus of the Programme's activities and its essential thrust for the guidance of the members of the UNIDO Technology Programme, for the information of others and as a basis for the internal management and future planning of the UNIDO Technology Programme. Activities being implemented and proposed under the Regular Budget and the UNIDF, as well as UNDP and other funding, are presented.

In the nature of things, the Work Programme is indicative. It is so intended in order to retain the necessary dynamism and flexibility to maximize the contribution of the UNIDO Technology Programme to the development and transfer of technology for the benefit of the developing countries. The resource requirements of activities proposed under the Regular Budget are somewhat higher than the resources presently available to the UNIDO Technology Programme. Activities for 1981, under UNIDF, UNDP and other funding are necessarily tentative, subject to acceptance for funding by the appropriate authorities. The realization of the full potential of the Work Programme is thus dependent on the staff and the financial resources made available.

A substantial number of activities in the Work Programme will be implemented in co-operation with other parts of UNIDO or with relevant United Nations or other international organizations, as the case may be.

Any new activity listed will be undertaken, or additions to the Work Programme made, in consultation with me.



G. S. Couri
Senior Technical Adviser
in charge of the UNIDO Technology Programme

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DEVELOPMENT AND TRANSFER OF TECHNOLOGY SECTION: RESOURCE REQUIREMENTS

	1980				1981				1980-81			
	RB	UNIDF	UNDP + OTHERS	TOTAL	RB	UNIDF	UNDP + OTHERS	TOTAL	RB	UNIDF	UNDP + OTHERS	TOTAL
1. Technology Policies and Plans	155	25	50	230	210	400	520	1 130	365	425	570	1 360
2. Costs and Conditions of Acquisition of Technology	23	117	-	140	25	60	84	169	48	177	84	309
3. Identification and Evaluation of Alternative Technologies	21	93	50	164	5	-	50	55	26	93	100	219
4. Technology Research and Development and Adaptation	48	70	-	118	23	50	-*	73	71	120	-	191
5. Development of Technological Capabilities	81	325	198	604	115	305	-	420	196	630	190	1 024
6. Technological Advisory Services	-	50	-	50	-	50	-	50	-	100	-	100
7. Follow-up of Forum on Appropriate Industrial Technology*	60	67	75	202	20	25	75	120	80	92	150	322
	388	747	373	1 508	398	890	729	2 017	786	1 637	1 102	3 525

* This is in addition to AT activities included in other sections of the Work Programme.

Title: 1. TECHNOLOGY POLICIES AND PLANS

Objective: To stimulate action by developing countries at the national level for the adoption of technology policies and plans by sensitizing them on the issues involved; providing the necessary conceptual and methodological basis for national action; and assisting specific developing countries, on request, to make an in-depth examination of their technological needs and the means of fulfilling those needs.

Description
and 1980/81
Work Plan:

In 1980:

- (a) Three countries will be assisted through expert missions and/or meetings by examination at the national level of their current policies and the feasibility of their adopting integrated technology policies and plans (a national seminar in the Dominican Republic has already been held);
- (b) A study of the technology policy and planning experience of the Republic of Korea will be completed;
- (c) Work will be initiated for a compilation of national technology policies and plans of selected developing countries, with an analytical survey of the state-of-the-art;
- (d) The Government of the United Republic of Cameroon will be assisted in developing a technology policy and programme;
- (e) The Government of Nigeria will be assisted in establishing a national centre for technology transfer;
- (f) The Government of China will be assisted in regard to policies for acquisition of technology;
- (g) A publication on disaggregation of technology in the petrochemical field will be prepared in English; work will be initiated for publications on:
 - (i) General guidelines on the modalities and policies of disaggregation of technology, and
 - (ii) Disaggregation of technology in the fertilizer industry;
- (h) As preparation for an International Forum on Technological Advances to be held subsequently, in order to sensitize policymakers of developing countries to the implications of technological advances, work will be initiated on a survey and assessment of emerging technological breakthroughs and their implications for developing countries in six selected sectors, namely machine tools, petrochemicals, micro-electronics, biotechnology and two other sectors;

- (i) A study will be conducted on the implications for industrial technology of the follow-up of the recommendations of the United Nations Law of the Sea Conference, in order to develop a programme of action;
- (j) Studies on the future of genetic engineering and its implications for developing countries will be initiated as preparatory work for an international symposium on this subject;
- (k) A study will be conducted on the implications of the United Nations Commission on International Trade Law (UNCITRAL) for the transfer of industrial technology;
- (l) National level studies will be conducted on the patterns, conditions, institutional and policy aspects of exports of technology in two selected developing countries, namely Argentina and Portugal;
- (m) Work will be initiated for a publication on "Industrial Technology for the 1980s: Problems and Prospects".

In 1981:

- (a) Three more countries will be assisted through expert missions and/or meetings by examination at the national level of their current policies and the feasibility of their adopting integrated technology policies and plans;
- (b) The technology policy experience of two more developing countries will be studied and published;
- (c) A compilation of national technology plans of selected developing countries will be studied and published;
- (d) —
- (e) Assistance to the Government of Nigeria in establishing a centre for technology transfer will be completed;
- (f) —
- (g) Publications on general guidelines for disaggregation of technology and another on disaggregation of technology in the petrochemical and fertilizer industries will be issued;
- (h) The survey and assessment of emerging technological breakthroughs in the six selected areas will be completed and reviewed by the Consultative Group on Appropriate Industrial Technology for further work to be undertaken and for eventual presentation to an International Forum on Technological Advances;
- (i) The study concerning the Law of the Sea will be completed; a survey of existing and emerging industrial technologies for exploitation of marine resources by developing countries will be made and the work integrated into the preparatory work for an International Forum on Technological Advances;

- (j) An International Symposium on the future of genetic engineering and its implications for developing countries will be held to sensitize policymakers of developing countries and to draw up action programmes to strengthen the capabilities of developing countries in this field;
- (k) —
- (l) Field-level studies of technology exports of three more developing countries will be made, resulting in a publication on the developing countries' experience in this regard;
- (m) The publication "Industrial Technology for the 1980s: Problems and Prospects" will be sent to press;
- (n) An expert group meeting on the development of guidelines for technology policies and plans will be held;
- (o) A publication on technology policies of selected developing countries will be issued.

Costing:
(S'000)

1980	RB Consultants Meetings	UNDPF	UNDP and others
(a)	30		
(b)	5		
(c)	5		
(d)			50
(e)			-
(f)		25	
(g)	5		
(h)	60		
(i)	5		
(j)	30		
(k)	staff resources		
(l)	10		
(m)	5		
	<hr/>		
	155	25	50

<u>Costing:</u> (S'000)	1981	RB Consultants Meetings	UNDPF	UNDP and others
(a)		45		
(b)		-		
(c)		5		
(d)		-		
(e)				520
(f)		-		
(g)		15		
(h)		60		
(i)		15		
(j)			400	
(k)		-		
(l)		20		
(m)		10		
(n)		30		
(o)		10		
Total:		210	400	520
Total 1980-1981:		365	425	570

Title: 2. COSTS AND CONDITIONS OF ACQUISITION OF TECHNOLOGY

Objective: To assist developing countries to improve the terms and conditions on which they acquire technology, in particular by strengthening their negotiating capabilities and facilitating greater flow of information and co-operation among developing countries in this regard.

Description
and 1980/81
Work Plan:

In 1980:

- (a) A meeting of senior officials of technology transfer registries will be held to draw up programmes of co-operation and exchange of information among developing countries;
- (b) The TIES system will be expanded through increased participation and greater frequency of reporting;
- (c) Six issues of the TIES Newsletter will be published;
- (d) Training workshops in the negotiation of technology contracts will be held in China, Portugal, Thailand and at TECH-Transfair '80, in the Netherlands.
- (e) Work will be initiated in the preparation of a training manual together with training material for negotiation of technology contracts;
- (f) Case studies on technology transfer conducted by the International Federation of Institutes of Advanced Study will be presented and analysed and the general conclusions and recommendations reviewed by the meeting of senior officials of technology transfer registries;
- (g) Work will be initiated for a publication of case studies on acquisition of technology at the plant level;
- (h) Work will be initiated for a publication on "The Organization of Technology Transfer Registries".

In 1981

- (a) A programme of co-operation among technology transfer registries of developing countries will be implemented;
- (b) Further expansion of the TIES system will be undertaken, as appropriate;
- (c) Six issues of the TIES Newsletter will be published;
- (d) Six training workshops in negotiation of technology contracts will be held in selected developing countries;
- (e) A training manual on the negotiation of technology contracts will be published;
- (f) --
- (g) A compilation of case studies in the acquisition of technology at the plant level will be published;

- (h) A publication on The Organization of Technology Transfer Registries will be issued;
- (i) "Guidelines for Evaluation of Technology Transfer Contracts" will be published in English, French and Spanish.

Costing:
(\$'000)

<u>1980</u>	RB Consultants Meetings	UNIDF	UNDP and others
(a)		50	
(b)	staff resources		
(c)	staff resources		
(d)		57	
(e)	5		
(f)	8		
(g)	5		
(h)	5		
Total:	23	117	
<u>1981</u>	RB Consultants Meetings	UNIDF	UNDP and others
(a)			84
(b)	staff resources		
(c)	staff resources		
(d)		60	
(e)	15		
(f)	-		
(g)	10		
(h)	-		
(i)			
Total:	25	60	84
Total 1980-1981	48	177	84

Title: 3. IDENTIFICATION AND EVALUATION OF ALTERNATIVE TECHNOLOGIES

Objective: To identify and evaluate alternative technologies suitable to developing countries, to disseminate the results and to promote the application of such technologies.

Description
and 1980/81
Work Plan:

In 1980:

- (a) Work will be continued, in co-operation with ILO, for the preparation of eight technical memoranda in selected sectors;
- (b) The third volume of "Technologies from Developing Countries" will be compiled;
- (c) Selected alternative technologies in food processing industries in India and Thailand will be compiled;
- (d) A profile of a Metal Production Development Units with special reference to least developed countries will be prepared and disseminated;
- (e) A study tour-cum-workshop on mini-hydro generating units will be held with special reference to China and the Philippines;
- (f) A manual on mini-hydro generating units will be compiled;
- (g) Work will be continued in the further development and dissemination of the "Portfolio of Wood Processing Technologies" and selected metal-transforming technologies;
- (h) A techno-economic study on the establishment of a pilot plant for bio conversion of cellulosic materials to ethanol will be initiated;
- (i) Work will be initiated for a publication on alternative technologies in the use of aluminium with special reference to the Hungarian experience;

In 1981:

- (a) Eight technical memoranda will be published, in co-operation with ILO;
- (b) The third volume of "Technologies from Developing Countries" will be published and the compilation of a fourth one taken up;
- (c) Selected alternative technologies in food processing in India and Thailand will be published;
- (d) -
- (e) Follow-up action on the meeting on mini-hydro units will be taken, as necessary;
- (f) The "Manual on Mini-Hydro Generating Units" will be published and disseminated to developing countries;

- (g) Work on the "Portfolio of Wood Processing Technologies" and on metal transforming technologies will be continued.
- (h) The techno-economic study on the establishment of a pilot plant for bio conversion of cellulosic materials to ethanol will be completed and a project prepared for the establishment of a pilot plant;
- (i) A publication on alternative technologies in the use of aluminium will be brought out;
- (j) Work on profiles of alternative technologies for the several operations involved in door-making will be initiated.

Costing: (\$'000)	1980	RB Consultants Meetings	UNIDF	UNDP and others
	(a)		ILO/SIDA funds	
(b)		5		
(c)		2		
(d)		14		
(e)			15	
(f)			78	
(g)		staff resources		
(h)				50*
(i)		staff resources		
Total:		21	93	50
	1981	RB Consultants Meetings	UNIDF	UNDP and others
(a)		ILO/SIDA funds		
(b)		5		
(c)		-		
(d)		-		
(e)		-		
(f)		-		
(g)		-		
(h)				50*
(i)		-		
(j)		-		
Total:		5		50
Total 1980-1981		26	93	100

*(A total of US\$150,000 of which US\$50,000 will be met from other sources.)

Title: 4. TECHNOLOGY RESEARCH AND DEVELOPMENT AND ADAPTATION

Project
Officers:

To promote research and development and adaptation through strengthening industrial research and service institutions, fostering co-operation among them and facilitating pilot plant and commercialization activities for technologies appropriate to developing countries.

Description
and 1980/81
Work Plan:

1980:

- (a) A joint meeting with WAITRO will be organized for identification of co-operative research projects between participating research institutes from developed and developing countries;
- (b) A compilation on research institutes offering co-operation in research and development together with the areas of their specialization will be prepared and issued;
- (c) An information system for exchange of information in selected sectors on R and D programmes of research institutes in developing countries will be introduced;
- (d) Work will be initiated on the identification and promotion of co-operative research programmes between IPT of Brazil and institutions in selected developing countries in the region;
- (e) Co-operative arrangements between KIST, TISTR and ITT of Colombia will be initiated on low-cost, high-nutrition foods;
- (f) The programme of sponsoring research at graduate level in universities will be continued;
- (g) Work will be initiated towards the implementation and maintenance of a portfolio of R and D projects in selected sectors;
- (h) Follow-up action will be taken on the joint UNIDO/UNDP evaluation of IRSIs;
- (i) A seminar will be held jointly with ESCAP on technology transfer in the leather industry in the ESCAP region, and a survey made of selected Asian countries and of the potential for technological co-operation in the region;
- (j) A study will be conducted on the methods of and facilities for analysis and testing of bauxite ores;

In 1981

- (a) Co-operative research projects identified as a result of the joint UNIDO/WAITRO meeting will be promoted through preparation of detailed project proposals and identification of sources of finance;
- (b) A compilation of research institutes offering co-operation in R and D will be maintained and updated;
- (c) The information system for exchange of information on R and D programmes will be continued and updated;
- (d) A meeting will be held to promote co-operative research programmes between IPT of Brazil and institutions in selected developing countries;
- (e) —
- (f) The programme of sponsoring research at graduate level in universities will be continued and the progress of the programme evaluated;
- (g) Work on detailed project proposals arising from the portfolio of R and D projects will be initiated keeping in view the interest of participating institutions and potential donors and funding agencies;
- (h) Follow-up work on the joint UNIDO/UNDP evaluation of IRSIs will be continued;
- (i) —
- (j) The study on the analysis and testing of bauxite ores will be completed and taken up for publication;
- (k) A meeting of Heads of selected R and D institutions in developing countries and appropriate technology organizations will be held with reference to selected industrial sectors in order to identify R and D projects of common concern;
- (l) Work on the pilot production of ethanol through bio conversion of cellulosic raw materials will be initiated; Follow-up of 3(h)

Costing:
(\$'000)

1980	RB Consultants Meetings	UNIDF	UNDP and others
(a)		70	
(b)	3		
(c)	staff resources		
(d)	-		
(e)	-		
(f)	5		
(g)	5		
(h)	10		
(i)	25		
(j)	-		
Total:	48	70	

<u>1981</u>	RB Consultants Meetings	UNIDF	UNDP and others
(a)	-		
(b)	-		
(c)	-		
(d)		25	
(e)	-		
(f)	5		
(g)	-		
(h)	10		
(i)	-		
(j)	8		
(k)		25	
(l)			*
Total	23	50	*
Total 1980-1981	71	120	*

*Anticipated figure for the project is \$12 million.

Title: 5. DEVELOPMENT OF TECHNOLOGICAL CAPABILITIES

Objective: To promote the development of technological capabilities in developing countries through a variety of actions with reference to field conditions and specific areas and with particular emphasis on the strengthening of existing institutions and promotion of interlinkages.

Description
and 1980/81
Work Plan:

In 1980:

- (a) Sixteen technological monographs on the institutional infrastructure for technological development in selected developing countries will be published;
- (b) Work will be initiated for the compilation of an inventory of African manpower and institutions in selected sectors;
- (c) A desk study of the technological infrastructure in least developed countries will be carried out;
- (d) A basic model for a national centre of technology transfer will be elaborated;
- (e) Studies on the identification and feasibility of regional centres of excellence will be initiated in three selected sectors;
- (f) The project in the Philippines on the Technology Services Delivery System will be reviewed and disseminated and the lines of further action identified;
- (g) Project proposals for a programme of a technological services delivery system will be elaborated for the Dominican Republic and Jamaica;
- (h) A high-level mission to Japan will be undertaken for identifying the possible role of Japan in strengthening the technological capabilities of developing countries;
- (i) On the occasion of the All-African Trade Fair, a Joint Symposium will be held with OAU to operationalize the Lagos Plan of Action in the field of industrial technology with particular reference to the African Industrial Development Decade;
- (j) The International Fair on Technology for the People will be supported in regard to the participation by developing countries in the exhibition and the technical congress of the fair;
- (k) The scope of UNIDO participation in the Technology Fair to be held in Colombo in 1981 will be delineated;
- (l) Small industry co-operation between selected least developed countries and the State of Karnataka in India will be promoted;

- (m) A project will be initiated on small industry co-operation between selected developing countries and China;
- (n) A project on small industry co-operation between selected developing countries and Sweden in specific sectors will be initiated;
- (o) The role of small industry co-operation in transfer of technology will be promoted through participation in and assistance to the World Assembly of Small and Medium Enterprises;
- (p) Work will be initiated for the introduction of a small industry information exchange system;
- (q) A meeting will be held jointly with ECLA and selected national focal points in the ECLA region to promote technological co-operation;
- (r) Detailed project proposals will be prepared for joint implementation with the African Regional Centre for Technology, with reference inter alia to rural development and training;
- (s) Assistance will be given to programmes of ESCAP, RCTT;
- (t) A programme of assistance to Mongolia in setting up a technology development centre will be drawn up;
- (u) A programme of strengthening the capabilities of developing countries in the field of informatics will be drawn up.

In 1981:

- (a) In addition to the publication of sixteen technological monographs, work will be initiated on the updating of the monographs, preparing monographs for more developing countries and the identification of gaps in institutional infrastructure;
- (b) Work will be continued on the compilation of an inventory of African manpower and institutions in selected sectors, in co-operation with ECA;
- (c) Based on the basic study of the technological infrastructure in least developed countries, a programme of action at the national level for selected least developed countries in Africa will be initiated;
- (d) Guidelines on a basic model for national centres of technology transfer will be developed and published;
- (e) The studies on the establishment of centres of excellence in three selected sectors will be completed and detailed project proposals prepared;
- (f) Based on the Philippines experience, a model of a Technology Services Delivery System will be elaborated;

- (g) Subject to availability of resources, the programmes for the Technology Services Delivery System will be implemented in the Dominican Republic and Jamaica;
- (h) —
- (i) Follow-up action arising from the Joint UNIDO/OAU Symposium on Technology Transfer during the All-African Trade Fair will be initiated;
- (j) —
- (k) Participation in the Technology Fair in Colombo;
- (l) Follow-up action arising from the Bangalore Meeting in 1980 will be undertaken;
- (m) A meeting to promote small industry co-operation between selected developing countries and China will be held;
- (n) The programme of promotion of small industry co-operation between selected developing countries and Sweden will be continued;
- (o) —
- (p) The Small Industry Information Exchange System will be continued;
- (q) Follow-up action on the Meeting of National Focal Points in the ECLA region will be undertaken;
- (r) Selected joint programmes with the ARCT will be implemented;
- (s) Assistance to programmes of ESCAP, RCTT;
- (t) Follow-up on the programme of assistance to Mongolia as per Government request;
- (u) An action programme in informatics will be initiated with special reference to industrial and technological development;
- (v) A Meeting of National Focal Points for the Arab Region will be held;
- (w) An interregional meeting of the Heads of sub-regional and regional centres for transfer of technology will be held in order to exchange experience and to develop further programmes of co-operation with UNIDO.

Costing:
(S'000)

1980	RB Consultants Meetings	UNIDF	UNDP and others
(a)		15	
(b)	staff resources		
(c)	5		
(d)		40	
(e)	10		
(f)		25	
(g)	3		
(h)	13		
(i)		90	
(j)			100
(k)	5		
(l)			98*
(m)	-		
(n)		80	
(o)		50	
(p)	5		
(q)		25	
(r)	10		
(s)	15		
(t)	-		
(u)	15		
Total:	81	325	198

*RP and ECDC fund

1981	RB Consultants Meetings	UNIDF	UNDP and others
(a)	5		
(b)	10		
(c)	15		
(d)	-		
(e)	20		
(f)	-		
(g)	-		
(h)	-		
(i)	-		
(j)	-		
(k)	-		
(l)	15		
(m)		50	
(n)		180	
(o)	-		
(p)	staff resources		
(q)	10		
(r)	10		
(s)	15		
(t)	-	25	
(u)	15		
(v)		25	
(w)		25	
Total:	115	305	
Total 1980-1981	196	630	198

Title: 6. TECHNOLOGICAL ADVISORY SERVICES

Objective: To provide at the request of Governments, information, consultation and advisory services to developing countries at the time of the negotiation of technology contracts and related arrangements for large projects. These services will be provided on a short-term basis even at short notice, by staff members with the help of specialized outside consultants, as needed.

Description and 1980/81 Work Plan: In 1980:
(a) Advisory services will be rendered to six developing countries (including China, the Dominican Republic, Egypt and the Philippines).

In 1981:
(a) Advisory services are expected to be rendered to eight countries.

<u>Costing:</u> (S'000)	1980	RB Consultants Meetings	UNIDF	UNDP and others
(a)			50*	
Total:			50	
	<u>1981</u>	RB Consultants Meetings	UNIDF	UNDP and others
(a)			50*	
Total:			50	
Total 1980-1981			100	

*Special allocation.

Title: 7. FOLLOW-UP OF THE INTERNATIONAL FORUM ON APPROPRIATE INDUSTRIAL TECHNOLOGY

Objective: To systematically follow up, subject to availability of resources, as many recommendations of the Forum as possible through specific projects. Activities under this heading together with the relevant activities in other sections of the work programme and in UNIDO as a whole will constitute UNIDO's continuing co-operative programme of action on appropriate industrial technology.

Description and 1980/81 Work Plan:

In 1980:

- (a) A meeting of the Consultative Group on Appropriate Industrial Technology will be held to review follow-up activities and recommend lines of further action;
- (b) Detailed proposals will be elaborated with the help of expert advice for R and D in twelve subject areas of the Forum (e.g. Profile of an improved small-scale multipurpose plant to manufacture drugs and pharmaceuticals; Co-operative programmes in the Caribbean region for promotion of technologies for the utilization of sugar-cane; Development of an improved textile finishing machine for use in the traditional sector; Development of scaled-down machines for spinning; Improvements in brickmaking technologies; Development of small-scale rice bran stabilizer; Surveys of indigenous fermentation and food preservation processes in selected developing countries; Drawings and designs bank for appropriate agricultural machinery; State-of-the-art survey and a programme of R and D in the design and manufacture of pedal-powered vehicles; Profiles of small-scale industries; and Directory of technologies for basic drugs and their manufacture in developing countries);
- (c) Work on a guide to low-cost transport vehicles for rural communities in developing countries will be initiated;
- (d) Nine monographs in the appropriate industrial technology series will be published (agricultural machinery and implements, textiles, food storage and processing, sugar, oils and fats, drugs and pharmaceuticals, light industries and rural workshops, construction and building materials and basic industries).

In 1981:

- (a) A meeting of the Consultative Group on Appropriate Industrial Technology will be held to review the implications of emerging technological breakthroughs for developing countries;
- (b) The work of preparation of project proposals in the selected subject areas will be completed and action for promoting R and D, including identification of sources of finance, implementation agencies etc. will be initiated;

(c) Work on the guide to low-cost transport vehicles for rural communities in developing countries will be completed.

<u>Costing:</u> <u>(\$'000)</u>	1980	RB Consultants Meetings	UNIDF	UNDP and others
(a)		10	25	
(b)				50
(c)				25
(d)		50	42	
Total:		60	67	75
<hr/>				
	1981	RB Consultants Meetings	UNIDF	UNDP and others
(a)		20	25	
(b)				50
(c)				25
Total:		20	25	75
<hr/>				
Total 1980/81		80	92	150

Industrial Information Section: Resource requirements 1981

(\$'000)

	RB	UNIDF	UNDP + OTHERS	COMPUTER, MAILING + PRINTING CHARGES	TOTAL
1. INTIB - Generation of technological information, including establishment of networking system for INTIB	60				60
2. INTIB - Identification of and establishment of linkages with and among INTIB clients	50 (meetings)	75			125
3. Information dissemination by INTIB	85			10 (mailing +computer)	95
4. Development of industrial information sources	35			52 (computer)	87
5. Dissemination of general industrial information	-			50 (mailing +printing)	50
6. Publications relating to industrial and technological information for developing countries	5	14		12 (computer, printing and mailing)	31
	235	89		124	448

Project Title:

1. INTIB - Generation of technological information, including establishment of networking system for INTIB

Objectives:

To generate specific technological information in the area of concern to the pre-investment choice of technology from alternatives in the 20 selected industrial sectors for the operation of INTIB; to establish and further develop the INTIB network of suppliers of technological information and improve its flow.

Description and
1980/81 Work Plan:

As a continuing activity through 1980/81

- (a) Identifying a number of top-level experts who could advise INTIB as well as the decision-makers in developing countries on questions of technology selection and technology evaluation at the pre-investment stage. Special agreements would be made with some 50-70 international experts to cover the INTIB sectors. This is the first phase in creating a data base of individual experts who would be referred to for very specific inquiries needing specialized and assessed knowledge from a variety of sources on recent and forthcoming activities and developments in the technologies in question;
- (b) Broadening the base of institutional correspondents to cover more INTIB sectors ensuring good geographical distribution. Particular emphasis will be given to the identification of correspondent 'centres of excellence' in the developing countries themselves;

- (c) Preparing a directory of world-wide sources of useful and reliable information on technology choices, providing details on the orientation of each data base, the scope, mode and cost of accessing these sources;
- (d) Processing INTIB-type inquiries on technology choices with the help of external and in-house expert advice.

1.

Costing
(\$'000)

	1981 Consultants	RB Meetings	UNIDF	RP	UNDP	Computer Charges
(a)	30					
(b)	10					
(c)						
(d)	20					
TOTAL:	60					

Project Title: 2. INTIB - Identification of and establishment of linkages with and among INTIP clients.

Objectives: To develop linkages and communication with end-users of INTIB in developing countries, in particular through regional, sub-regional and national institutions so as to disseminate relevant information based on needs and to promote greater availability and utilization of technological information in the decision-making processes.

Description and 1980/81 Work Plan: As a continuing activity through 1980/81

- (a) Holding an expert group meeting of key personnel in potential regional, sub-regional and national information focal points to discuss draft proposals prepared by the secretariat for procedures of establishing national and regional information focal points and standard procedures and modes for processing requests for information on technology choices originating from national or regional end-users;
- (b) Staff missions to three national and/or regional industrial information centres identified as INTIB focal points (INFOTECH and Andean Group) to finalize detailed projects for establishing focal points, including requirements of physical facilities, staff recruitment and training, user sensitization and operational modalities and standards;
- (c) Organizing two meetings in priority INTIB sectors for end-users (planning and financing agencies, investment authorities, technology registries and regulation agencies, industrial information centres, R and D centres) to elaborate information needs for technology choices in these sectors;
- (d) Participation in international meetings related to INTIB:
WFEO/CEI, Buenos Aires 1981; FID/II, Barcelona 1981, Information for Industrial Development, Dublin 1981;

- (e) Briefing visiting trainees from INTIB national and regional focal points, SIDFAS , JPOS etc. on the work of INTIB;
- (f) Promotion through staff missions, SIDFAs and other official contacts of INTIB services and developing co-operation with more national and regional industrial information structures engaged in local processing of INTIB-related inquiries with a view to establishing more focal points and promoting TCDC exchanges of information on technology choices.

2.

Costing
(\$'000)

	1981 Consultants	RB Meetings	UNIDF	RP	UNDP	Computer Charges
(a)			25			
(b)						
(c)		50				
(d)			50			
(e)						
(f)						
TOTAL:		50	75			

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Project Title:

3. Information dissemination by INTIB

Objectives:

To provide governmental organizations, industrial enterprises and institutions in developing countries with processed information, utilizing the INTIB network in the sectors covered by INTIB, particularly regarding access to and selection of technologies.

Description and
1980/81 Work Plan:

- (a) As a continuing operation, INTIB will provide, through the Industrial Inquiry Service, answers to inquiries related to technology selection using the INTIB network;
- (b) The Industrial Inquiry Service will also supply to inquiries from developing countries answers drawn from a multitude of external and in-house sources covering sectors other than INTIB;
- (c) Preparation of technological information profiles in the sectors selected for the operation of INTIB, presenting comparisons of the principal industrial and technical data on technology choices specific to each of the alternatives offered for selection. These would cover:
 - (i) solar energy equipment
 - (ii) alcohol fuels
 - (iii) building materials
 - (iv) packaging food products
 - (v) information on pumps for agriculture.
- (d) Preparation of several information packages relating to technology choices in priority sectors using available material at UNIDO headquarters, in anticipation of expected demand in these sectors.

3.

Costing
(\$'000)

	1981	RB	UNIDF	RP	UNDP	Mailing and computer charges
	Consultants	Meetings				
(a) }	40					5
(b) }						5
(c)	35					
(d)	10					
TOTAL:	85					10

Project Title:

4. Development of Industrial Information Sources

Objectives:

To identify and promote utilization of information sources from both developed and developing countries relating to industrial and technological information to be channelled to developing countries by UNIDO under its overall industrial information and advisory services.

Description and
1980/81 Work Plan:

As a continuing activity through 1980/81

- (a) Compiling and updating sectoral Guides to Information Sources for publication under the publications programme; preparing an instruction manual for compilers of such Guides. Five Guides foreseen by the end of the biennium (So far 37 sectors have been covered.);
- (b) Mobilizing UNIDO-generated information material contained in publications, documents, studies, expert reports etc. by abstracting, indexing and including abstracts in a computerized data base and also in the Industrial Development Abstracts series published under the publications programme;
- (c) Developing and updating the Roster of Engineering Consultant Firms listed in a computerized data base for retrieval and analysis by sectoral area of competence with emphasis on newly-established firms in developing countries;
- (d) Developing a capability to access on-line world-wide data bases, including UNIDO's own, in order to ensure access to documentation, and to sources of information and of industrial supplies etc.;
- (e) Developing specific linkages with other UN organizations with a capability to open access to information sources, such as WIPO with the state-of-the-art search programme pursued with the co-operation of the Austrian Patent Office, UNEP with its INFOTERRA Referral System to sources of information on environmental aspects, AGRIS of FAO, and UNISIST of UNESCO etc.;

- (f) Compiling and updating a 'Directory of Industrial Information Services' in developing countries as a specialized extension of the IOB Directory of UN Information Systems and Services of relevance to industry;
- (g) Developing country files relating to technology structure, institutions etc., relating to the third world;
- (h) Monitoring through published material technological advances in selected fields of industry.

4.

Costing
(\$'000)

	1981	RB	UNIDF	RP	UNDP	Computer
	Consultants	Meetings				Charges
(a)	12					1.5
(b)	12					10
(c)						
(d)						28.5
(e)						10
(f)	6					
(g)						2
(h)	5					
	35					52

Project Title: 5. Dissemination of general industrial information

Objectives: To create, channel and accelerate the flow towards end-users in developing countries of industrial information, whether obtained from external sources or from the knowledge built up under UNIDO's operations and studies, of relevance to decision-makers in government and industry.

Description and 1980/81 Work Plan: As a continuing activity through 1980/81

- (a) Drawing the attention of the users to the existence and availability of UNIDO-generated reports, documents of various descriptions and publications through the publication of the Industrial Development Abstracts, entries in the UNIDO Newsletter and ad hoc bibliographies included in publications. Processing and meeting world-wide demand thus generated, for print-outs from the Abstracts' data base as well as for copies of the tapes of the data base itself and for copies of the documents thus advertised (The Section will send out about 100,000 UNIDO documents and other information material during 1981);
- (b) Meeting the overall documentation and referral requirements of UNIDO headquarters and field staff;
- (c) Providing to UNIDO projects and industrial information centres in developing countries information on industrial films in the monthly Ind-Film News Notes as well as a regular Calendar of Meetings, Fairs and Exhibitions.

5.

Costing
(\$'000)

	1981	RB	UNIDF	RP	UNDP	Printing and mailing charges
(a)	Consultants					50
(b)		Meetings				
(c)						
TOTAL:						50

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Project Title: 6. Publications relating to industrial and technological information for developing countries

Objectives: To produce and channel towards end-users information material generated by UNIDO in the form of documents of various descriptions, periodicals or contributions to the UN publications programme.

Description and 1980/81 Work Plan: As a continuing activity through 1980/81

- (a) Continuing the publication of the monthly UNIDO Newsletter with its language versions, English, French and Spanish, as well as Russian under special arrangement with VINITI, USSR, while examining the possibility to resume publication in Arabic and initiating one in Chinese. Writing features for the Newsletter, updating its readership mailing list of 30,000 entries and processing feedback correspondence from readers;
- (b) Pursuing the processing for publication of manuscripts generated under the various projects under the Technology Programme, the TIES Newsletter, the Guides to Information Sources, the Industrial Development Abstracts, the Ind-Film News Notes, the Calendar of Meetings, Fairs and Exhibitions etc.;
- (c) Discharging editorial, processing and dissemination responsibilities for the Development and Transfer of Technology series. Six issues each year will be prepared consisting of monographs, technological profiles et al, generated under the Technology Programme;
- (d) Developing publication material for Technology Programme activities, INTIB etc.

6.
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Costing
(\$'000)

	1981 Consultants	RB Meetings	UNIDF	RP	UNDP	Computer printing and mailing charges
(a)			14			12
(b)						
(c)						
(d)	5					
TOTAL:	5		14			12



