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UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION Dietr. LIMITED

UNIDO/ICIS.63 5 April 1978 ENGLISH

INTERNATIONAL CENTRE FOR INDUSTRIAL STUDIES TECHNOLOGY GROUP

WORK PROGRAMME FOR 1978/79

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INTRODUCTION

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- i -

This document provides a detailed account of the Programme of Work of the Technology Group (the Development and Transfer of Technology Section and the Industrial Information Section) for the biennium 1978/ 1979. This Programme includes activities to be undertaken by the Group, over and above the staff work of its members, from the Regular Budget (RB), the United Nations Industrial Development Fund (UNIDF), and the UNDP resources. The Regular Budget of UNIDO as a whole for 1978/1979 has been approved by the General Assembly and the programme outlined here under the Regular Budget represents the quantum of resources which the Group hopes to be able to utilize out of the allocations approved. . The activities under the UNIDF include those which have been already approved as well as those for which proposals have to be submitted to secure funds; they have been formulated in keeping in mind that roughly 10 percent of the resources of the UNIDF may be devoted to activities in the field of development and transfer of technology. Estimates of resources anticipated from the UNDP are based on specific projects under discussion or implementation.

Taken together, the Programme involves over the biennium, an estimated expenditure of roughly \$0.5 million from the Regular Budget, \$2.09 million from the UNIDF, and \$0.08 million from the UNDP resources. It differs from the earlier work programme not only in regard to the magnitude of resources that will be channelled into it, but also in that it is considerably more expanded in coverage and depth. Besides activities under the co-operative programme of action on appropriate industrial technology and the Industrial and Technological Information Bank (INTIB), it includes projects, inter alia, in the field of technology plans and policies, co-operation among developing countries, energy, industrial and technological information and technological advisory services. It takes into account the relevant mandates of UNIDO including resolution ID/B/Res. 47 (XI) on international co-operation in transfer of technology. Several activities in it have been so designed as to make contributions to fortncoming international conferences, in particular the United Nations Conference on Science and Technology for Development, the United Nations Conference on Technical Co-operation among Developing Countries and UNIDO III. The Programme, for the first time, provides a vertical integration of the work of UNIDO in the field of development and transfer of technology. It combines the elements of research, the formulation of new concepts and guidelines, meetings, the promotion of technical assistance, and the conduct of pilot activities to be followed up by other units in UNIDO. It also aims at implementing some aspects of the recommentations of the Consultation meetings as relate to technology and information.

Evidently this Programme is much bigger than what the Technology Group, as at present constituted, can handle and aims at a level of resources higher than what has so far been available to it. Consequently, it will, where necessary, be implemented across the board in UNIDO as far as the time and resources of other units permit. Altogether the Programme seeks to give technology the role that it deserves in international action for the accelerated industrialisation of developing countries.

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G.S. Gouri Deputy Director Officer-in-Charge of the Technology Group

Key to 1978 work schedule

Meetings

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- 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 programme.
- 13. First draft report submitted.
- 14. Final report submitted.
- 15. Report distributed.

NORK PROGRAMME OF THE TECHNOLOGY GROUP (\$*000)

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iv - including nuticipated UNDP inputs (15) including meting funds (2) including anticipated UNDF inputs (45) including anticipated UNDP inputs (50) including UNDP inputs (25) IOTAL 76/70 Remarks *‡‡ 874 (974) 149 239 245 352 27/ 182 4 217 3 190 • • • TOTAL ين. ۲ 123 175 20 ର୍ଷ 108 <u>6</u> 420 ç **JUIND** 130 8 108 90 355 5 I 2 11 150 6261 **82** 25 6; ł t 33 ۍ ۲ ŝ ii F 2 1 •••• • • TOTAL 162## 454 (554) ***** 109 122 8 112 52 20 180 379 (479) **UNI DF** 2 ک 104 t <u>1</u> 88 ц. 65 3 1978 22 82 ð, 8 I u. 36 ſ 47 ٤ logical canabilities 14 Promotion of technol-UNCSTD - preparation ogical co-operation technologies in developing countries in small industry veloping countries Identification and Appropriate Indussource indigenous technouse of indigenous develoned and deoperation between Selection and ac-duisition of Technological coamon; developing of documentation Technology Plans trial technology strengthening of Development and and Policies Invormation quisition of technology manarement countries Energy Title **Project No.** TECH 10 TECH 4 TTECH 6 TECH 8 TECH 2 TECH 3 ŝ TTECH 7 TTECH 9 TECH 1 TERCH

		<u>1978</u>			1970				
Project No.	Title	82	HIM	TOTAL	BB	UNI De'	TOTAL	TOTAL	TOTAL 73/79 REMARKS
TECH 11	Information material management	17	10	21		10	9	37	
TECH 12	Information analysis 40 and processing	4	10	8	1	10	10	8	
TECH 13	Information user linkares	17	I	17	, I , I	I		17	
	Tratentier systems networking	37	55	8	1	8	8	152	
TECH 15	INTLH extension and evaluation	1	1	1	e M	ç.	110	110	<pre>*including meeting funds (10)</pre>
TIBCH 16	Technolorical advisory service		3	001					extrabudgetary funds
	TOTAL	30	330° 1237 (133°)	1661** (1761)	218 *** 1159	1159	1427**** 3035 (3138)	3038 (3138)	 including meeting funds (2) including anticipated UNDP inputs (65)

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*** including meeting funds (10) **** including anticipated UNDP inputs (50)

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Programme	Development	and Transfer	of	Technology	Section
Component:					

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Project No.: TECH-1

Title: TECHNOLOGY PLANS AND POLICIES

Project Officers: K. Venkataraman, H. A. Janiszewski, E. Aguilar, W.H. Tanaka

Objective: To stimulate action by leveloping countries at the national level for the preparation of technology plans and policies both by assisting them, on request, to make an in-depth examination of the possibilities of their adopting technology plans and policies with reference to their specific requirements and by providing the necessary conceptual basis for such actions.

<u>Pescription and</u> <u>1978/1979</u> <u>Work Plan</u> :	a) Five meet poli tech b) Docu on t c) Conc appr deve 1) An evo gov <u>In 1970</u> a) Five leve b) An o plar o) Guio appr deve d) Actu	countries ings in the cies and in nology nla mentation technology opts and ropriate t alopment s intergover olving mether ernment re intergover olving mether ernment re intergover olving mether ernment re intergover ons and pol delines wi ropriate t such assess	ne national the feasion ans and not will be p plans and guidelines echnology trategies rnmental en notologies sgulatory : untries will up meeting icies will ll be comp echnology trategies ment of go	<pre>l level exami ility of thei licies; repared for a policies to will be evo policies with and policies xpert group m for assessin functions in ll be assist con guideling be held; leted on the policies with and policies vernment reg</pre>	eeting will be hel g the experience of tecnnology transfe ed at the national es for technology integration of n overall industria	arrent ated 1979; strial d for of or. al
<u>Costing</u> :	19 7 8	RB Consultan	ts Meeting	UNIDF	UNDP	
(\$'000)	a)	-		95	20	
	ъ)	10	-	-	-	
	c)	10	-	-	-	
	d)	<u> </u>	2	-	25	
	Total:	20	2	95	45	
	Total:	20	2	95	45	

1979	R Consultants	B Neetings	UNIDF	UNDP	
a)		-	100	-	
b)	-	-	30	-	
c)	10	-	-	-	
d)	-	-	-	50	
Tctal	10	-	130	50	
Total 1978-1979	30	2	225	95	= 352

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Schedule for 1978:

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	J	F	M	•	M	J	J		8	0	N	D
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6)						12					13	14
•)						12					13	14
ړه					4	5		6				

Development and Transfer of Technology Section
TECH-2
DEVELOPMENT AND STRENGTHENING OF INDEGENOUS TECHNOLOGICAL CAPABILITIES
J. Gilgun, K. Venkataraman, H.A. Janissewski, W.H. Tanaka
To assist developing countries in the development and strengthening of their industrial technological capabilities by providing them alternative approaches to organised action with reference to their epecific requirements; by promoting concrete programmes of action in selected a eas; and by promoting and facilitating requisite training in this field.
 In 1978: a) Alternative approaches and models for institution building as well as linkages will be developed; b) Available models of national offices for transfer of technology will be analysed and compared; c) The elements of a programme of national action for strengthening consultancy and information capabilities will be formulated, inter alia, through identification of requirements in specific regions/sub-regions; and a framework for action in strengthening information and consultancy services in the food industry in the countriss of the Andean Pact region will be developed and sought to be implemented through UNDP; d) Available training material in the field of transfer of technology will be consolid and will be established; e) An international symposium will be held on "Managerial Implications of Transfer of Technology" in Korea. In 1979: a) Alternative models for institution building and institutional linkages will be finalised and applied in two country missions to be undertaken on request; b) Guidelines for establishment or re-organisation of national offices for transfer of technology will be completed and published; c) Programmes of action in the field of consultancy and information at the national, regional and sub-regional levels will be developed through exploratory-oum-advisory missions and etate-of-the-art reviews; and the result of activities in regard to information and consultancy in the food industry in the Andean Pact region will be compiled and published. d) A training manual on selected aspects of transfer of technology will be compiled and published.

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Costing Data:	<u>1278</u>	C	onsul	tant	RB : s	Xee	otine	, s	•	UNII	•		UNDP	,
(\$*000)	a)		5		-		_						-	
	-/ b)		3				_			-			-	
	c)		6				-			34	ļ		15	
	d)		-				-			4	ļ		-	
	•)		-				-			16	.		-	
	Tota	1	14				•			54)		15	
	<u>1973</u>													
	a)		5				-			1	5		-	
	b)		5				-			-			-	
	c)		10				-			20			-	
	d)		-				-			(5		-	
	•)		-				•	-		•			-	•
	Tota	1	25				-			4	1		-	-
	Tota 1 3 7 8		33				-			9	5		15	= 149
Schedule for 1978:	•	J	F	M	A	X	J	J	A	s	0	N	D	
		Ľ		<u> </u>	╞╧	<u> </u>		Ļ	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
	A)				12			13	14	15				
	р)				12			13	14	15				
	c)			Niss	ions	up	to D	ec em	ber	1978				

Through December 1978

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Development and Transfer of Technology Section Drogramme Component: TECH-3 Project No.: Title: IDENTIFICATION AND USE OF INDIGENOUS TECHNOLOGIES IN DEVELOPING COUNTRIES Project Officers: W.H. Tanaka, J. Gilgun, K. Venkataraman, V. Maeots, G. Tabah and A. Swamy-Rao To assist developing countries in surveys of indigenous Objective: Sechnologies and collection and dissemination of practical experience to identify, up-grade and use technologies indigenously available, including those in the rural areas, and to promote the transfer of such technologies. In 1978: Description and a) Surveys of indigenous technologies in selected food 1978/1979 proceesing industries in India and Thailand will be Work Plan: made and the results disseminated to other developing oountries: b) A programme of action for the collection and discomination of information on technologies from developing countries and for the transfer of such technologies will be elaborated and the present discemination of such information a ccelerated; c) A conceptual approach and a programme of action for the application of industrial technology to rural development will be developed; d) Case studies of successful experience in developing countries will be undertaken in regard to:

- (i) development of miniplants in the iron and eteel sector; and
- (ii) the utilization of agricultural waste in paper making.

In 1979:

- a) The upgradation and/or transfer of selected technologies identified in the food processing sector through the surveys in Thailand and India will be promoted; in addition, fresh surveys of indigenous technologies in selected sectors/countries will be initiated;
- b) The programme of transfer of technologies from developing countries will be put into operation on a pilot basis;
- A pilot project on the application of industrial technology to rural development will be implemented; and
- d) The case etudies on mini iron and steel plants and the utilization of agricultural wastes in paper making will be evaluated through two separate techno-economic workshops and the results disceminated for the benefit of the developing countries.

losting Data:		RE	l .	UNIDE	UNDP
(\$*000)	1978 Co	nsultants	Meetings		
	a)	21	-	5	-
	b)	3	-	25	-
	c)	5	-	-	-
	d)	-	-	40	-
	Total	2)	-	70	-
	1)7)				
	a)	10	-	60	-
	b)	-	-	50	-
	c)	15	-	-	-
	d)	-	-	40	-
	Total	25	-	150	-
	Total 10 7 3/ <u>9</u>	54	-	22 0	-

Sch	edi	11	•	for	
127	3:				

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	J	F	M	A	M	J	J	A	S	0	N	D	
a)		Sur	veys	Com	plet	ed	_		Res	ults	dis	semir	nated
р)				12	13			14	15				
0)													
d)				13					14	15			

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Programme Component:

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Development and Transfer of Technology Section

Project No.: TECH-4

Title: APPROPRIATE INDUSTRIAL TECHNOLOGY

Project Officers: K. D. N. Singh, W. H. Tanaka, K. Venkataraman, H. W. Pack H.A. Janiszewski and G. Tabeh

Objective and
Description:To follow up the Programme of Action on Appropriate
Industrial Technology, to promote and/or implement
specific projects in this area and to mobilize
wide interest and action both at the policy making and
operational levels, in particular through the meetings of
the Consultative Group and International Forum on Appropriate
Industrial Technology.

<u>Description and</u> 1978/1979 Work Plan: <u>In 1978</u>:

- a) A meeting of the International Forum on Appropriate Industrial Technology will be organized with special emphasis on twelve industrial sectors and the overall policy norms to be adopted in formulating an appropriate industrial technology strategy as part of the overall industrial development strategy;
- b) & meeting of the Consultative Group on Appropriate Industrial Technology will be held to elaborate conceptual and operational links between appropriate technology and industrial development strategy and to provide inputs for the International Forum on Appropriate Industrial Technology;
- c) A socio-economic feasibility study on the development of a small-scale, low-cost rice bran stabilizer will be undertaken and completed;
- d) Implementation will be continued on the project to develop the most suitable and appropriate production unit in the mechanical industries sector for developing countries in Africa; country investigations will be completed and a country for establishing the pilot unit will be selected;
- e) A project for the strengthening and modernization of the technological performance of small and medium scale industries in Philippines will be undertaken and a state-of-the-art survey initiated in '97d;
- f) As part of the pilot operation commenced in 1977, two or more research programmes will be sponsored at the graduate level in universities in the field of appropriate industrial technology.
- In 1973:
- a) Follow-up action on the conclusion and recommendations of the International Forum on Appropriate Industrial Technology will be undertaken in selected sectors as well as in regard to overall policy aspects;
- b) A meeting of the Consultative Group on Appropriate Industrial Technology will be held to discuss the results of the Forum and also to provide necessary inputs for the UNCSTD and UNIDO III;
- c) Following the socio-economic feasibility study steps will be taken, as necessary and appropriate, to set up a pilot

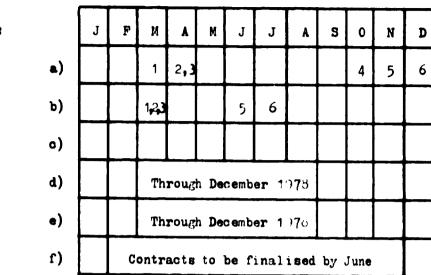
plant in a selected country for the development of a small-scale rice bran stabiliser;

- 1) The establishment of a pilot production unit in the mechanical industries mector in Africa will be promoted;
- e) a review of the results of the project for strengthening and modernising technological performance for small and medium scale industries will be made and the experience disseminated to other developing countries through a regional workshop;
- f) two or more pilot projects for research at graduate level will be sponsored and the experience of the pilot operations reviewed on an interim basis.

Costing data:	<u>1978</u>	F Consultants	B Neetings	Uni df	UNDP
	a.)		-	100 (200)	-
	b)	40	-	-	-
	o)	-	-	-	25
	d)	-	-	140	-
	•)	-	-	139	-
	f)	10	-		-
	Total	50	-	379 (479)	25
	<u>1979</u>				
	a.)	-	-	50	-
	b)	50	-	-	-
	c)	-	-	- To	be ascertained
	d)	-	-	160	-
	•)	-	-	145	-
	f)	15	-		-
	Total	65	-	355	-
	Total 19 78 -	115 9	-	734 (834) •	25 - 874 (974)

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1978 Schedule:

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Froject No.1

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Frecent officers:

Objective:

Description and 1977/1979 Work Plan: SELECTION AND ACQUISITION OF TECHNOLOGY

J. Gilmin, K. Venkataraman, V. Maeots, H.A. Janiszewski

To assist the developing countries in improving the means whereby they can assess, select and acquine, on favourable terms, technologies appropriate to their industrial development requirements and strengthen their memotiation capabilities.

In 1978:

PECH-5

- (a) A compilation of alternative technologues will be prepared in selected industrial branches with special emphasis on industries meeting basic needs;
- (b) A methodology for comparison and evaluation of alternative technologier will be developed and applied in two relected industrial branches; in addition, technical memoranda will be prepared and published on sugar processing and rice milling;
- (c) Documentation will be prepared and a workshop conducted to exchange experience on the acquisition and use of technology in public sector enterprises;
- (d) Guidelines for the evaluation of technology transfer acreements will be published and a workshop on practical issues of technology transfer organized on the occasion of the TECH TRANSFAIR 75;
- (e) Case studies in licensing in selected industrial sectors will be prepared and published;
- (f) An assessment of the use of selected second-hand textile machinery will be made through case studies.

In 1979:

- (a) Compilations prepared in 1978 will be published and compilations in additional selected sectors will be undertaken;
- (b) Technical memoranda will be prepared and published for two additional products;
- (c) As a follow-up of the results of the workshop, selected case studies will be published;
- (4) UNIDO guidelines for the acquisition of technology will be enlarged and updated; and a training programme in transfer of technology will be conducted in a selected developing country;

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(e) Further case studies on licensing will be published in selected industrial sectors;

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(f) Results on the assessment made in 1978 of the use of selected second hand textile machinery will be diseeminated, as appropriate.

Costing data: (\$'000)	<u>1978</u>			RB			_		UNI	DF	U	NDP	
(******)	(a)		neult			eting			1(-
	(b)		23			-				-		_	
	(c)		10			-			2	- n		_	
	(d)		2			-						_	
	(e)		4			-			3	,			
	(f)		8			-				_			
												-	-
	Tcta	1	47			-			6	5			
	<u>1979</u>												
	(a)		•	•		-			10	D		-	
	(b)		20			-				•			
	(o)			taff	work				•	-		-	
	(d)		5	i		-			2	0		-	
	(•)		-			-			1	5		-	
	(f)			taff	work								
	Tota	.1	25			-			4	5			
	Tota 1978	ม V79	72	•		•			11	0		- 1	182
Schedule for 1975:	J	P	M	N	A	M	J	J	•	8	0	N	D
(.)					12				13	14	15		
(b)						13	14	15					
(c)							5	6					
(a)						5,15	-						
(•)		 			†	13	14	15	 				
(1)							+	13	14	15			

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Frogramme Component:	Developm	ent and Transf	er of Technology	- Section
Project no.:	TECH 6			
Title:			ation between dev in small industry	
Project officer:	H.W. Pac	k and L. Karli	k	
Objective: Description and Work Plan 1974/1979:	technolo in the d <u>alia</u> , th of infor <u>ln 1975</u> , settled selected	rough the syst mation. the broad pri and participat the mechanism	berational a med- ation between sma developing countri- cematic collection inciples of oper- ting countries at n will be made op	all industry ries, <u>inter</u> on and exchange ation will be ad sectors
Costing data: (US\$ 1000)	RB Consultants	meetings	UNI Dr'	UNDP
1978		-	25	
1979	-	-	20	-

Total 1978/1979	-	-	45	-

Schedule for			1			1		•••••		r	i 🗥	1			•
1976	-	J	1	P (M		M	J	J	A	S	U	N	D	
			-	÷		12				14	•	•		•••	

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- 13 -Development and Transfer of Technology Section Programme Component: Project No.: TECH 7 Title: PROMOTION OF TECHNOLOGICAL CO-OPERATION AMONG DEVELOPING COUNTRIES Project officers: W.H. Tanaka, R.T. de Mautort, K. Venkataraman, H.W. Pack, H.A. Janissewski **Objective:** To promote technological co-operation among developing countries in the development and transfer of technology, in particular through effective institutional linkages. Description and In 1978: 1978/1979 a) In collaboration with ESCAP, a workshop for the focal Work Plan: points of the Asian Regional Centre for Transfer of Technology will be held, with particular reference to institutional linkages to be established among them and with the RCTT and UNIDO: b) The RCTTs of the ESCAP and ECA regions and the proposed RCTT of the ECWA region will be assisted in their country missions and other relevant activities in order to strengthen and initiate specific activities under their suppices at the national and regional levels. c) A mechanism for the collection, consolidation and exchange of information on research programmes of industrial research institutes of developing countries will be developed and made operational, including a network of technological institutions of the ASEAN Group countries; d) As a follow-up of the recommendations of consultation meetinge, the feasibility of establishing sectoral technology centres in selected industrial sectors will be examined; e) A meeting of heads of national registries of transfer of technology will be held in order to arrive at mechanisme for concrete co-operation in selected fields. An initial programme will be started in 1978. In 1979: a) Two workshops will be organised for the focal points of the ECA and ECWA regions respectively; b) Assistance will continue to be provided to selected activities of the regional centres for transfer of technology in different regions; c) The system of exchange of information among industrial research institutes will be continued; d) Work on the establishment of sectoral technology centres will be continued: and e) Follow-up action will be taken on the decisions of the meeting of heads of national registries, including, if necessary, a further meeting.

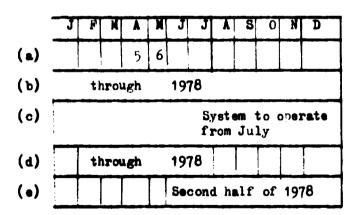
Cost	ing	data:	

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	RB		unidf	UNDP
1978	Consultants	meetings		• ·
(.)	-	-	15	-
(ъ)	-	-	22	-
(n)	5	-	-	-
(d)	-	-	20	-
(•)		-	47	
Tot al	5	· _	104	-
<u>1979</u>				
(a)	-	-	30	-
(ъ)	-	-	28	-
(c)	-	-	-	-
(d)	-	-	20	-
(•)	-	-	30	
Total	-	-	108	-
Total				
1978/197	19 5	-	212	= 217





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Programme Component:		Devel	opment and	i Transfer of 1	Technology Sec	tion	
Project no.	1	TECH	9				
Title:				CONFERENCE ON REPARATION OF			
Project offi	cert	K. Ve	nkat araman	W.H. Tanaka,	J. Gilgun an	1 H.W. Pack	
<u>Objective</u>		Confe on se Sech to th techn fresh	energy, the	dies will deal objectives in present situ	bing action- with the rel the development of in development of the dev	cise studies	ssues of
Description 1978/1979	and	In 19 tribu		ollowing studie	es will be pre	pared and dis-	
Work Plan:		(a)		policies and a ical capabilit:		elopment of	
		(b)				or development on and innovatio	on t
		(c)	Interrelat	tionship betwee	en industriali	zation and	
			Human res	ources develop	ment for the i		;; and
				ical needs of (
		elabo	orated as	tudies at (a) appropriate fo UNIDO III.	to (d) will be r eventual die	e revised and stribution at	
Costing dat. (\$'000)	<u>e</u> :		RB		UNIDF	UNDP	
(\$*000)	1978	Co	nsult ants	meetings			
	(a)		5	-	-	-	
	(ъ)		5	-	-	-	
	(c)		5	-	-	-	
	(d)		5	-	•	-	
		Total	20	-	-		
	1979						
	(a)		5	-	-	-	
	(b)		s t	aff wo	r k		
	(0)		5	-	-	-	
	(d)		5	-	-	-	

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Total

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Total 1978/1979

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Schedule for 1976

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	J	P	M	A	N	J	J	A	S	0	N	D
(a)			12			13	14	15)
(b)			12				14		• •	•		
(c)	•		12		•	13	14	1 5	• -	•	•	
(d)	•••		12		•••••	13	14	15	•••	• - •		

com onent:

Project no.1

Title:

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Project officer:

Obj:ctive:

<u>Description and</u> <u>1978/1979</u> Work Plan: TECH 9

ENERGY

J. Gilgun, V. Maeots and A. Swamy-Rao

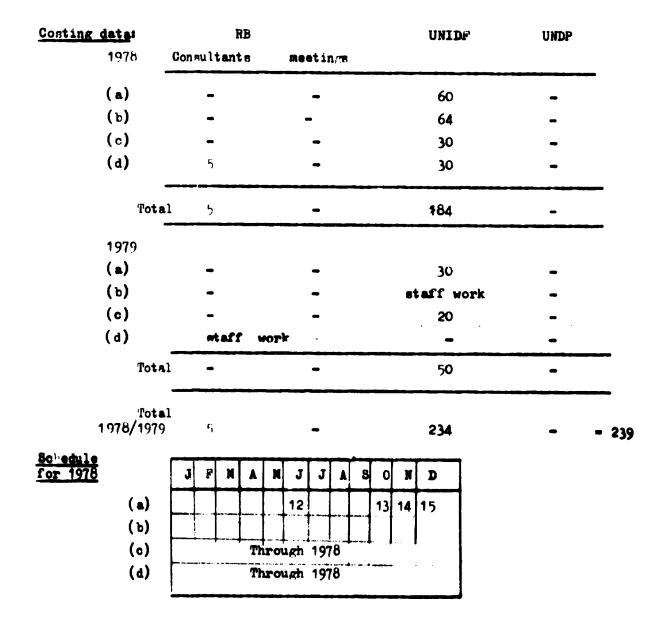
To assist the developing countries through analytical documents, meetings and pilot projects in the development and/or adoption of appropriate technologies in conventional and non-conventional sources of energy

1n 1975:

- (a) Profiles of alternative energy-maximum technologies in selected energy-intensive inductries will be prepared and disseminated;
- (b) A workshow on technology transfer and promotion of electrical industries through co-overation among developing countries will be held;
- (c) A milot project for the generation and utilization of non-conventional sources of energy will be promoted in a selected country; and
- (d) A study, based on a selective survey, will be made on the question of meeting the energy needs of the decentralized industrial sector and their technology implications.

In 1979

- (a) Profiles of alternative energy-saving technologies will be prepared and distributed for an additional number of selected energy-intensive industries;
- (b) Follow-up action will be taken on the workshop for the promotion of transfer of technology in electrical industries;
- (c) The pilot project on non-conventional sources of energy will be continued;
- (d) The results of the study on the energy needs of the decentralized sector will be analysed for their policy implications.



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- 19 -Programme Industrial Information Section Component: (Chief: R.T. de Mautort) TECH-10 (78-79) Project No .: Title: Information Source Management Project Officers: V. Pyrogov, V. Podshibyakin, Ms. I. Unamboowe, R. Lafond, E. Rannert, H. Beyerly, R. Cots. Objective: To serve the information needs of UNIDO in its studies and operational work, and in particular those of its ongoing industrial information activities and the complementary pilot project of an Industrial and Tschnological Information Bank (INTIB), by identifying, connecting with and drawing on sources of industrial and technological information. Description and 1978-79 Work Plan: a) dsveloping and drawing on the "Network of Correspondents" and "Roster of Consultants" for answers to inquiriss by the Industrial Inquiry Service; b) compiling (6) and updating (3) <u>Quides to Information</u> Sources for publication; o) drawing on computarized tachnological data banks, including UNIDO's own INDIS base at ICC Geneva; d) drawing on specialized information material developed in research and consulting institutes; e) drawing on patent information from WIPO/INPADOC collection; f) drawing on sources of audio-visual information material: g) drawing on world-wide sources of books, periodicale, documents published or unpublished for integration into the UNIDO Library: h) identifying and drawing on sources of technological information available in developing countries. While a), b) and g) represent continuation of

industrial information activities as in the past, o), d), e) and h) are new INTIE related functione, complementary to the former.

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<u>1978</u>	R Consultants		UNIDF	UNDF
a)			78	-
b)	10	-	-	-
c)	8	-	-	-
1)	5	-	-	-
•)	3	-	-	-
f)		-	8	-
a)*	-	-	-	-
h)	10	-	-	-
Fotal	36	-	86	-
1979				
a)	-	-	100	-
Ъ)	10	-	-	-
c)	5	-	-	-
d)	5	-	-	-
e)	3	-	-	-
f)	-	-	-	-
F)*	-	-	-	
h)	-	-	-	-
Total	23	-	100	-
Total 1978-7	9 59	-	186	, -

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* Separate budget for library acquisitions

1978 Schedule:

Continuing activity.

	- 21 -
Programme Component:	Industrial Information Section (Chicf: R.T. de Mautort)
Project No.:	TECH-11
<u>Title</u> :	Information Material Management
Project Officers:	V. Pyrofov, H. Beyerly, R. Coté, E. Rennert and Ms. A. Melajaervi.
<u>Objective</u> :	To serve the information needs of UNIDO in its studies and operational work and in particular those of its ongoing industrial information activities and complementary pilot project of an Industrial and Technological Information Bank (INTIB) by manintaining, consolidating, and updating its store of industrial and technological information material.
Description and 1978-79 Work Plan:	 a) technical processing and reader services in the Library; b) abstracting UNIDO publications, documents and reports for computer storage and publications in the INDIS/Industrial Development Abstract Series;
	c) microfiching in-house information material when abstracted for storage retrieval and duplication;
	d) by scanning and organizing information material with particular relevance to technology selection;
	 e) developing country files with specific relevance to the information needs of the studies and operations sections;
	f) maintaining a computerized roster of consultants.
	While each of the subheadings include continuation of industrial information activities as in the past, they are due, in particular under d) and f) to acquire a new quantitative and qualitative dimension at the service of the pilot INTIB operation, calling for expert services.

<u>1978</u>		RB ts Weetings	UNIDF	UNDP
a)	Staff	Nork		
b)	-	-	10	-
c)#	-	-	-	-
d)	10	-	-	-
e)	2	-	-	-
f)	5	-	-	-
Total	17	في	10	-

Costing data:

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1978

<u>1979</u> Con		B Meetings	UNIDF	UNDP		
a)	Staf	f Work	-	-		
b)	-	-	10	-		
c)#	-	-	-	-		
d)		-	-	-		
e)	-	-	-	-		
Total	-	-	10	-		
Total 1978-79	17		20	-		

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* Separate budget for library acquisitions

1978 Schedule:

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Continuing activity.

Programme Component:	Industrial Information Section (Chief: R.T. de Mautort)
Project No.:	TECH-12
<u>Title</u> :	INFORMATION ANALYSIS AND PROCESSING
Project officers:	V. Pyrogov, V. Podshibyakin, R. Coté and Ms. A. Melajaervi
<u>Objective</u> :	To serve the information needs of UNIDO in its studies and operational work, and in particular those of its ongoing industrial information activities and complementary pilot project of an Industrial and Technological Information Bank, INTIB, by processing industrial and technological information into a form and with a content of practical value to end users in developing countries.
Description and 1978-79 Work Plan:	a) preparing technological profiles in the INTIB sectors of industry;
	b) processing information material from in-house subject

- se subject files and from outside sources for the purpose of answers to inquiries addressed to INTIB and the Industrial Inquiry Service, in particular relating to the selection of technologies;
- c) processing and editing manuscripts of industrial and technological information relevance for publication in the DTT series, and summarizing in the UNIDO Newsletter;

- d) processing information on audio-visual features of industrial and technological information relevance for dissemination in "Film News Notes";
- e) selective dissemination of information from outside sources obtained by the Library to headquarters and field staff and experts.

While a) will essentially relate to a specific INTIB mandate, the other items are of a continuing character but will be amplified and oriented at the service of the pilot project. Profiles under a) will mainly be devoted to the INTIE sectors agro-industries and agricultural machinery, as iron and steel and fertilizers were attended to in 1977.

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Costing data: (\$1000)	<u>1978</u>	Consulta	RB ants Meetings	UNI DF	ստր	
	(a)	30	-	-	_	
	(b)	10	-	-	-	
	(c)	-	-	10	-	
	(d)	8	taff work			
	(e)	8	taff work			
	I	Total 40	••	10	-	
	<u>1979</u>	•••••••••••••••••••••••••••••••••••••••				
	(a)	-	-	-	-	
	(b)	-	-	- 10	-	
	(c) (d)	-	- taff work	10	-	
	(e)	staff work				
		Total -	-	10		
	1978	Total 3/1979 40	-	20	•	- 60

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Schedule for 1978:

Continuing activity

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Programme Industrial Information Section Component: (Chief: R.T. de l'autort) Project No: TECH-13 Title: Information User Linkered Project Officer: R. Coté and Us. I. Unarboowe Objective: To corve the needs for outlate for the information supplied by UNIDO under its ongoing industrial information activities and complementary pilot project of an Industrial and Techrological Information Bank, INTIR, by establishing interlinks with the users in the developing countries and appraising their information requirements. Description and 1978-79 Work Plan: a) preparing a booklet on INTIB services and disseminating it among selected institutions; b) nursuing the publication of the monthly UNINO Newsletter, re-orienting it and its computerized mailing list to constitute the principal industrial and technological information bank medjum: c) establishing interlinks with users appraising their requirements. While a) will be completed in 1978, b) is a continuing activity; activity under c) is limited to 1978 to correspond to the pilot operation of the INTIP.

Costing data:			UNID	UNPP		
	1978 Concultants Hostings					
	a)	2	- /	···	-	
	b)	Sta	fî Vork			
	c)	15	-	-	-	
	Total	17		88	•	
	1979	N1	J.			
	Total 1	୨୪ ୦-197 ୨		n an a shingin sa shar Aigi a shina s		
		17	-	-	••	
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1978 Schedule:

a) will be completed by June 1973; the rest will continue through 1978.

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Programme	Industrial Information Section	
Component:	(Chief: R.T. de Mautort)	

Project No.: TECH-14

Title:

INFORMATION SYSTEMS NETWORKING

Project officers: R.T. de Mautort, J. Gilgun, Ms. I. Unamboowe H.A. Janiszwwski and H. Lafond

Objective:

To interlink UNIDO's own industrial and technological Information network of institutional sources and outlets for its information work in this area into the overall technological information exchange network being planned in the UN system and with other relevant networks.

Description and 1978-79 Work Plan:

- a) contributing to the development of the network under UNACC auspices;
- b) contributing to international meetings devoted to technological information needs in developing countries;
- c) organizing exchange of information and visits among national information banks, registries, etc.;
- d) carrying out a co-operative programme with OAS, RITLA, and FID/CLA/II for information networking in Latin America;
- e) defining and undertaking a co-operative programme with Technonet and ESCAP in the South East Asian Region;
- f) carrying out a co-operative programme with ESCAP ACTT for patent information dissemination;
- g) carrying out a co-operative programme with WIFO/INPADOC for the developing of bridges between patent and other classification systems.
- h) carrying out co-operation programmes with the World Bank in the Philippines and Tunisia to organize demand, screening and service by UNIDO for answers to technological inquiries from small and medium enterprises, relating to investments involving investment banks.

" dotas	XB			U 11439.2	UHOP
)	C	onsultents	meetings		
	1978				
•	(a)	5	-	**	••
	(b)	5	-	10	
	(c)	-	-	10	-
	(d)	5		-	-
	(•)	3	-	-	••
	(f)	10	-		••
	(g) (h)	9		35	•• ••
	Total	37		55	
	<u>1979</u>	-	-	60	-
	Total 1978/1979	37	-	115	× 152

<u>Costing deta</u>: (51000)

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<u>Programme</u> Component:	Industrial Information Section (Chief: R.T. de Mautort)					
Project No.:	TECH-15					
<u>Title</u> :	INTIB co-ordination, extension and evaluation					
Project officer:	R.T. de Mautort					
<u>Objective</u> :	To co-ordinate INTIB activities as a complement to existing information and advisory services; to bridge a 6 months' period between the end of the pilot operation, 31 December 1978 and IDB's decision at its May/June 1979 session on its continuance; and to evaluate the operation and report to the IDB.					
Description and 1975-79 Work Plan:	a) co-ordination of INTIB activities;					
	 b) continuing for six months into 1979 INTIB operations as per details under projects TECH-10 to TECH-13; 					
	c) holding an evaluation meeting of experts in February 1979;					
	d) reporting on INTIE operations since July 1978 and formulating recommendations to IDB.					
Costing date	/					
(1100)	KB . UNIDP UNDP UNDP					
1978	n 1 1					

_	oonsultante	meetings		
1978		nil		
<u>1979</u>	a) - b) - c) 20 d) -	_ 10 _	80 -	
Total 1978/19	79 20	10	80	er 910

Schedule for 1976

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No work in 1978. Project intended for first six months of 1979.

Programme component: Technology Group (Development and Transfer of Technology Section and Industrial Information Section)

Project No.: TECH 16

Titlet

Project officer: E. Amillar and H.A. Janissewski

Objective:

To provide at the request of the governments and parties concerned and on the basis of the information and expertise available within UNIDO, information, consultation and advisory services to leveloping countries at the time of the negotiation of technology contracts and related technology arrangements for large projects.

In 1978, advisory services will be provided for ten largescale projects. An evaluation of this project will be undertaken at the end of the year.

Costing datas (\$*000)

Hunds to the extent of \$100,000 have been requested from extrabudgetary sources.

Schedule for 1978:

Through 1973

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TECHNOLOGICAL ADVISORY SERVICES



