# JAPAN INTERNATIONAL COOPERATION AGENCY

annual report 1987

JEN LIBRARY 1040992[8]



### annual report 1987

#### Printed in Japan.

#### © 1987 JAPAN INTERNATIONAL COOPERATION AGENCY

P.O. Box 216, Shinjuku Mitsui Building 1-1, 2-Chome, Nishi-Shinjuku, Shinjuku-ku, Tokyo, 163 Japan Tel.: 03-346-5311

国際協力事	洪国
秀人 <b>88.2.3</b>	R000
3 May 1 1 1 1 0	36
登録No. 17110	GAI

#### **FOREWORD**

The "JICA Annual Report - 1987" is a detailed report on the Japan International Cooperation Agency (JICA)'s activities conducted during fiscal 1986.

JICA's activities, encompassing government-based technical cooperation, grant aid, Japan Overseas Cooperation Volunteers (JOCV), development cooperation, emigration services and training of experts in various fields of technology, have continued to expand and diversify. JICA's budget for fiscal 1987 stands at more than ¥103.5 billion, which is four times larger than that for 1974, when JICA was established. The grant aid extended during fiscal 1987 is expected to exceed the ¥140 billion mark. This amount is approximately seven times larger than that for fiscal 1978 when grant aid programmes were added to JICA's responsibilities. In August this year the "Law Concerning Dispatch of Japan Disaster Relief Teams" came into effect. As a result, the dispatch of international emergency assistance teams to disaster-stricken countries has become a new function of JICA.

It goes without saying that such an expansion, both quantitative and qualitative, of JICA's international cooperation activities reflects Japan's efforts to increase and improve its Official Development Assistance (ODA), particularly, to meet developing nations' needs for "human resources development." As is often pointed out, however, the ratio of Japan's technical cooperation to its total ODA still remains very low — about half the average of DAC member countries. We should bear this in mind and make efforts for its improvement. At a time when JICA's activities increasingly expand and diversify, it is a matter of urgent necessity for us to further strengthen our programme implementation system. We have taken various rationalization measures in realignment of personnel, structural reorganization, etc. Nevertheless, we find it imperative to increase our personnel in order to ensure effective implementation of our programmes. While it is fortunate that there has been a net increase in our personnel over the past two years, the need for a further increase is still being keenly felt.

JICA welcomes the recent designation by the Japanese Government of an "International Cooperation Day" and sincerely hopes that this event and the present annual report will serve for further deepening of public understanding of international cooperation.

October 1987

Keisuke Arita

President
Japan International Cooperation Agency

## CONTENTS

•	CONTENTS	
Part I	The Japan International Cooperation Agency	
	and its Functions	7
Part II	Performance of Japan International Cooperation	
	Agency in Fiscal 1986	17
Chapter 1.	Government-Based Technical Cooperation	18
1.5	Section 1. Training Programme for Overseas	
	Trainees	18
3 4 4	Section 2. Expert Dispatch Programme	23
	Section 3. Equipment Supply Programme	27
	Section 4. Project-Type Technical Cooperation	
	Programme	32
	Section 5. Development Survey Programme	50
Chapter 2.	Grant Aid Programme	63
Chapter 3.	Japan Overseas Cooperation Volunteers Programme	
	(JOCV)	71
Chapter 4.	Development Cooperation Programme (Investment in	
	and Financing of Development Projects)	.75
Chapter 5.	Emigration Service	76
Chapter 6.	Recruiting and Training of Qualified Japanese Experts	
	for Technical Cooperation	79
Appendix	(Statistics)	
	Performance in Fiscal 1986 by Region, Country, Type of	
	Cooperation and Sector (As of March 31, 1987)	81
	entrantial control of the second of the seco	

# Part I The Japan International Cooperation Agency and its Functions

#### The Japan International Cooperation Agency and its Functions

#### 1. History and Functions

The Japan International Cooperation Agency (hereinafter referred to as "the Agency" or "JICA") was established on August 1, 1974 under the Japan International Cooperation Agency Law (Law No. 62, 1974) as an agency for government-based technical cooperation for developing countries and for administration of emigration services. At the time of its establishment, the Agency took over the functions of the then Overseas Technical Cooperation Agency, established in 1962 for the purpose of providing overseas technical cooperation, and those of the then Japan Emigration Service instituted in 1963. The Agency also absorbed all the functions of the Japan Overseas Agricultural Development Foundation and assumed new responsibilities including development cooperation and recruiting and training of qualified Japanese experts for technical cooperation.

The Agency performs its activities for international cooperation in accordance with the Japan International Cooperation Agency Law under the supervision of the Ministry of Foreign Affairs, the overall authorities, as well as of the Ministry of Agriculture, Forestry and Fisheries and the Ministry of International Trade and Industry, which are responsible for specific matters under their jurisdiction. For the smooth and efficient discharge of its duty for international cooperation, the Agency is striving to obtain a wide range of cooperation from the relevant government agencies, local public bodies and private organizations in Japan by keeping close contact with them and to act in concert with the governments of developing countries and the related international organizations.

The functions of the Agency fall under the following categories:

- (1) Government-based technical cooperation 1
- (2) Grant Aid programme
- (3) Dispatch of Japan Overseas Cooperation Volunteers (JOCV) members
- (4) Development cooperation programme (Investment in and financing of development projects)
- (5) Emigration services
- (6) Recruiting and training of qualified Japanese experts for technical cooperation

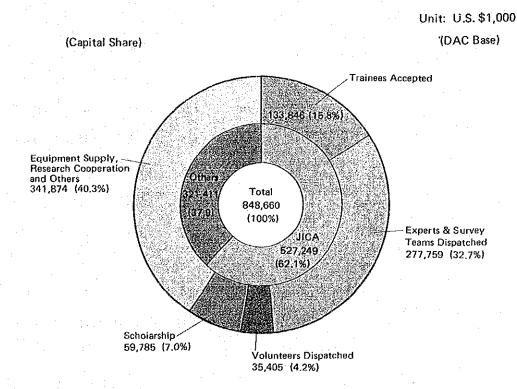
The fund required by the Agency for carrying out its technical cooperation activities is budgeted by the Japanese Government under its Official Development Assistance (ODA) Programme. The share of the Agency in the total expense for technical cooperation of the Government in calendar year 1986 was 62.1%.

#### 2 Budget

The budget of the Agency consists of Grants, Investments and Funds in Trust. The amount of the original budget of the Agency for fiscal 1986 was ¥102,591 million, comprising ¥90,866 million for Grants, ¥4,852 million for Investments and ¥6,873 million for Funds in Trust.

The actual expenditure by the Agency in relation to technical cooperation in fiscal 1986 amounted to \\$79,036,923 thousand, including the expense brought forward from 1985. Fig. 2 shows the expenditure by programme and Fig. 3 shows its distribution by area.

Fig. 1 Expenditure of Japan's Technical Cooperation Programme (Calendar Year 1986)



						•
Та	ble 1. Tr	ends of JIC	CA's Budge	t		*** _ * * * *
					(Unit: ¥	Million)
Year Expenses	1982	1983	1984	1985	1986	% compared with previous γea
I. Grants	66,079	71,875	77,734	84,271	90,866	107.8
1. Working Expenses	53,006	58,421	63,420	69,539	75,658	108.8
(1) Expenses for Overseas Trainees	8,466	9,692	10,462	11,667	12,653	108.5
Accepted	0,.00	, 14.5 ±			J. 187.	
(2) Expenses for Experts Dispatched	7,991	8,898	9 253	9,642	9,444	97.9
(3) Expenses for Development	12,308	13,190	13,958	13,450	14,388	107.0
Surveys	,-					\$ 8.55 t
(4) Expenses for Technical	4,632	5,018	5,446	6,222	7,388	118.7
Cooperation Centres	,,,,,,			•		
(5) Expenses for Equipment Supply	1,339	1,432	1.481	1,518	1,823	120.1
(6) Expenses for Health and	3,652	3,769	3,927	4,134	4,013	97.1
Medical Cooperation	3,032	3,,	<b>0</b> ,5,	,		ute tjuare
(7) Expenses for Population and	661	775	814	829	910	109.8
Family Planning						
(8) Expenses for Agricultural	6,211	6,734	7,050	7,399	7,635	103,2
and Forestry Development		.,,,	.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Cooperation						
(9) Expenses for Experts' Welfare	334	376	416	460	478	103.9
(10) Expenses for Recruiting and	683	780	840	958	1,025	107.0
Training Qualified Persons	:					
for Technical Cooperation					:	
(11) Expenses for Development	743	787	821	844	876	103.8
Cooperation				4		
(12) Expenses for Industrial	1,296	1,424	1,516	1,604	1,721	107.3
Development Cooperation						:
(13) Expenses for Grant Aid	94	113	123	1,909	2,277	119.3
Cooperation				-,		
(14) Expenses for Japan Overseas	4,597	5,433	6,248	7,765	8,822	113.6
Cooperation Volunteers	· ·	* ".				
(15) Expenses for Youth Invitation		_	1,065	1,138	1,205	105.9
(16) Expenses for International		<u> </u>			1,000	
Disaster Relief						
(17) Others (adjustments)	'	<u>.</u>	. · · · · · ·	_	. –	·
2. Working Expenses for	1,910	1,992	2,000	2,066	2,158	104.5
Emigration Service						e. Table 1
3. Administrative Expenses	11,163	11,463	12,314	12,667	13,051	103.0

-						
		1 1				
Year						% compa
	1982	1983	1984	1985	1986	with
Expenses	<u>.</u>					provious
II. Investments	5,068	5,118	4,651	4,324	4,852	112.
1. Expenses for Facilities	3,418	3,268	2,621	2,174	2,602	119.
2. Funds for Investment in and	200	400	800	900	1,000	111.
Financing of Development						
Projects		H				•
3. Funds for Investment and	1,450	1,450	1,230	1,250	1,250	100.
Financing for Emigrants					1.5	:
III. Funds in Trust	5,808	6,135	6,318	6,744	6,873	101.
1. Funds in Trust for Surveys	5,808	6,135	6,318	6,744	6,873	101.
on Overseas Development						:
(1) Expenses for Surveys on	3,701	3,893	4,023	4,207	4,260	101.
Overseas Development						
(2) Expenses for Basic Surveys	2,107	2,242	2,296	2,536	2,613	103.
on Resources Development						:
Cooperation			:			
2. Expenses for the Southeast			. :	_		
Asian Fisheries Development						
Centre	67.4			2		

Table 2. Expenses of JICA by Type of Cooperation

										į		
	1982	2	1983	8	1984		1985		1986		Total (1954–1986)	.1986)
Expense & Person	Expense (¥Million)	Person	Expense (*Million)	Person	Expense (*Million)	Person	Expense (#Million)	Person	Expense (*Million)	Person	Expense (FMillion)	Person
Type of Cooperation												
1. Trainees	8,383	3,858	9,469	4,363	11,494 (16.1%)	5,165	12,779 (16.9%)	5,549	13,631 (17.2%)	6,015	107,555 (16.2%)	67,179
2. Experts	16,018 (26.5%)	1,470	16,842 (26.2%)	1,578	17,576 (24.5%)	1,774	19,033 (25.1%)	1,732	18,046 (22.9%)	1,979	166,947 (25.2%)	20,834
3. Survey Teams	19,219	4,454	21,104	4,914	21,592	5,189	21,976 (29.0%)	5,179	24,505	5,796	194,764 (29.4%)	48,977
4. Volunteers	3,609	441	4,146	521	4,657	677	5,726 (7.6%)	825	6,104 (7.7%)	822	50,483	7,248
5. Emigration	142 (0.2%)	357	153	217	112 (0.2%)	137	118 (0.2%)	134	175 (0.2%)	176	1,702	72,512
6. Equipment Supply	10,474 (17.4%)	1 -	10,071	·1	12,962 (18.1%)		12,392 (16.4%)		12,356 (15.6%)	1	117,259	1
7. Others	2,469 (4.1%)		2,635	ı	3,218 (4.5%)	1	3,546 (4.8%)	1	4,221	T S	24,562	1
Total	60,314 (100.0%)		64,420 (100.0%)		71,611 (100.0%)		75,670 (100.0%)		79,037		663,273 (100.0%)	

Fig. 2 Expenses for JICA's Technical Cooperation by Programme in Fiscal 1986

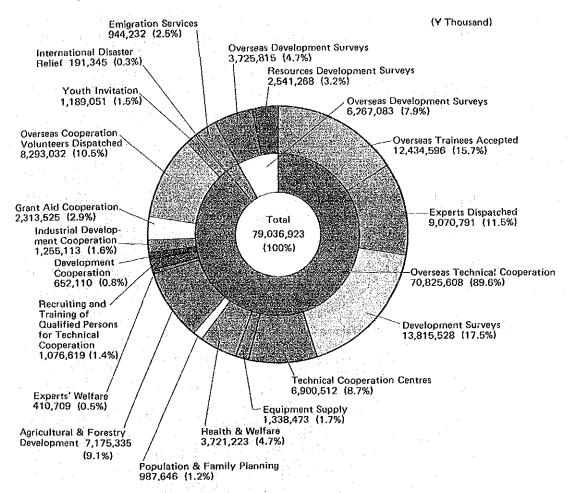
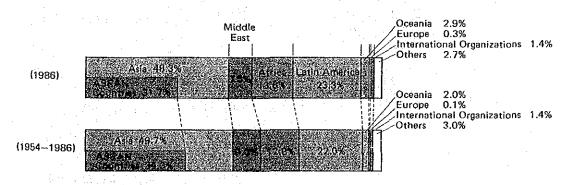


Fig. 3 Expenses for JICA's Technical Cooperation by Region in Fiscal 1986



#### 3. Overview of the Operations in Fiscal 1986

Training for Overseas Trainees: the number of trainees accepted in fiscal 1986 was 6,714 including those in training from the preceding year on.

Expert Dispatch: in fiscal 1986, the number of experts who served abroad reached 3,046 including those in service from the preceding year on.

Survey Team Dispatch: the number of survey team members dispatched in fiscal 1986 was 6,004 including those in service from the preceding year on.

The Japan Overseas Cooperation Volunteers Programme: in fiscal 1986, 822 new volunteers were sent overseas, and the total number with those in service from the preceding year on reached 2,410.

Equipment Supply: in fiscal 1986, ¥12,356 million worth of equipment was granted.

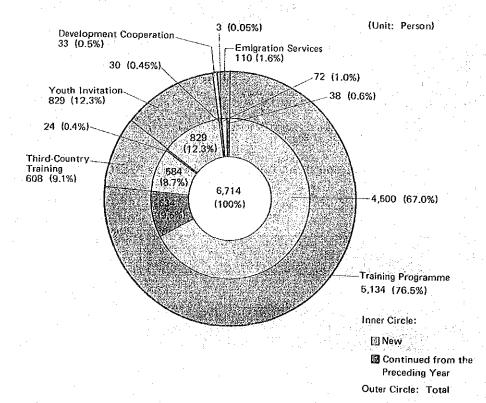


Fig. 4 Training Classified by Programme (1986)

Fig. 5 Experts Dispatched by Programme (1986)

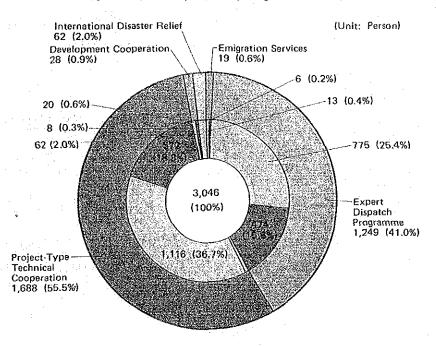


Fig. 6 Survey Teams Dispatched by Programme (1986)

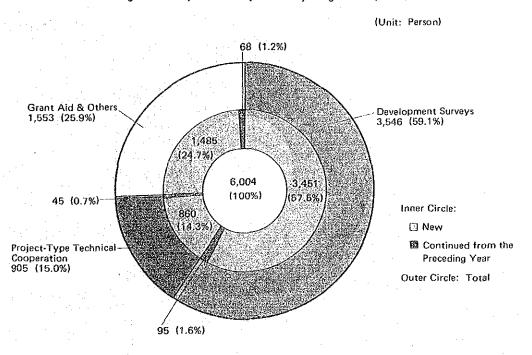


Fig. 7 Equipment Supply by Programme (1986)



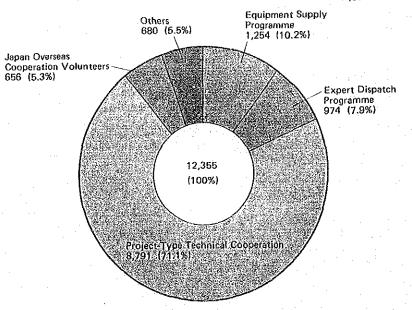
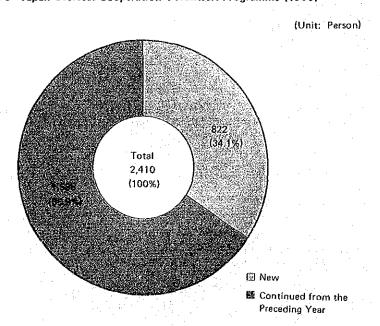


Fig. 8 Japan Overseas Cooperation Volunteers Programme (1986)



#### Part II

Performance of Japan International Cooperation Agency in Fiscal 1986

#### Chapter 1.

#### Government-Based Technical Cooperation

#### Section 1. Training Programme

#### 1. Outline

Japan has been providing courses for overseas trainces ever since it joined the Colombo Plan in 1954.

Two types of training are provided in Japan for them. One is Group Training, for which courses are organized according to the greatest common needs of developing countries. The number of courses of this type averages 200 each year. The other is Individual Training, for which courses are organized in accordance with specific requirements of a region or a country. The latter type includes the training of local counterparts of Japanese experts in Japan-assisted projects with a view to improving the efficiency of project implementation, as well as the training requested by United Nations and other international organizations. The trainees comprise mainly administrative officers, researchers and middle-level technicians from the public bodies and private sectors and are limited to those who have been recommended by the government concerned.

Curricula are prepared with due consideration given to the general needs of developing countries in the case of group training and to the specific needs in the case of individual training. Training is offered at ten centres operated by the Agency, and at other special training institutes with the cooperation of research and experiment stations of various government agencies, local bodies, universities, private enterprises, public corporations and others.

Besides training in Japan, JICA organizes training courses in other countries, contributing necessary funds. These are designed to provide training at the institutes abroad in collaboration with the host country for participants from neighbouring countries.

#### Performance in FY 1986

The number of trainees including project counterpart trainees accepted in fiscal 1986 was 6,714 (6,015\*), including those in training from the preceding year on, and the cumulative total accepted since 1954 has reached 67,179. Of the total number (6,714), 3,818 (56.9%) were from Asia, 1,297 (19.3%) from Latin

America, 580 (8.6%) from Africa, 529 (7.9%) from the Middle East, 249 (3.7%) from Oceania and Europe and 241 (3.6%) from international organizations. By country, 612 were from Thailand, 585 from Indonesia and 480 from the Philippines. Sector-wise, 1,541 (22.9%) were in public works and utilities, 1,230 (18.3%) in human resources development, and 1,173 (17.5%) in agriculture, forestry and fisheries. The performance of the training programme for participants in fiscal 1986 by country and sector is shown in the appendix.

Trainees from Malaysia have been accepted on the basis of her "Look East" policy. Malaysia is trying to learn the Japanese work ethic as well as technique and managerial skills. 132 trainees came to Japan in fiscal 1986 for a six-month training course. Various corporations received them so that they could learn the Japanese work ethic and attitude toward work in on-the-job training.

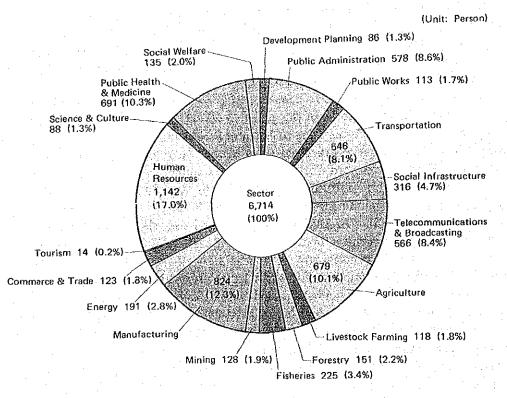
The Okinawa International Centre was set up in April 1985, under the ASEAN Human Resources Development Project launched in 1981. The Centre accepts trainees mainly from the ASEAN Countries, supporting the activities of human resources development centres in each of the ASEAN countries, and functions as a liaison office for these centres.

The Friendship Programme for the 21st Century aims at fostering friendly relationships between Japan and Asian and South Pacific countries with an eye to the 21st century. The Programme began in 1984 by inviting ASEAN youths to Japan annually for a period of five years, who will assume the responsibility of running their countries then, and offering them the opportunities to meet and exchange their views with the Japanese youths. In 1986 Burma, Fiji and Papua New Guinea joined the Programme. A total of 829 youths from six ASEAN countries, two countries from the South Pacific and Burma (youth leaders, working youths, civil servants, teachers, students and youths engaged in agriculture) participated in the programme in 1986.

\* The number in parenthesis shows trainees newly accepted in FY 1986.

Trainees are also accepted in the field of development cooperation and emigration.

Fig. 1 Number of Trainees Accepted by Sector and Region (1986)
(including those in training from the preceding year on)



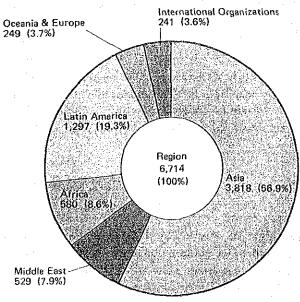
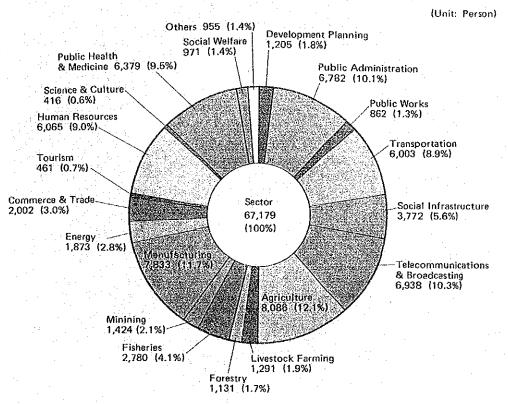
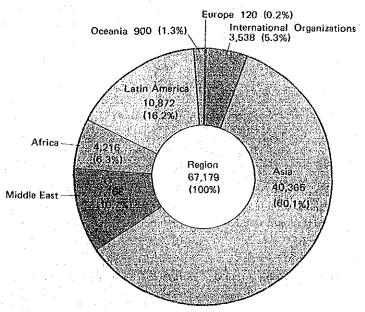


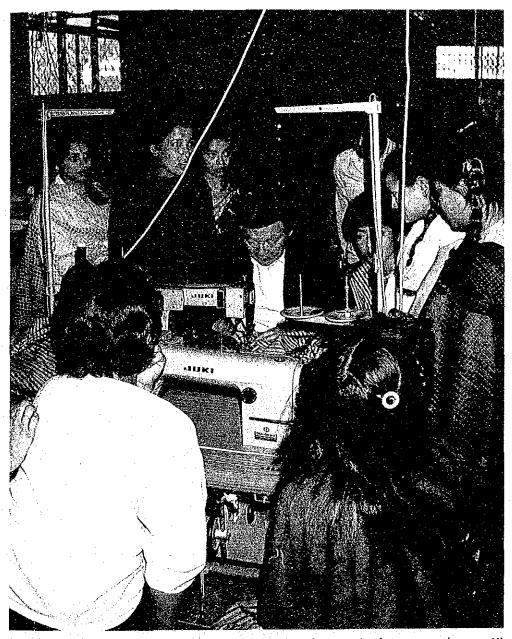
Fig. 2 Total Number of Trainees Accepted by Sector and Region (1954-1986)





(Person) 6,015 6,000 5,549 5,500 5,000 4,500 4,363 4,000 3,500 3,393 3,124 3,000 2,688 2,500 2,169 2,079 2,132 2,000 1,761 1,634 1,500 1,355 1,225 1,000 835 856 657 722 753 500 311 184 '54 '55 1960 1965

Fig. 3 Number of Trainees Accepted by Year (1954-1986)



Expert Dispatch Programme: a Japanese expert in Nepal instructing how to sew dresses. His efforts serve for creating a new job opportunity in the home manufacturing industry

#### Section 2. Expert Dispatch Programme

#### 1. Outline

The expert dispatch programme has expanded year by year since 28 experts were sent to Southeast Asia in fiscal 1955, with its cumulative total reaching 10,509 by the end of fiscal 1986.

The experts dispatched from Japan are assigned mainly to government agencies, research and experiment stations, construction works, academic institutions, or training institutes of recipient countries to engage in planning, survey and research, providing guidance and instructions, and giving advice for development projects.

In selecting experts or engineers for assignment abroad, the Agency requests the related government organizations to recommend qualified persons or picks up qualified persons from among the candidates registered with the Agency. Those who have been selected are given orientation on local conditions and other related matters and are trained in foreign languages and specific technology before their departure for the assigned country.

The number of the recipient countries of experts has increased extending from Asia to the Middle East, Africa, Latin America and Oceania. These experts also work in joint research centres where Japanese and local researchers work together on problems of development, in various international organizations including the Southeast Asia Fisheries Development Centre whose secretariat is located in the suburbs of Bangkok, Thailand, and in various other places.

Besides this programme, experts are also sent for Project-type Technical Cooperation Programme described in Section 4, Development Survey Programme described in Section 5 and Development Cooperation Programme (Investment in and Financing of Development Projects) described in Chapter 4, though the number of experts assigned under the last programme is rather small. These programmes will be discussed under respective sections and chapters.

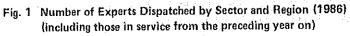
#### 2. Performance in 1986

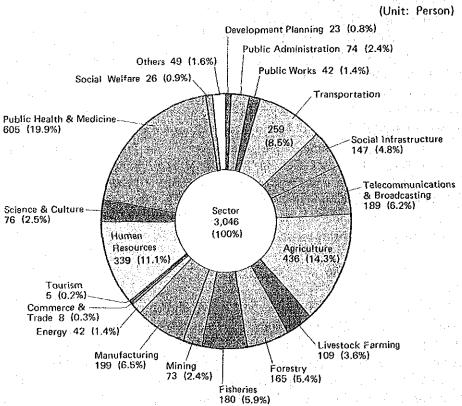
In 1986, the number of experts who served abroad reached 3,046 (1,979\*) and the cumulative total dispatched since 1953 has reached 20,834. By region, 1,725 (56.6%) experts were assigned to Asia, 620 (20.3%) to Latin America, 285 (9.4%) to Africa 197 (6.5%) to the Middle East, 94 (3.1%) to Oceania and Europe and 104 (3.4%) to international organizations. By country, 612 experts were assigned to Thailand, 585 to Indonesia, 480 to the Philippines and 353 to China. Sector-wise, public health and medicine accounted for 605 (19.9%) experts, agriculture 436

(14.3%) and human resources 339 (11.1%). Performance of the expert dispatch programme in fiscal 1986 by region, country and sector is shown in the appendix.

The number in parenthesis shows experts newly dispatched in FY 1986

In 1985 a new scientific and technological cooperation programme between Japan and ASEAN began in the fields of (i) biotechnology ii) microelectronics and (iii) material science through expert dispatch, acceptance of trainees, equipment supply and project-type technical cooperation. The Programme aims at promoting (a) research & development, (b) development of science and technology infrastructure and (c) technology transfer. In 1985–86, 27 trainees were accepted, 13 Japanese experts were dispatched and 8 Japanese missions visited the ASEAN countries to discuss the implementation of project-type cooperation.





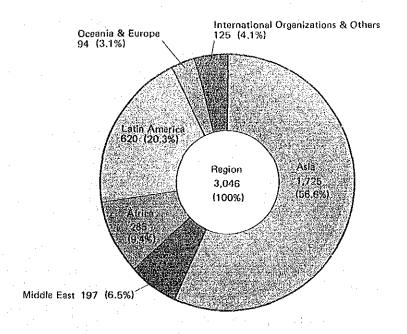
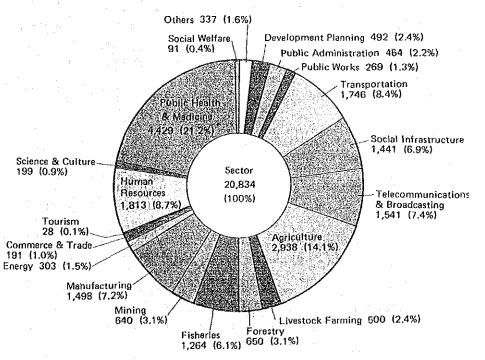


Fig. 2 Total Number of Experts Dispatched by Sector and Region (1955-1986)

(Unit: Person)



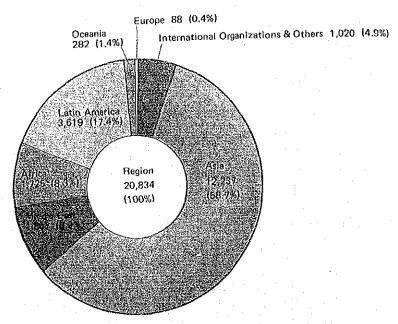
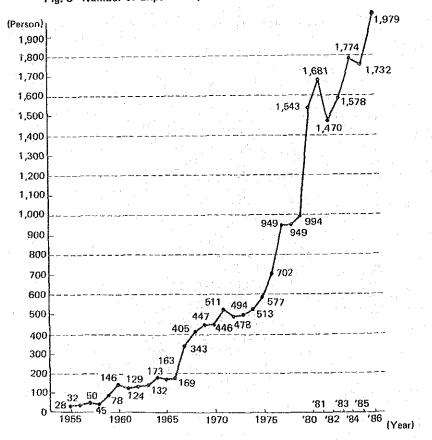


Fig. 3 Number of Experts Dispatched by Year (1955-1986)



#### Section 3. Equipment Supply Programme

#### 1. Outline

The equipment supply programme was initiated in 1964 as part of Japan's technical cooperation. The objective of the programme is to contribute to the economic and social progress of developing countries through supply of needed equipment at the request of the countries which, though acquired certain levels of technical skills and experiences, cannot carry out training of personnel and transfer and dissemination of technology effectively, or cannot utilize the existing technology efficiently for lack of appropriate equipment.

Principal equipment for the purpose includes, (1) that which makes more effective the work of the assigned experts described in Section 2, (2) that needed by the counterparts of the country concerned to continue their services after Japanese experts left, and (3) that needed by the repatriated trainees for using effectively their knowledge and skill gained in Japan. The programme is designed to increase the effectiveness of technical cooperation through, so to speak, an organic combination of man and equipment.

The equipment supplied under this programme has a wide range including agricultural instruments and machines, machine tools, textile machines, fishing equipment, refrigerated vans for marine products, electronic micro-scopes and telecommunications and broadcasting equipment.

The supply of equipment by the Agency is done not only under this programme but also under the Project-type Technical Cooperation Programme described in Section 4 and Japan Overseas Cooperation Volunteers Programme described in Chapter 3, which will be discussed in detail later.

#### 2. Performance in 1986

In 1986, ¥1,187 million worth of equipment was supplied in a total of 58 cases. By region, Asia accounted for 12 cases amounting to ¥297 million (25.0%), the Middle East 7 cases amounting to ¥212 million (17.9%), Africa 17 cases amounting to ¥344 million (29.0%), Latin America 14 cases amounting to ¥266 million (22.4%), Oceania 8 cases amounting to ¥68 million (5.7%).

Performance of Equipment Supply Programme in FY 1986

AREA COUNTRY	EQUIPMENT	EXPENSES (*Thousand)	FACILITIES
ASIA			
Bangladesh	Broadcasting Equipment	19,330	Radio Bangladesh
China	Agricultural Antibiotic Analysis Equipment	37,919	Shanghai Pesticide Research Institute
Indonesia	Job Training Equipment	34,544	National Atomic Energy Agency
Korea	Environment Sample Analysis Equipment	46,430	Yonsei University
Malaysia	Job Training Equipment	32,250	Ministry of Manpower
	Agricultural Research Equipment	43,436	Ministry of Agriculture, Fisheries & Natural
			Resources
Sri Lanka	Medical Equipment	9,379	Ministry of Woman's Affairs & Teaching Hospital
Thailand	Labour Security/Health Education Equipment	22,866	National Institute for the Improvement of
			Working Conditions and Environment
	Equipment for Royal Library	16,114	Department of Technical and Economic
			Cooperation
	Agricultural Extension equipment	1,480	Farmer's Training Centre
Vietnam	Agricultural Research Equipment	28,175	University of Cantho
	Medical Equipment	4,680	Red Cross Ho Chi Minh City
TOVE BIOGRA			
		•	
Egypt	Information Equipment	29,066	The Specialized National Councils
Jordan	Skill Training Equipment for the Physically.	47,497	Centre for Special Education
	Handicapped		
	Job Training Equipment	34,562	Wadi Seer Training Centre UNRWA
Syria	Broadcasting Equipment	38,677	Scientific Studies and Research Centre
Turkey	Air Pollution Monitoring Equipment	29,036	Environment Ataturk Bulvari
-	Labour Security & Accident Prevention	31,780	Industrial Health and Safety Institute
	Equipment		
	Computer System Equipment	1,177	Faculty of Veterinary Medicine Ankara

	AREA COUNTRY	EQUIPMENT	EXPENSES (¥Thousand)	FACILITIES
	AFRICA			
	Burkina Faso	Broadcasting Equipment	44,202	Ministry of Information and Culture
	Comoros	Fisheries Training Equipment	13,485	Ministry of Industrial Development
	Djibouti	Vaccination Van	8,240	Ministry of Public Welfare
	Ethiopia	Harbour Work Equipment	5,100	Marine Transport Authority
	Gabon	Broadcasting Equipment	32,510	Ministry of Information and Postal Services
	Guinea	Fisheries Centre Equipment	20,045	Centre Motorization Project
	Ivory Coast	Medical Equipment (for Third Country	28,500	Treichville Hospital, Abidjan University
		Training)		
	Malawi	Medical Equipment	26,284	Queen Elizabeth Central Hospital
	Mauritius	Fisheries Research Equipment	5,386	Ministry of Agriculture, Fisheries & Natural
				Resources
	Nigeria	Audio-Visual Training Equipment	36,415	Centre for Management Development
	Senegal	Fisheries Training Equipment	18,577	National School of Maritime Formation
	÷ .	Botanical Equipment	8,320	Ministry of Protection of Nature
	Somalia	Marine Products Refrigerating Equipment	603	Ministry of Fisheries & Marine Resources
	Tanzania	South-Shore Road Construction Equipment	55,575	Ministry of Communication and Works
		Crime Prevention Information Equipment	7,316	Ministry of Home Affairs
	Zambia	Rice Farming Equipment	29,133	Department of Agriculture
		Wildlife Research Equipment	4.661	National Parks and Wildlife Service
	LATIN AMERICA	CA		
	Argentina	Livestock Virus Research Equipment	47,200	University of La Plata
2	Bolivia	Job Training Equipment	31,972	National Vocational School
	Brazil	Medical Equipment	24,165	Amazonia Hospital
	Dominican	Broadcasting Equipment	32,744	Radio Television Dominicana/Presidencia
	Republic	Medical Equipment	3,396	Ministry of Health
	Ecuador	Ambulance	3,303	Ministry of Public Health-Vilcabamba Hospital
:	Guatemala	Repair Equipment	1,955	Guatemal-Teca Telecommunication Corporation
29				

AREA	EQUIPMENT	EXPENSES (¥Thousand)	FACILITIES
38	Teaching Equipment	099'9	Ministry of Education
Wexico Panama	Nuclear Magnetic Kesonance Equipment Cartographic Equipment	9,739	Research Institute of Sonora University National Geographical Institute
	Telecommunications Equipment	33,738	Institute for Telecommunications
Paraguay	Agricultural Research Equipment Bus for Student Council Activities	38,567 9,512	National Agronomic Research Institute (IAN) National University of Asuncion
St. Vincent	Ambulance	6,918	Ministry of Education and Health
OCEANIA		•	
Ë	Telecommunications Equipment	4,242	Post & Telecommunications Department
Palau	Sea Turtle Culture Equipment	17,416	Micronesian Mariculture Demonstration Centre
	Disaster Prevention Equipment	4,771	Palau Disaster Control Office
Papua New Guinea	Materials Testing Equipment	15,725	Department of Works
Tonga	Science/Mathematics Teaching Equipment	10,850	Ministry of Education
	Environment Pollution Monitoring	2,220	Ministry of Agriculture, Forestry and Fisheries
Vanuatu	Agricultural Extension Equipment	8,685	Department of Agriculture
Western Samoa	Education Promotion Equipment	4,235	Department of Education

Fig. 1 Equipment Supply by Region (1986)

(Unit: ¥ Million)

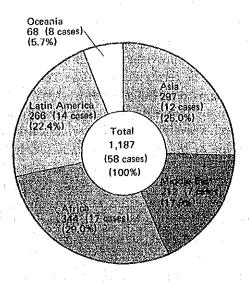
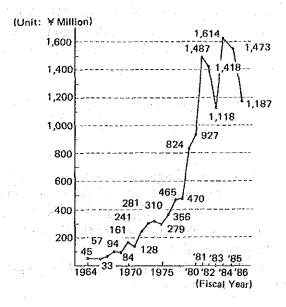


Fig. 2 Equipment Supply by Year



## Section 4. Project-Type Technical Cooperation Programme

The form of technical cooperation includes "Acceptance of Trainees," "Dispatch of Experts" and "Supply of Equipment and Materials" as described in Sections 1 through 3. The Agency provides these three forms of technical cooperation singly or in combination. The term "Project-type Technical Cooperation" as used by the Agency means integrated technical cooperation from planning to implementation, which combines these three forms in a development project and is carried out systematically and comprehensively in the country concerned.

Under the programme of this type, the Agency provides technical cooperation through the dispatch of survey teams, assignment of experts, supply of equipment and materials and acceptance of counterparts related to planning of project, selection of project site, preliminary survey, preparations, implementation, and follow-up evaluation after completion of the project in order to insure effective cooperation.

The counterparts are accepted under the training programme described in Section 1.

In implementing such a project the recipient country provides land and buildings and manages the project, as a rule. There has been increasing cases in recent years in which construction of facilities for the project is also covered by grant aid provided by Japan. Through such an organic combination of technical and financial cooperation, a greater effect can be expected.

The Project-type Technical Cooperation being implemented by the Agency includes (1) Technical Cooperation Centre Programme, (2) Health and Medical Cooperation Programme, (3) Population and Family Planning Cooperation Programme, (4) Agricultural, Forestry and Fisheries Cooperation Programme and (5) Industrial Development Cooperation Programme.

## (1) Technical Cooperation Centre Programme

#### 1. Outline

Technical Cooperation Centres are designed to train and upgrade engineers and skilled workers whose services are essential for the socio-economic progress of developing countries and they can be broadly classified as follows:

- (1) Cooperation in the development of manpower resources aimed at upgrading engineers and skilled workers
- (2) Cooperation in research and development and in experimental works involving tests for practical application

(3) Cooperation in development and improvement of production techniques

(4) Cooperation in vocational training

However, some centres do not come under any of these categories but have multiple functions.

#### 2. Performance in 1986

In 1986, this programme covered a total of 57 centres; centres (15) under preliminary survey, ongoing centres (36), aftercare services (3) and other services (3). (See the Performance of Technical Cooperation Centre Programme in Fiscal 1986).

Meanwhile, the Agency dispatched 59 survey teams and 526 experts to centres and accepted 180 counterparts from them. In addition, training materials worth 2,668 million yen were supplied as part of the programme.

Performance of Technical Cooperation Centre Programme in Fiscal 1986

·
න
₽
٦.
TO.
t startec
in
•
U
. Ф
-
റ
~
$\bar{}$
~
project
٠.
O
rit
'n۲
each
ince
75
$\simeq$
⊆
•
S
10
74
Ŀ-
О
4
œ
-
0
ō
operations
o
g)
>
•
ب
લ
∍
õ
⊏
$\tilde{a}$
بر
*Cumulative
<u> </u>
•

			פוניס	rative operations	Cultiviative operations since each project statted
AREA	PROJECT	*EXPERT DISPATCH (Person)	*EQUIPMENT SUPPLY (*Thousand)	*COUNTER- PART (Person)	DURATION
ASIA					
China	The Enterprise Management Training Centre	42	204,096	19	83.10.11 ~ 88.10.10
	The Beijing Telecommunications Training Centre	26	5,240	4	86. 2. 5 $\sim$ 91. 2. 4
Indonesia	The Sumatra Chemical Industry Training and	3.5	276,710	17	$81.11.19 \sim 29.5.18$
	Development Centre				
	The Volcanic Sabo Technical Centre	52	408,802	18	82. 8.26 ~ 87. 8.25
	The Centre for Vocational and Extension Service	32	99,721	57	83, 2,16 ~ 88, 2,15
	Training (ASEAN Human Resources Development				
	Project)	. •			
	The Radio & TV Broadcasting Training Centre	21	259,760	18	83.10.21 ~ 88.10.20
	The Telephone Outside Plant Maintenance and	10	6,260	v	86. 4. $1 \sim 90.3.31$
	Training Centre				
	The Project on Characterization of Polymeric			. •	$(86.4 \sim 91.3)$
	Materials				
Korea	The Industrial Technology Training Centre	13	367,879	က	86. 4.18 ~ 91. 4.17
Malaysia	The Centre for Instructor and Advanced Skill	37	90,901	47	82. 8.20 ~ 87. 8.19
	Training (CIAST) (ASEAN Human Resources		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Development Project)	.:			
	The National Computer Training Centre	25	367,561	œ	85.11.13 ~ 90.11.12
Pakistan	The Construction Machinery Training Centre	7	10,062	<b>v</b>	85. 4.29 ~ 90. 4.28
Philippines	The Telecommunications Training Institute	26	524,722	21	81. 4. 2 ~ 86.10. 1
	The Integrated Research and Training Centre, TUP	40	273,979	12	82.11. 3 ~ 87.11. 2

AREA	PROJECT	*EXPERT DISPATCH	*EQUIPMENT SUPPLY	*COUNTER- PART	DURATION
COUNTRY		(Person)	(*Thousand)	(Person)	
Philippines	The Philippine Human Resources Development	64	130,577	77	82. 9. 9 ~ 87. 9. 8
	Centre, UL (ASEAN Human Resources Development	•			
	· Project)				
	The National Maritime Polytechnic Training Centre	7	13,611	10	85. 6.13 ~ 89. 6.12
Singapore	The Japan-Singapore Institute of Software Technology	25	254,812	2	86. 1.13 ~ 91. 1.12
	(Phase II)				
	The Productivity Development Project (ASEAN	133	6,319	132	83. 6.11 ~ 88. 6.10
	Human Resources Development Project)				
	The Japan-Singapore Technical Institute	20	342,889	14	83. 6.29 ~ 88. 6.28
Thailand	The Primary Health Care Training Centre (ASEAN	51	79,896	24	$82.10.1 \sim 87.9.30$
	Human Resources Development Project)				
	The Industrial Rehabilitation Centre	29	41,071	14	84, 2.23 ~ 89, 2.22
	The National Waterworks Technology Training	15	45,995	7	85.12. 1 ~ 90.11.30
	Institute		٠		
MIDDLE EAST			;		
Egypt	Textile Research and Development	00	200,650	œ	80.11.7 ~ 90. 3.31
	The Cairo Transport Authority Tramcar Training	12	330,259	15	82. 6. 1 ~ 86. 6.12
	Centre				
Jordan	The Electric Power Training Centre	6	91,870	ĸ	86. 3. 1 $\sim$ 91. 2.28
Saudi Arabia	The Riyadh Electronic Technical Institute	7		н	74. 6.12 ~ up to
					operation

The Jomo Kenyatta College of Agriculture and   110   465,849   93   80, 4.19 ~					
The Jomo Kenyatta College of Agriculture and 110 465,849 93 80. 4.19 ~ 1 Technology The Japan-Senegal Vocational Training Centre 16 74,851 21 84. 2. 4 ~ 1 The Japan-Senegal Vocational Training Centre 12 274,541 6 85.11.28 ~ Institute for Mineral Ore, University of San 31 283,388 12 82. 5.20 ~ Andres The Institute for Mineral Ore, University of San 31 283,388 12 82. 5.20 ~ Andres The Institute for Mineral Ore, University of San 31 283,388 12 82. 5.20 ~ Andres The Institute for Mineral Ore, University of San 485,192 25 84. 7. 1 ~ The Port Hydraulis Centre 24 486,192 25 82. 4, 1 ~ The Port Hydraulis Centre 28 495,790 16 82. 8.26 ~ The San ATI South Zonal Vocational Training Centre 28 495,790 16 82. 8.26 ~ The Japan-Peru Earthquake and Disaster Mitigation 8 5,218 4 86. 6.26 ~ Research Centre	AREA COUNTRY	PROJECT	*EXPERT DISPATCH (Person)		
The Jomo Kenyatra College of Agriculture and rechnology       110       465,849       93       80, 4.19 ~ 8.2. 4 ~ 8.2. 4 ~ 74,851         Technology       12       274,541       6       85,11.28 ~ 82. 5.20 ~ 82.	AFRICA				
The Japan-Senegal Vocational Training Centre       16       74,851       21       84, 2, 4 ~         The National Railway Training Centre       12       274,541       6       85.11.28 ~         Institute for Mineral Ore, University of San       31       283,388       12       82, 5.20 ~         Institute for Mineral Ore, University of San       11       231,166       6       85. 3, 6 ~         In Institute for Mineral Ore, University of San       11       231,166       6       85. 3, 6 ~         In Expirite Santo/SENAI       11       231,166       6       85. 3, 6 ~         In Expirite Santo/SENAI       11       300,081       5       82, 4, 1 ~         In Port Hydraulic Centre       11       300,081       5       84, 7, 1 ~         In Port Hydraulic Centre       28       495,790       16       84, 5.31 ~         In Earthquake and Disaster Mitigation       8       5,218       4       86, 6.26 ~	Kenya	The Jomo Kenyatta College of Agriculture and Technology	110	:	80, 4,19 ~ 88, 4,18
The National Railway Training Centre       12       274,541       6       85,11.28       82, 5.20         Andres       31       283,388       12       82, 5.20       82, 5.20         Andres       11       231,166       6       85, 3, 6         F Espirito Santo/SENAI       24       486,192       25       82, 4, 1         The Mexico-Japan Technological Education Centre       24       486,192       25       82, 4, 1         The Port Hydraulic Centre       11       300,081       5       84, 7, 1         The Port Hydraulic Centre       28       495,790       16       82, 8.26         The Port Hydraulic Centre       28       495,790       16       82, 8.26         The Panama-Japan Vocational Training       16       369,669       9       84, 5.31         The Japan-Peru Earthquake and Disaster Mitigation       8       5,218       4       86, 6.26	Senegal	The Japan-Senegal Vocational Training Centre	16		89. 2.
The National Railway Training Centre   12   274,541   6   85.11.28   231,11.28   283,388   12   283,388   12   2.5.20	ATIN AMER	иса			
Andres  Andres  Andres  The Industrial Instrumentation Technology Centre  of Espirito Santo/SENAI  The Mexico-Japan Technological Education Centre  The Port Hydraulic Centre  The Panama-Japan Vocational Training Centre  The SENATI South Zonal Vocational Training  Centre  The Japan-Peru Earthquake and Disaster Mitigation  Research Centre  The Japan-Peru Earthquake and Disaster Mitigation  Research Centre	Argentina	The National Railway Training Centre	12	274,541 6	85.11.28 ~ 90.11.27
Andres         The Industrial Instrumentation Technology Centre       11       231,166       6       85, 3, 6 ~         of Espirito Santo/SENAI       24       486,192       25       82, 4, 1 ~         The Mexico-Japan Technological Education Centre       11       300,081       5       84, 7, 1 ~         The Port Hydraulic Centre       11       300,081       5       84, 7, 1 ~         The Panama-Japan Vocational Training Centre       16       82, 8.26 ~         The SENATI South Zonal Vocational Training       16       369,669       9       84, 5.31 ~         Centre       The Japan-Peru Earthquake and Disaster Mitigation       8       5,218       4       86, 6.26 ~         Research Centre       Research Centre       8       6.26 ~	Bolivia	Institute for Mineral Ore, University of San	31		82. 5.20 ~ 87. 5.19
The Industrial Instrumentation Technology Centre 11 231,166 6 85. 3, 6 ~ of Espirito Santo/SENAI  The Mexico-Japan Technological Education Centre 24 486,192 25 82. 4, 1 ~ 300,081 5 84. 7, 1 ~ The Port Hydraulic Centre 28 495,790 16 82. 8.26 ~ The SENATI South Zonal Vocational Training Centre 16 369,669 9 84. 5.31 ~ Centre The Japan-Peru Earthquake and Disaster Mitigation 8 5,218 4 86. 6.26 ~ Research Centre		Andres			
of Espirito Sanco/SENAI         The Mexico-Japan Technological Education Centre       24       486,192       25       82, 4, 1         The Port Hydraulic Centre       11       300,081       5       84, 7, 1         The Panama-Japan Vocational Training Centre       28       495,790       16       82, 8.26         The SENATI South Zonal Vocational Training       16       369,669       9       84, 5.31         Centre       The Japan-Peru Earthquake and Disaster Mitigation       8       5,218       4       86, 6.26	Brazil	The Industrial Instrumentation Technology Centre	11	231,166 6	3, 6 ~ 90, 3.
The Mexico-Japan Technological Education Centre       24       486,192       25       82, 4, 1         The Port Hydraulic Centre       11       300,081       5       84, 7, 1         The Panama-Japan Vocational Training       16       495,790       16       82, 8.26         The SENATI South Zonal Vocational Training       16       369,669       9       84, 5.31         Centre       The Japan-Peru Earthquake and Disaster Mitigation       8       5,218       4       86, 6.26		of Espirito Santo/SENAI			
The Port Hydraulic Centre       11       300,081       5       84. 7, 1         The Panama-Japan Vocational Training Centre       28       495,790       16       82, 8.26         The SENATI South Zonal Vocational Training       16       369,669       9       84, 5.31         Centre       The Japan-Peru Earthquake and Disaster Mitigation       8       5,218       4       86, 6.26	Wexico	The Mexico-Japan Technological Education Centre	24		4, 1 ~
The Panama-Japan Vocational Training Centre 28 495,790 16 82, 8.26 ~  The SENATI South Zonal Vocational Training 16 369,669 9 84, 5.31 ~  Centre  The Japan-Peru Earthquake and Disaster Mitigation 8 5,218 4 86, 6.26 ~  Research Centre		The Port Hydraulic Centre	11		7. $1 \sim 88$ .
The SENATI South Zonal Vocational Training 16 369,669 9 84. 5.31 ~ Centre  The Japan-Peru Earthquake and Disaster Mitigation 8 5,218 4 86. 6.26 ~ Research Centre	Panama	The Panama-Japan Vocational Training Centre	28		8.26 ~ 89.
Sarthquake and Disaster Mitigation 8 5,218 4 86. 6.26 $\sim$	Peru	The SENATI South Zonal Vocational Training	.16	369,669	84. 5.31 ~ 89. 5.30
Earthquake and Disaster Mitigation 8 5,218 4 86. 6.26 $\sim$		Centre			
Research Centre		The Japan-Peru Earthquake and Disaster Mitigation	80	5,218 4	86, 6.26 ~ 91, 6:25
		Research Centre			

## (2) Health and Medical Cooperation Programme

#### 1. Outline

This Programme is designed to offer medical cooperation to developing countries suffering from epidemic and endemic diseases through training of medical students, prevention and research of tropical diseases, and expansion and improvement of medical facilities. The programme also emphasizes the cooperation for the welfare of the citizens in these countries, through the improvement of public hygiene and environment.

#### 2. Performance in 1986

In 1986, cooperation was offered to a total of 48 projects; projects (4) under preliminary survey, ongoing projects (32), aftercare services (6) and other services (1). (See the list of Performance of Health and Medical Cooperation Programme in Fiscal 1986).

Meanwhile, 36 survey teams were dispatched to the projects now under cooperation for the purpose of providing guidance and advice for project planning, including preliminary survey for the study of feasibility of cooperation in the future.

In addition, 421 experts were sent overseas and 110 counterparts were accepted. Equipment amounting to 1,444 million yen was supplied as part of this programme.

Performance of Health and Medical Cooperation Programme in Fiscal 1986

\*Cumulative operations since each project started

PROJECT   PART   PECUINFRA   PART   PART								
Gastroenterology Services Improvement         19         109,970         14         84.11. 1 ~ 88.1           Research on Teatment of Infections Diseases of the Alimentary System         18         15,196         3         86.3. 1 ~ 90.           the Alimentary System         18         15,196         3         86.3. 1 ~ 90.           The China-Japa Friendship Hospital         84         55,348         148         81.11.19 ~ 89.1           The China-Japa Friendship Hospital         10         28         92,506         13         86.11.25 ~ 91.1           Japanese Encephalitis Vaccine Production         84         379,862         28         82.3.12 ~ 87.1           Promotion of Health in North Sumara         84         379,862         28         83.4.1 ~ 89.           Promotion of Health in North Sumara         64         326,457         9         84.8.1 ~ 89.           Tribhuwan University Medical Education         64         326,457         19         86.70.0 ~ 88.           The Children Hospital Islamabad         13         46,783         18         80.10.17 ~ 88.           The Food and Drugs Laboratories Project         10         350,845         18         80.10.17 ~ 89.           The National Institute of Health         18         40,065         12         86.418 ~ 90. </th <th>AREA</th> <th>PROJECT</th> <th>*EXP DISPA</th> <th></th> <th></th> <th>COUNTER- PART (Person)</th> <th> <b>()</b></th> <th>OURATION</th>	AREA	PROJECT	*EXP DISPA			COUNTER- PART (Person)	<b>()</b>	OURATION
Gastnoenterology Stavioes Improvement         19         109,970         14         84-11.1         88.1           Research on Treatment of Infections Diseases of the Alimentary System         18         15,196         3         86.3.1         90.2           the Alimentary System         The China-Japan Friendship Hospital         84         55,348         148         81.11.19         89.1           The China-Japan Friendship Hospital         10         28         92,506         13         86.11.25         91.1           The China Rehabilitation Research Contrel         10         84         379,862         28         78.4         1         86.11.25         91.1         89.11.25         91.1         88.1         88.1         88.1         88.1         88.1         88.1         88.1         88.1         90.2         71.1         91.1         91.1         91.1         91.1         91.1         91.1         91.1         91.1         91.1         91.1         91.1         91.1         91.1         91.1         91.2         92.1         92.1         92.1         93.2         93.2         93.2         93.2         93.2         93.2         93.2         93.2         93.2         93.2         93.2         93.2         93.2         93.2	ASIA							
Research on Treatment of Infections Diseases of the Alimentary System         18         15,196         3         86. 3. 1 ~ 90.           the Alimentary System         The China-Japan Friendship Hospital         84         55,348         148         81,11.19 ~ 89.1           The China-Japan Friendship Hospital         10         28         13         86.11.25 ~ 91.1           Japanese Encephalitis ton Research Centre         10         84         379,862         28         78. 4. 1 ~ 89.           Promotion of Health in North Sumarra         84         379,862         28         78. 4. 1 ~ 89.           Drug Quality Control         84         379,862         28         78. 4. 1 ~ 89.           Maternal and Child Health         26         238,514         9         84. 8. 1 ~ 89.           Trib huvan University Medical Education         64         326,457         19         86. 7. 1 ~ 91.           The Children Hospital         13         46,783         4         86. 7. 1 ~ 90.           The Institute for Tyopical Medicine         40,065         12         86. 7. 1 ~ 90.           The Sood and Drugs Laboratories Project         10         46,783         4         86. 7. 1 ~ 90.           The National Institute of Health         26         46,783         4         86. 7. 1 ~ 80	Burma	Gastroenterology Services Improvement	13		026	14	84.11.	}
the Alimentary System  The China-Japan Friendship Hospital  Tribhuvan University Medical Education  64 326,457 19 80. 6.20 ~ 88.  The Children Hospital Islamabad  The Children Hospital Islamabad  The Toxinital Hospital  The Shi Jayewardency Level Hospital  The Shi Jayewardency Pediatric Hospital  The Cairo University Pediatric Hospital  The Chartoum Training Hospital  46 95,375 11 88.  The Khartoum Training Hospital  68 39. 11 ~ 88.  The The Khartoun Training Hospital  88 39. 11 ~ 88.		Research on Treatment of Infections Diseases of	18		,196.	က	86. 3	-4
The China-Japan Friendship Hospital         84         55,348         148         81.11.19 ~ 89.1           The China Rehabilitation Research Centre         10         5,348         148         81.1.25 ~ 91.1           Japanese Encephalist's Vaccine Production         28         78.4 1 ~ 89.         87.312 ~ 87.           Promotion of Health in North Sumarra         84         379,862         28         78.4 1 ~ 89.           Drug Quality Control         53         192,659         16         83.4 1 ~ 89.           Maternal and Child Health         26         238,514         9         84.8 1 ~ 89.           Tribhuvan University Medical Education         64         326,457         19         80.6.20 ~ 88.           The Children Hospital Islamabad         13         46,783         4         86.7.1 ~ 91.           The Institute for Tropical Medical Education         40         350,845         18         80.10.17 ~ 88.           The Stri Jayewardencipura General Hospital         26         46,783         4         86.7.1 ~ 90.           The National Institute of Health         26         46,783         4         86.7.1 ~ 90.           The National Institute of Health         34         219,505         12         85.8.1 ~ 90.           The Cairo University Pediatric Hospita		the Alimentary System				-		
The China Rehabilitation Research Contre         10         5         86.11.25 ~ 91.1           Japanese Encephalitis Vaccine Production         28         92.506         13         82. 3.12 ~ 87.           Promotion of Health in North Sumatra         84         379,862         28         78. 4. 1 ~ 89.           Drug Quality Control         53         192,659         16         83. 4. 1 ~ 88.           Drug Quality Control         26         238,514         9         84. 81. 7 ~ 89.           Tribhuvan University Medical Education         64         326,457         19         86. 20. ~ 88.           Tribhuvan University Medical Education         40         356,845         18         80. 5.20 ~ 88.           The Children Hospital Islamabad         40         356,845         18         80. 10.7 ~ 88.           The Institute for Tropical Medicine         40         356,845         18         80. 10.7 ~ 88.           The Sni Jayewardencpura General Hospital         26         46,783         4         86. 7.1 ~ 90.           The National Institute of Health         34         219,505         22         80. 8. 1 ~ 87.           Nursing Education         34         219,505         22         80. 8. 1 ~ 90.           The Khartoum Training Hospital         6	China	The China-Japan Friendship Hospital	8	-	,348	148	81.11	₹.
Japanese Encephalitis Vaccine Production         28         92,506         13         82. 3.12 ~ 87.           Promotion of Health in North Sumatra         84         379,862         28         78. 4. 1 ~ 89.           Drug Quality Control         53         192,659         16         83. 4. 1 ~ 89.           Maternal and Child Health         26         238,514         9         84. 8. 1 ~ 89.           Tribhuvan University Medical Education         64         326,457         19         80.520 ~ 88.           The Children Hospital Islamabad         40         350,845         18         80.10.17 ~ 89.           The Institute for Tropical Medicine         40         350,845         18         80.10.17 ~ 88.           The Food and Drugs Laboratories Project         10         46,783         4         86. 7.1 ~ 90.           The Shi Jayewardenopura General Hospital         26         40,065         12         86. 4.18 ~ 90.           The National Institute of Health         26         40,065         12         86. 4.18 ~ 90.           Nursing Education         34         219,505         22         80. 8. 1 ~ 87.           The Khartoum Training Hospital         6         83. 7. 1 ~ 88.           The Khartoum Fraining Hospital         6         83. 9. 1 ~ 89.		The China Rehabilitation Research Centre	); ;			vo Vo	86.11	
Promotion of Health in North Sumarra         84         379,862         28         78. 4. 1 ~ 89.           Drug Quality Control         53         192,659         16         83. 4. 1 ~ 89.           Maternal and Child Health         26         238,514         9         84. 8. 1 ~ 89.           Tribhuvan University Medical Education         64         326,457         19         80. 6.20 ~ 88.           The Children Hospital Islamabad         40         350,845         18         80.10.17 ~ 88.           The Institute for Tropical Medicine         40         350,845         18         80.10.17 ~ 88.           The Food and Drugs Laboratories Project         10         46,783         4         86. 4.18 ~ 90.           The Sri Jayewardencpura General Hospital         26         40,065         12         85. 8. 1 ~ 90.           The National Institute of Health         34         219,505         22         80. 8. 1 ~ 87.           Nursing Education         34         219,505         22         80. 8. 1 ~ 87.           The Khartoum Training Hospital         6         85. 4. 1 ~ 90.           The Khartoum Training Hospital         6         83. 9. 1 ~ 88.           The Beneficies Control         6         83. 9. 1 ~ 89.	India	Japanese Encephalitis Vaccine Production	38		,506	13		
Drug Quality Control         53         192,659         16         83, 4, 1 ~ 88.           Maternal and Child Health         26         238,514         9         84. 8. 1 ~ 89.           Tribhuvan University Medical Education         64         326,457         19         80. 6.20 ~ 88.           The Children Hospital Islamabad         13         4         86. 7. 1 ~ 91.           The Institute for Tropical Medicine         40         350,845         18         80.10.17 ~ 88.           The Sri Jayewardencjura General Hospital         2         46,783         4         86. 4.18 ~ 90.           The Sri Jayewardencjura General Hospital         26         40,065         12         85. 8. 1 ~ 90.           The National Institute of Health         34         219,505         22         80. 8. 1 ~ 90.           Nursing Education         34         219,505         22         80. 8. 1 ~ 87.           The Cairo University Pediatric Hospital         6         95,375         14         83. 7. 1 ~ 88.           The Khartoum Training Hospital         6         83. 9. 1 ~ 88.         9. 1 ~ 88.         9. 1 ~ 88.	Indonesia	Promotion of Health in North Sumatra	, <del>c</del> o		,862	28		` .⊣
Maternal and Child Health       26       238,514       9       84. 8. 1 ~ 89.         Tribhuvan University Medical Education       64       326,457       19       80. 6.20 ~ 88.         The Children Hospital Islamabad       13       46.73       4       86. 7. 1 ~ 91.         The Institute for Tropical Medicine       40       350,845       18       80.10.17 ~ 88.         The Food and Drugs Laboratories Project       10       46,783       4       86. 7.25 ~ 90.         The Sri Jayewardencpura General Hospital       26       46,783       4       86. 4.18 ~ 90.         The National Institute of Health       26       40,065       12       85. 8. 1 ~ 90.         Nursing Education       34       219,505       22       80. 8. 1 ~ 87.         The Cairo University Pediatric Hospital       6       33,217       6       85. 4. 1 ~ 90.         The Khartoum Training Hospital       6       85. 4. 1 ~ 90.       7. 1 ~ 88.         Tuberculosis Concrol       6       83. 9. 1 ~ 89.       7. 1 ~ 88.		Drug Quality Control	'n		629	16	83. 4	
Tribhuvan University Medical Education       64       326,457       19       80.6.20 ~ 88.         The Children Hospiral Islamabad       13       4       86.7.1 ~ 91.         The Institute for Tropical Medicine       40       350,845       18       80.10.17 ~ 88.         The Food and Drugs Laboratories Project       10       46,783       4       86.7.18 ~ 90.         The Sri Jayewardencpura General Hospital       26       46,783       4       86.4.18 ~ 90.         The National Institute of Health       34       219,505       12       85.8.1 ~ 90.         Nursing Education       34       219,505       22       80.8.1 ~ 87.         The Cairo University Pediatric Hospital       6       95,375       14       83.7.1 ~ 88.         The Khartoum Training Hospital       6       83.9.1 ~ 88.       90.1 ~ 88.	Korea	Maternal and Child Health	36		,514	σ.		₹.
The Children Hospital Islamabad       13       4       86. 7. 1 ~ 91.         The Institute for Tropical Medicine       40       350,845       18       80.10.17 ~ 88.         The Food and Drugs Laboratories Project       10       46,783       4       86. 7.25 ~ 90.         The Sti Jayewardencpura General Hospital       26       46,783       4       86. 4.18 ~ 90.         The Sti Jayewardencpura General Hospital       34       219,505       22       85. 8. 1 ~ 90.         Nursing Education       34       219,505       22       80. 8. 1 ~ 87.         The Cairo University Pediatric Hospital       46       95,375       14       83. 7. 1 ~ 88.         The Khartoum Training Hospital       6       85. 4. 1 ~ 90.         Tuberculosis Control       6       83. 9. 1 ~ 88.       88. 9. 1 ~ 88.	Nepal	Tribhuvan University Medical Education	79		,457	19		1
The Institute for Tropical Medicine       40       350,845       18       80.10.17 ~ 88.         The Food and Drugs Laboratories Project       10       46,783       4       86. 7.25 ~ 90.         The Sri Jayewardencpura General Hospital       26       46,783       4       86. 4.18 ~ 90.         The National Institute of Health       34       219,505       22       80. 8. 1 ~ 87.         Nursing Education       34       219,505       22       80. 8. 1 ~ 87.         The Cairo University Pediatric Hospital       46       95,375       14       83. 7. 1 ~ 88.         The Khartoum Training Hospital       6       33,217       6       85. 4. 1 ~ 90.         Tuberculosis Control       6       83. 9. 1 ~ 88.	Pakistan	The Children Hospital Islamabad	H			4	86. 7	ŧ
The Food and Drugs Laboratories Project       10       3       86. 7.25 ~ 90.         The Sri Jayewardencpura General Hospital       26       46,783       4       86. 4.18 ~ 90.         The National Institute of Health       26       40,065       12       85. 8. 1 ~ 90.         Nursing Education       34       219,505       22       80. 8. 1 ~ 87.         The Cairo University Pediatric Hospital       46       95,375       14       83. 7. 1 ~ 88.         The Khartoum Training Hospital       6       33,217       6       85. 4. 1 ~ 90.         Tuberculosis Control       6       83. 9. 1 ~ 88.       83. 9. 1 ~ 88.	Philippines	The Institute for Tropical Medicine	4		,845	18	80.10	₹
The Sri Jayewardenceura General Hospital       2       46,783       4       86. 4.18 ~ 90.         The National Institute of Health       26       40,065       12       85. 8. 1 ~ 90.         Nursing Education       34       219,505       22       80. 8. 1 ~ 87.         The Cairo University Pediatric Hospital       46       95,375       14       83. 7. 1 ~ 88.         The Khartoum Training Hospital       6       33,217       6       85. 4. 1 ~ 90.         Tuberculosis Control       6       83. 9. 1 ~ 88.       83. 9. 1 ~ 88.		The Food and Drugs Laboratories Project	ĭ			m		ł
The National Institute of Health       26       40,065       12       85. 8. 1 ~ 90.         Nursing Education       34       219,505       22       80. 8. 1 ~ 87.         The Cairo University Pediatric Hospital       46       95,375       14       83. 7. 1 ~ 88.         The Khartoum Training Hospital       6       33,217       6       85. 4. 1 ~ 90.         Tuberculosis Control       15       118,004       6       83. 9. 1 ~ 88.	Sri Lanka	The Sri Jayewardencpura General Hospital			,783	4		ł
Nursing Education       34       219,505       22       80. 8. 1 ~ 87.         The Cairo University Pediatric Hospital       46       95,375       14       83. 7. 1 ~ 88.         The Khartoum Training Hospital       6       33,217       6       85. 4. 1 ~ 90.         Tuberculosis Control       15       118,004       6       83. 9. 1 ~ 88.	Thailand	The National Institute of Health	2		590,	12		₹ ₩
The Cairo University Pediatric Hospital 46 95,375 14 83. 7. 1 $\sim$ 88. The Khartoum Training Hospital 6 85. 4. 1 $\sim$ 90. Tuberculosis Control 83. 9. 1 $\sim$ 88.		Nursing Education	ñ		,505	22		<b>₹</b>
The Cairo University Pediatric Hospital 46 95,375 14 83. 7. 1 $\sim$ 88. The Khartoum Training Hospital 6 85. 4. 1 $\sim$ 90. Tuberculosis Control 6 83. 9. 1 $\sim$ 88.					•		. i	
The Cairo University Pediatric Hospital 46 95,375 14 83. 7. 1 $\sim$ 88. The Khartoum Training Hospital 6 85. 4. 1 $\sim$ 90. Tuberculosis Control 6 83. 9. 1 $\sim$ 88.	MIDDLE EAST						. *	
The Khartoum Training Hospital 6 33,217 6 85, 4, 1 $\sim$ 90. Tuberculosis Control 6 83, 9, 1 $\sim$ 88.	Egypt	The Cairo University Pediatric Hospital	₹	\$ 95	,375	14	83.	
Tuberculosis Control 6 83. 9, $1 \sim 88$ .	Sudan	The Khartoum Training Hospital		5 33	1,217	9	85.	1.
	Yemen	Tuberculosis Control	<del>,</del>	118	1,004	•		₹

AREA COUNTRY	PROJECT	*EXPERT DISPATCH (Person)	*EQUIPMENT SUPPLY (*Thousand)	*COUNTER- PART (Person)	DURATION
AFRICA					
Ghana	The Noguchi Memorial Institute Project	S		່ ຕາ	86.10, 1 ~ 91, 9.30
Kenya	The Kenya Medical Research Institute	31	88,848	0	85: 5. 1 ~ 90. 4.30
Nigeria	Jos University Medical Research	43	172,915	6	82. 7. 2 ~ 87. 7. 1
Zambia	Faculty of Medicine, University of Zambia	28	247,471	23	80. 2.21 ~ 88. 2.20
: :					
LATIN AMERICA	RICA				
Argentina	The Gastroenterological Endoscopy Diagnosis and	4	132,884	9	85. 4. $1 \sim 90.3.31$
	Research Centre				
Brazil	The Centre for Immunopathology of the Federal	139	295,887	6	84. 5.25 ~ 89, 5.24
	University of Pernambuco				
Colombia	The Project on Research and Development of	e=4	31,384	П	86.10. 1 ~ 89, 9.30
	Diagnostic Technology on Malatia and Other				
	Tropical Diseases				
Ecuador	Research and Control of Gastroenteric Diseases	2	137,319	4	$86.1.1 \sim 90.12.31$
Paraguay	The Central Laboratory, the Ministry of Public	30	318,301	21	$80.8.18 \sim 87.8.17$
	Health and Welfare		. :		
Peru	Development of Community Mental Health Services	19	193,121	17	80, 5.20 ~ 87, 5.19
Uruguay	The Gastroenterology Project	16	158,149	11.	84. 4. 1 ~ 89, 3.31
Venezuela	Gastrointestinal Tract Cancer Control	40	176,198	15	82. 4. 1 ~ 88. 3.31
CCEANIA					
Tonga	Japan-WHO Joint Technical Cooperation, the Health	28	161,550	12	81.12.15 ~ 86.12.14
	Laboratory				
EUROPE					
Yugoslavia	Continuing Education for Primary Health Care	30	147,569	80	84.11.26 ~ 89.11.25

## (3) Population and Family Planning Cooperation Programme

#### 1. Outline

This programme, which had been part of the Health and Medical Cooperation Programme until 1979, was separated from the latter and established as a new technical cooperation programme in 1980 in order to contribute to the promotion of the family planning in developing countries.

### 2. Performance in 1986

In 1986, cooperation was offered to a total of 7 projects; project (1) under preliminary survey and ongoing projects (6) as shown in the performance of population and family planning cooperation programme in FY 1986. Meanwhile, 41 experts were sent overseas and equipment amounting to 682 million yen was supplied.

\*Cumulative operations since each project started Performance of Population and Family Planning Cooperation Programme in Fiscal 1986

AREA COUNTRY	PROJECT		. <b>.</b>	*EXPERT DISPATCH (Person)	*EQUIPMENT SUPPLY (*Thousand)	*COUNTER- PART (Person)	DURATION
ASIA							
China	Family Planning		. :	37	1,131,722	-50	82.11.15 ~ 87.11.14
Nepal	Family Planning	- 1		7	1,080	2	85.10, 7 ~ 90.10, 6
Philippines	Family Planning			10	1,046,574	15	74. 4. 1 ~ 89. 3.31
Thailand	Family Planning			19	1,040,584	17	74. 4. 1 ~ 89. 3.31
LATIN AMERICA							
Cofombia	Family Planning			12	154,947	7	85.11. 8 ~ 90.11.17
Mexico	Promotion of Population Activities	ivities	** :	36	216,302	∞	84. 7. 4 ~ 88. 9.30

# (4) Agriculture, Forestry and Fisheries Development Cooperation Programme

#### 1. Outline

This programme is intended to provide assistance in agriculture, forestry and fisheries development of developing countries to contribute to increasing food production, improvement of farmers' income and living standards through the increase of productivity. The fields of cooperation cover rice cultivation, dry-field farming, livestock farming, forestry and fisheries. Forms of cooperation include: provision of technical guidance at agricultural extension centres and model extension farms of specific rops; provision of comprehensive guidance in the extension of advanced techniques at regional agricultural development centres to improve infrastructure for increased production and promotion of farmers' organizations in each designated project area; assistance in agricultural research and experiment for enhancing research and development capacity of recipient countries.

#### 2. Performance in 1986

In 1986, cooperation was extended to 77 agricultural, forestry and fisheries projects; a total of 565 experts were dispatched and agricultural vehicles, experiment and test equipment, chemicals and agricultural machines equivalent to 2,797 million yen were supplied.

Discussions were held and agreements were reached to offer cooperation on the following projects.

Performance of Agriculture, Forestry and Fisheries Development Cooperation Programme in Fiscal 1986
\*\*Cumulative operations since each project started

ASIA   FROJECT   DISPATCH   SUPPLY   PART   DURATION   PART   PART   DURATION   PART   PA			Performance of Agriculture, Forestry and Fisheries Development Cooperation Programme in Fiscal 1986 **Cumulative operations since et	es Development	Cooperation Pr	ogramme in Fisc mulative operation	Programme in Fiscal 1986     Cumulative operations since each project started
Bangadesh   The Institute of Possgraduace Studies in Agriculture   Brunei		AREA	PROJECT	*EXPERT DISPATCH (Person)	*EQUIPMENT SUPPLY (*Thousand)	*COUNTER- PART (Person)	DURATION
## Agriculture of Postgraduate Studies in  ### Agriculture  ### Burma The Contral Agriculture Development Training		ASIA					
Brunel         The Forestry Research         9         \$6,425         3         \$5.10.1         2           Burma         The Central Agriculture Development Training         17         253,801         8         85.10.1         -           Control         Central Agricultural Development Training         14         230,783         10         85.9.20         -           The Shanghai Fish Processing Technique Development Centre         14         170.032         5         86.1.1         -           The Integrated Wood Utilization Research Project         32         311,125         8         84.10.15         -           Project         The Remote Sensing Engineering Project         4         456,988         22         80.4.1         -           The Plant Protection Project         40         345,400         22         80.4.1         -           The Plant Protection Project         40         345,400         22         79.4.12         -           Sumatra         The Construction Guidance Service Centre         47         311,725         21         81.4.1         -           The Plant Protection Guidance Service Centre         47         31,725         25         79.4.12         -           Sumatra         The Tropical Rain Forest Research Proj		Bangladesh	The Institute of Postgraduate Studies in	27	261,432	. 17	7. 4
Burma         The Forestry Research         9         50,425         3         85.10.1         2.2           Burma         The Central Agriculture Development Training         17         253,801         8         85.10.1         2.2           Centre         The Shanghai Fish Processing Technique Development Training         14         230,783         10         85.9.20         2.1         2.2         86.1.1         2.2 <t< td=""><td></td><td></td><td>Agriculture</td><td>•</td><td></td><td></td><td></td></t<>			Agriculture	•			
Burma         The Central Agriculture Development Training         17         253,801         8         83.10.1         2.0           Chine         The Sanjianpingyuan Agricultural Research Centre         14         230,783         10         85.9.20         2.0           The Shanghai Fish Processing Technique Develop         14         170.032         5         86.1.1         2.0           ment Centre         The Integrated Wood Utilization Research Project         32         311,125         8         84.10.15         2.1           Project         The Remote Sensing Engineering Project         41         456,988         22         84.10.15         2.0         2.0           The Plant Protection Project in Bunakat, South         53         545,400         22         80.6.18         2.1           Sumatra         The Construction Guidance Service Centre         47         311,725         21         81.1         79.4.12           Sumatra         The Oconstruction Guidance Service Centre         47         311,725         44         84.1.1         77           The Strengthening of Artificial Insemination Centre         5         44,748         3         86.4.1         7           Palawija Crop Production         7         1003         3         86.4.1         7		Brunei	The Forestry Research	6	50,425	m	-
Chine         The Sanjianpingyuan Agricultural Research Centre         14         230,783         10         85, 9.20           The Shanghai Fish Processing Technique Develop         14         170,032         5         86, 11. 1           ment Centre         The Integrated Wood Utilization Research Project         32         311,125         8         84,10.15         79, 32.9           Indonesia         The Middle Level Agricultural Technician Training         36         462,107         42         79, 32.9           Project         The Remote Sensing Engineering Project         41         456,988         22         80, 4. 1           The Plant Protection Project         40         345,400         22         80, 6.18         79, 4.12           Sumatra         The Construction Guidance Service Centre         47         31,725         25         79, 4.12           The Construction Guidance Service Centre         47         31,725         25         79, 4.12           The Strengthening of Artificial Insemination Centre         5         44,748         3         86, 4, 1           The Strengthening of Pioneering Research for         1,003         3         86, 4, 1           Palawija Crop Production         88, 4, 1         7	.*	Burma	The Central Agriculture Development Training	17	253,801	• • • • • • • • • • • • • • • • • • • •	₹~1
China         The Sanjianpingyuan Agricultural Research Centre         14         230,783         10         85, 9.20           The Shanghai Fish Processing Technique Develop-         14         170.032         5         86, 1. 1           ment Centre         The Integrated Wood Utilization Research Project         32         311,125         8         84,10.15           Project         The Middle Level Agricultural Technician Training         36         462,107         42         79, 3.29           Project         The Remote Sensing Engineering Project         41         456,988         22         80, 4. 1           The Plant Protection Project         Abs. Abs. Abs. Abs. Abs. Abs. Abs. Abs.			Centre			:	
The Shanghai Fish Processing Technique Develop-         14         170.032         5         86, 1. 1           ment Centre         The Integrated Wood Utilization Research Project         32         311,125         8         84,10.15           Project         The Middle Level Agricultural Technician Training         36         462,107         42         79, 3.29         79, 3.29           Project         The Remote Sensing Engineering Project         40         345,400         22         80, 4, 1           The Plant Protection Project in Bunakat, South         53         545,362         25         79, 4.12           Sumatra         The Construction Guidance Service Centre         47         311,725         25         79, 4.12           The Tropical Rain Forest Research Project         17         152,996         4         84, 4, 1           The Veterinary Drug Control Project         26         209,207         14         84, 4, 1           The Strengthening of Prioneering Research for         18         1,003         3         86, 4, 1           Palawija Crop Production         3         86, 4, 1         1		China	The Sanjianpingyuan Agricultural Research Centre	14	230,783	10	9.20
The Integrated Wood Utilization Research Project   32   311,125   8   84.10.15 ~     Indonesia   The Middle Level Agricultural Technician Training   36   462,107   42   79, 3.29 ~     Project   The Remote Sensing Engineering Project   41   456,988   22   80, 4, 1 ~     The Plant Protection Project in Bunakar, South   53   545,362   25   79, 4,12 ~     Sumarra   The Construction Guidance Service Centre   47   311,725   21   81, 4, 1 ~     The Tropical Rain Forest Research Project   17   152,996   4   84, 1, 1 ~     The Strengthening of Artificial Insemination Centre   5   44,748   3   86, 4, 1 ~     Palawija Crop Production   86,64,1 ~     Palawija Crop Production   18   1,003   3   86, 4,1 ~     Palawija Crop Production   18   1,003   86, 4,1 ~     Palawija Crop Production   18   1,003   1,005   10     Palawija Crop Production   18   1,005   1,005   10     Palawija Crop Production   18   1,005   1,005     Palawija Crop Production   1,005   1,005   1,005     Palawija Crop Production   1,			The Shanghai Fish Processing Technique Develop-	1.4	170.032	ις.	1: 1
The Integrated Wood Utilization Research Project   32   311,125   8   84,10.15			ment Centre				
Indonesia         The Middle Level Agricultural Technician Training         36         462,107         42         79, 3.29         ~           Project         The Remote Sensing Engineering Project         41         456,988         22         80, 4.1         ~           The Plant Protection Project         40         345,400         22         80, 6.18         ~           Sumatra         The Construction Project in Bunakat, South         53         545,362         25         79, 4.12         ~           Sumatra         The Construction Guidance Service Centre         47         311,725         21         81, 4, 1         ~           The Plantation Guidance Service Centre         47         311,725         21         81, 4, 1         ~           The Plantation Guidance Service Centre         17         152,996         4         84, 4, 1         ~           The Strengthening of Artificial Insemination Centre         5         44,748         3         86, 4, 1         ~           Palawija Crop Production         1,003         3         86, 4, 1         ~         86, 4, 1         ~			The Integrated Wood Utilization Research Project	32	311,125	ω	
Project       41       456,988       22       80. 4. 1 ~         The Plant Protection Project       40       345,400       22       80. 6.18 ~         The Trial Plantation Project in Bunakat, South       53       545,362       25       79. 4.12 ~         Sumatra       The Construction Guidance Service Centre       47       311,725       21       81. 4. 1 ~         The Tropical Rain Forest Research Project       17       152,996       4       84. 1. 1 ~         The Veterinary Drug Control Project       26       209,207       14       84. 4. 1 ~         The Strengthening of Artificial Insemination Centre       5       44,748       3       86. 4. 1 ~         The Summatra       1,003       3       86. 4. 1 ~		Indonesia	The Middle Level Agricultural Technician Training	36	462,107	42	3.29
The Remote Sensing Engineering Project       41       456,988       22       80. 4. 1         The Plant Protection Project in Bunakat, South       53       545,400       22       80. 6.18         Sumatra       53       545,362       25       79. 4.12       70. 4.12         Sumatra       The Construction Guidance Service Centre       47       311,725       21       81. 4. 1         The Construction Guidance Service Centre       17       152,996       4       84. 1. 1         The Veterinary Drug Control Project       26       209,207       14       84. 4. 1         The Strengthening of Artificial Insemination Centre       5       44,748       3       86. 4. 1         The Screngthening of Phonecring Research for Phalawija Crop Production       1003       3       86. 4. 1			Project				
The Plant Protection Project       40       345,400       22       80. 6.18         The Trial Plantation Project in Bunakat, South       53       545,362       25       79. 4.12         Sumatra       The Construction Guidance Service Centre       47       311,725       21       81. 4. 1         The Construction Guidance Service Centre       17       152,996       4       84. 1. 1         The Tropical Rain Forest Research Project       26       209,207       14       84. 4. 1         The Strengthening of Artificial Insemination Centre       5       44,748       3       86. 4. 1         The Screngthening of Pionecring Research for Palawija Crop Production       1,003       3       86. 4. 1		-	The Remote Sensing Engineering Project	41	456,988	22	4.1
Sumatra       47       311,725       25       79. 4.12         Sumatra       The Construction Guidance Service Centre       47       311,725       21       81. 4. 1         The Tropical Rain Forest Research Project       17       152,996       4       84. 1. 1         The Veterinary Drug Control Project       26       209,207       14       84. 4. 1         The Strengthening of Artificial Insemination Centre       5       44,748       3       86. 4. 1         The Strengthening of Pioneering Research for Phalawija Crop Production       1,003       3       86. 4. 1			The Plant Protection Project	40	345,400	22	6.18
Sumatra       The Construction Guidance Service Centre       47       311,725       21       81. 4. 1 ~         The Tropical Rain Forest Research Project       17       152,996       4       84. 1. 1 ~         The Veterinary Drug Control Project       26       209,207       14       84. 4, 1 ~         The Strengthening of Atrificial Insemination Centre       5       44,748       3       86. 4. 1 ~         The Screngthening of Pionecring Research for Palawija Crop Production       1,003       3       86. 4. 1 ~			The Trial Plantation Project in Bunakat, South	53	545,362	25	4.12
The Construction Guidance Service Centre       47       311,725       21       81. 4. 1         The Tropical Rain Forest Research Project       17       152,996       4       84. 1. 1       1         The Veterinary Drug Control Project       26       209,207       14       84. 4, 1       86. 4, 1         The Strengthening of Artificial Insemination Centre       5       44,748       3       86. 4, 1         The Strengthening of Pionecring Research for Palawija Crop Production       1,003       3       86. 4, 1			Sumatra	. •			
The Tropical Rain Forest Research Project 17 152,996 4 84. 1. 1 ~  The Veterinary Drug Control Project 26 209,207 14 84. 4. 1 ~  The Strengthening of Artificial Insemination Centre 5 44,748 3 86. 4. 1 ~  The Strengthening of Pioneering Research for 1,003 3 86. 4. 1 ~  Palawija Crop Production	5		The Construction Guidance Service Centre		311,725	21	4, 1
The Veterinary Drug Control Project 26 209,207 14 84. 4. 1 $\sim$ The Strengthening of Atrificial Insemination Centre 5 44,748 3 86. 4. 1 $\sim$ The Strengthening of Pioneering Research for 18 1,003 3 86. 4. 1 $\sim$ Palawija Crop Production	÷		The Tropical Rain Forest Research Project	17	152,996	4	ਜ ਜ
The Strengthening of Artificial Insemination Centre 5 $44,748$ 3 $86.~4.~1\sim$ The Screngthening of Pioneering Research for 18 $1,003$ 3 $86.~4.~1\sim$ Palawija Crop Production			The Veterinary Drug Control Project		209,207	14	4,
The Strengthening of Pioneering Research for 18 1,003 3 86. 4. 1 $\sim$ Palawija Crop Production			The Strengthening of Artificial Insemination Centre	ĸ	44,748	n	4.
	,		The Strengthening of Pioneering Research for		1,003	ĸ	4. 1
	43		Palawija Crop Production				

AREA	PROJECT	*EXPERT DISPATCH (Person)	*EQUIPMENT SUPPLY (*Thousand)	*COUNTER- PART (Person)	DURATION
Korea	The Agro-metcorological Disaster Research Project	42	356,110	19	82.10, 1 ~ 87, 9.30
Malaysia	Development of the Faculty of Fisheries and Marine	25	203,894	10	84.10, 1 ~ 89, 9.30
	Science, University of Agriculture, Malaysia		:		
	The Forest Products Research Project	12	181,943	ın	85. 4. $1 \sim 90.3.31$
	The Malaysia ASEAN Poultry Disease Research and	4	14,768	4	86. 4.17 ~ 91. 4.16
	Training Project				
	The Sabah Reafforestation Technical Development	. 7			87. 3.14 ~ 92. 3.13
-,	and Training Project	٠.			
Nepal	The Horticultural Development Project	12	120,786	4	85.10.14 ~ 90.10.13
Philippines	The Afforestation Project of the Pantabangan Area	87	946.363	31	76. $6.18 \sim 87. 7.23$
	The Bohol Agricultural Promotion Centre	23	292,466	13	83. 2. 2 $\sim$ 88. 2. 1
Sri Lanka	The Integrated Agricultural Development Demonstra-	14	245,760	4	85. 2.11 ~ 90. 2.10
	tion Project in the Mahaweli Area				
Thailand	The National Weed Science Research Institute	31	345,396	17	80. 4.18 ~ 87. 3.31
	The Coastal Aquaculture Development Project	37	348,096	22	$81. \ 4. \ 1 \sim 86. \ 3.31$
	Agricultural Extension and Agricultural Mechaniza-	42	295,980	. 23	81. 7. 1 $\sim$ 87. 3.31
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	tion in Kasetsarr University				
	Research and Training in Reafforestation	4 6	421,707	21	81. 7. 9 $\sim$ 86. 7.28
	(Phase I & Phase II)	, !			86. 7.29 ~ 91. 7.28
	The Agricultural Development Research Project	30	144,699	100	83.12.20 ~ 88.12.19
	in Northeast Thailand				
	The Logging and Log Transport Training Project	20	358,353	<b>↑</b>	83.10, 1 ~ 88, 9.30
	The Agricultural Cooperation Promotion Project	13	151,909	13	84, 7, 6 ~ 89, 7, 5
	The Irrigation Engineering Centre	22	117,266	7	85, 4, 1 ~ 90, 3,31

The National Animal Health and Production   9 4,675   2 86.12.9 ~ 91.12.8	AREA	PROJECT	*EXPERT DISPATCH (Person)	*EQUIPMENT SUPPLY (*Thousand)	*COUNTER- PART (Person)	DURATION
he Rice Mechanization Plant Project 3 384,545 24 81. 8.18 ~ 90.  The Moroccan Fisheries Training Project 3 5,399 4 85.12. 4 ~ 90.1  Be Horicultural Development Project 6 36,399 4 85.12. 4 ~ 90.1  Be Horicultural Development Project for Social Forestry 12 80.310 3 85.11.26 ~ 87.1  Be Willmanjac Agricultural Development Project 12 47,599 3 86. 3.13 ~ 91.  Be Weterinary Education Project, University of 1 141,538 2 85. 1.22 ~ 90.  The Mational Fisheries School Project 13 141,538 1 12 84. 4. 1 ~ 89.  The Agriculture Project 13 38,172 7 83. 4. 1 ~ 88.  The Agricultural Development Training Centre 18 237,246 12 83. 7. 1 ~ 88.  The Adriaculture Project 13 8 83. 7. 1 ~ 88.  The Agricultural Development Project in the Agriculture Project 144,054 20 81. 6. 1 ~ 89.  The Agriculture Development Project in the Spiculture Project 14 88. 89. 7. 1 ~ 89.  The Agriculture Development Project in the Spiculture Praiguay	Thailand	The National Animal Health and Production Institute Project	6	4,675	2	9 ~ 91.12.
he Rice Mechanization Plant Project  3	VIDDLE EAS	<b>!</b>				
he Moroccan Fisheries Training Project  he Horticultural Development Project  he Horticultural Development Project  he Nursery Training and Technical Development  roject for Social Foresury  he Kilimanjaro Agricultural Development Project  12 47,509 3 86. 3.13 ~ 91.  he Veterinary Education Project, University of  21 141,538 2 85. 1.22 ~ 90.  14 57,555 12 84. 4. 1 ~ 89.  he National Fisherics School Project  15 573,258 16 79.10. 2 ~ 871.  he Aquaculture Project  16 Agricultural Development Training Centre  17 44,054 12 83. 7. 1 ~ 88.  he Animal Health Centre Project in the  he Agriculture Development Paraguay	Egypt		43	384,545	24	8.18 ~ 90.
he Horticultural Development Project  the Nursery Training and Technical Development  13 80,310 3 85.12. 4 ~ 90.1  147,509 3 86.5.13 ~ 91.  147,509 3 86.5.13 ~ 91.  147,509 3 86.5.13 ~ 91.  147,509 3 86.5.13 ~ 91.  147,509 3 86.5.13 ~ 91.  147,509 3 86.5.13 ~ 91.  147,509 3 86.5.13 ~ 91.  147,509 3 86.5.13 ~ 91.  147,509 3 86.5.13 ~ 91.  147,509 1 85.1.22 ~ 90.  148,517 1 88.  158,17 2 7 88.  16 79,10. 2 ~ 87.1  17 338,17 2 7 88.  18 237,246 12 83.7.1 ~ 88.  19 Addicultural Development Training Centre  19 Addicultural Development Training Centre  18 237,246 12 83.7.1 ~ 88.  19 Addicultural Development Project in the  19 Addicultural Development Project in the  10 Addicultural Development Project in the  11 8 237,246 12 83.7.1 ~ 88.  12 83.7.1 ~ 88.  13 84.4.1 ~ 88.  14 85.10 ~ 89.  14 85.10 ~ 89.  15 85.11 ~ 89.  16 85.11 ~ 89.  17 86. 31.3 ~ 91.  18 85.11 ~ 89.  19 86. 31.3 ~ 91.  10 86. 31.3	Morocco	The Moroccan Fisheries Training Project	n		н	1.19 ~ 92.
he Horicultural Development Project         6         36,399         4         85,12.4         90.1           he Nursery Training and Technical Development         13         80,310         3         85,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.26         87,11.2         91,           he Kilimanjaro Agricultural Development Project, University of ambia         21         141,538         2         86,5,13         91,           he Aquaculture Project         45         573,258         16         79,10,2         87,1,2         90,10,2         87,1,1         88,1,7         7         88,4,1         88,4,1         88,7,1         88,7,1         88,7,1         88,7,1         88,7,1         88,7,1         88,8,7,1         88,8,7,1         88,7,1         88,8,7,1         88,8,7,1         88,8,7,1         88,8,7,1         88,7,1         88,8,7,1         88,8,7,1         88,8,7,1         88,8,7,1         88,9,7,1         88,8,7,1         88,8,7,1         88,8,7,1         88,8,7,1         88,8,7,1         88,8,7,1         88,8,7,1	AFRICA		:		•	
he Nursery Training and Technical Development       13       80,310       3       85,11.26 ~ 87.1.         roject for Social Forestry       12       47,509       3       86,31.3 ~ 91.         he Kilimanjaro Agricultural Development Project, University of ambia       21       141,538       2       85,1.22 ~ 90.         he Vererinary Education Project, University of ambia       19       165,755       12       84, 4, 1 ~ 89.         he National Fisheries School Project       45       573,258       16       79.10, 2 ~ 87.1         he Aquaculture Project       45       573,258       16       79.10, 2 ~ 87.1         he Agriculture Project       11       338,172       7       83, 4, 1 ~ 88.         roject.       57       444,054       20       81, 6, 1 ~ 87.         he Agriculture Development Training Centre       57       444,054       20       81, 6, 1 ~ 87.         he Agriculture Development Project in the       53       523,300       39       79, 3,16 ~ 88.	Kenya	The Horticultural Development Project	<b>,</b>	36,399	4	~ 90.12.
roject for Social Forestry  he Kilimanjaro Agricultural Development Project  12 47,509 3 86. 3.13 ~ 91.  he Veterinary Education Project, University of 21 141,538 2 85. 1.22 ~ 90.  ambia  he National Fisheries School Project  19 165,755 12 84. 4. 1 ~ 89.  he Agraculture Project  he Coastal Fisheries Training and Extension  11 338,172 7 83. 4. 1 ~ 88.  roject  he Agricultural Development Training Centre  he Agricultural Development Project in the  53 444,054 20 81. 6. 1 ~ 87.  he Agriculture Development Project in the  53 523,300 39 79. 3.16 ~ 88.  outhern Paraguay		The Nursery Training and Technical Development	13	80,310	en.	₹
he Kilimanjaro Agricultural Development Project       12       47,509       3       86. 3.13 ~ 91.         he Vererinary Education Project, University of ambia       21       141,538       2       85. 1.22 ~ 90.         ambia       16       165,755       12       84. 4. 1 ~ 89.         he Agraculture Project       45       573,258       16       79.10. 2 ~ 87.1         he Coastal Fisheries Training and Extension       11       338,172       7       83. 4. 1 ~ 88.         roject       12       237,246       12       83. 7. 1 ~ 88.         he Agricultural Development Training Centre       37       444,054       20       81. 6. 1 ~ 87.         he Agriculture Development Project in the       53       523,300       39       79. 3.16 ~ 88.		Project for Social Forestry	4			:
he Vererinary Education Project, University of ambia ambia ambia    The National Fisheries School Project    The Aguaculture Project    The Aguaculture Project    The Coastal Fisheries Training and Extension    The Coastal Fisheries Training Centre    The Agricultural Development Training Centre    The Agriculture Development Project    The Agriculture Development Project in the Agriculture Development Project    The Agriculture Development Project in the Agriculture Development Paraguay    The Agriculture Development Project in the Agriculture Development Project in the Agriculture Development Paraguay    The Agriculture Development Project in the Agriculture Development Project in the Agriculture Development Paraguay    The Agriculture Development Project in the Agriculture Development Project II	Tanzania	The Kilimanjaro Agricultural Development Project	12	47,509	es.	3.13 ~ 91.
ambia         he National Fisheries School Project       19       165,755       12       84. 4. 1 ~ 89.         he Aquaculture Project       45       573,258       16       79.10. 2 ~ 87.1         he Coastal Fisheries Training and Extension       11       338,172       7       83. 4. 1 ~ 88.         roject       16       79.10. 2 ~ 87.1       83. 7. 1 ~ 88.         he Agricultural Development Training Centre       18       237,246       12       83. 7. 1 ~ 88.         he Animal Health Centre Project in the       57       444,054       20       81. 6. 1 ~ 87.         outhern Paraguay       53       523,300       39       79. 3.16 ~ 88.	Zambia	The Vererinary Education Project, University of	21	141,538	2	$1.22 \sim 90.$
he National Fisheries School Project       19       165,755       12       84. 4. 1 ~ 89.         he Aquaculture Project       45       573,258       16       79.10. 2 ~ 87.1         he Coastal Fisheries Training and Extension       11       338,172       7       83. 4. 1 ~ 88.         toject       12       83. 7. 1 ~ 88.         he Agricultural Development Training Centre       18       237,246       12       83. 7. 1 ~ 88.         he Animal Health Centre Project       37       444,054       20       81. 6. 1 ~ 87.         he Agriculture Development Project in the       53       523,300       39       79. 3.16 ~ 88.         outhern Paraguay       53       523,300       39       79. 3.16 ~ 88.		Zambia		eir		
The National Fisheries School Project  The Aquaculture Project  The Aquaculture Project  The Aquaculture Project  The Coastal Fisheries Training and Extension  The Coastal Fisheries Training and Extension  The Agricultural Development Training Centre  The Agricultural Development Training Centre  The Animal Health Centre Project  The Agriculture Development Project in the  Southern Paraguay  The Agriculture Day 12 83. 7. 1 ~ 87.  The Agriculture Development Project in the  Southern Paraguay  Southern Paraguay	LATIN AMER	31CA				
The Aquaculture Project       45       573,258       16       79.10. 2 ~ 87.1         The Coastal Fisheries Training and Extension       11       338,172       7       83. 4. 1 ~ 88.         Project       18       237,246       12       83. 7. 1 ~ 88.         The Agricultural Development Training Centre       37       444,054       20       81. 6. 1 ~ 87.         The Animal Health Centre Project in the       53       523,300       39       79. 3.16 ~ 88.         Southern Paraguay       Southern Paraguay	Argentina	The National Fisheries School Project	19	165,755	12	$1 \sim 89$ .
The Coastal Fisheries Training and Extension       11       338,172       7       83. 4. 1 ~ 88.         Project       18       237,246       12       83. 7. 1 ~ 88.         The Animal Health Centre Project       37       444,054       20       81. 6. 1 ~ 87.         y       The Agriculture Development Project in the Southern Paraguay       53       523,300       39       79. 3.16 ~ 88.	Chise	The Aquaculture Project	45	573,258	16	}
Project       38       7.1 ~ 88.         The Agricultural Development Training Centre       37       444,054       20       81. 6. 1 ~ 87.         The Animal Health Centre Project       53       523,300       39       79. 3.16 ~ 88.         Southern Paraguay       Southern Paraguay		The Coastal Fisheries Training and Extension	11	338,172	7	4. $1 \sim 88$ .
The Agricultural Development Training Centre 18 237,246 12 83, 7.1 ~ 88.  The Animal Health Centre Project  The Animal Health Centre Project in the 53 523,300 39 79. 3.16 ~ 88.  Southern Paraguay		Project				
The Animal Health Centre Project $37$ $444,054$ $20$ $81. 6. 1 \sim 87. 9 The Agriculture Development Project in the 53 523,300 39 79. 3.16 \sim 88. Southern Pataguay$	Honduras	The Agricultural Development Training Centre	18	237,246	12	7.1 $\sim$ 88.
The Agriculture Development Project in the S3 523,300 39 79. 3.16 $\sim$ 88. Southern Paraguay	Mexico	The Animal Health Centre Project	37	444,054	20	6. $1 \sim 87$ .
Southern Paraguay	Paraguay	The Agriculture Development Project in the	53	523,300	39	$3.16 \sim 88$ .
		Southern Paraguay	+ i			
				. :		

AREA	PROJECT	*EXPERT DISPATCH (Person)	*EQUIPMENT SUPPLY (*Thousand)	*COUNTER- PART (Person)	DURATION	
Paraguay	The Forestry Development Project in the Southern	32	426.794	21	79. 3.16 ~ 87. 3.15	
	Paraguay					
٠	The Animal Reproduction Improvement Project	36	316,192	17	82.12. 3 ~ 87.12. 2	
Peru	The Vegetable Cultivation Technique Centre	\$	27,480	ੁਜ਼	86. 4. 7 ~ 91. 4. 6	
	Project					
Uruguay	The Fruit-Trees Research Project	<b>න</b>	17,737	79	86. 7.28 ~ 91. 7.27	
CEANIA						
Fiji	Aquaculture Research and Development	58	238,994	7	81,11,18 ~ 87, 3,31	
	The Improvement of Rice Cultivation Technology	Ħ Ħ	149,242	w	85. 4.18 ~ 90. 4.17	

## (5) Industrial Development Cooperation Programme

#### 1. Outline

This Programme is aimed at the effective utilization of locally available natural and human resources in developing countries for the development of mining and manufacturing industries to expand employment opportunities.

In order to promote the development of local industries in developing countries, not only the transfer of manufacturing technology but also the transfer of production-related techniques such as production control, business management, distribution and marketing and development of human resources, as well as the enhancement of research and development capability are equally important.

The Industrial Development Cooperation Programme was initiated in 1978 through reorganization of the former Primary Commodities Development Cooperation Programme.

#### 2. Performance in 1986

In 1986, cooperation was offered to a total of 21 projects. For these projects, equipment and materials worth 444 million yen were supplied, and a total of 116 experts were dispatched.

Performance of Industrial Development Cooperation Programme in Fiscal 1986

project started
eacn
since
operations
*Cumulative

AREA	РВОЗЕСТ	*EXPERT DISPATCH (Person)	*EQUIPMENT *COUNTER SUPPLY PART (*Thousand) (Person)	PURATION
ASIA				
China	The Meat Food Research Centre	17	80,092 15	85. 4.10 ~ 90. 4. 9
	The Mining Research Centre for Non-Ferrous	60		87. 3. 1 $\sim$ 91. 2.28
	Metals			
	The Education System for Chinese Patent Information	4	<b>9</b>	86.11. 1 ~ 90.10.31
	Retrieval System Development			
Indonesia	The Biomas Energy Research and Development	34	107,840	82.10.22.~ 86.10.21
	Centre			
Korea	The Prevention of Coal Mine Accident	24	175,090 10	84. 3. 6 ~ 88. 3. 5
Philippines	The Trade Training Centre	ĸΛ	10	87. 2.23 ~ 91. 2.22
Sri Lanka	The Appropriate Technology Research and	30	129,136	82. 1. 7 ~ 87. 3.31
	Development Centre			
Thailand	The Trade Training Centre	20	9,213	83. 9. 5 $\sim$ 87. 9. 4
	The Metal-Working and Machinery Industries	w	<b>w</b>	86.10. 1 ~ 90. 9.30
	Development Institute (MIDI)			
	The Maize Quality Improvement Research Centre	73		86.12.15 ~ 91.12.14
		: 1		
AFRICA				
Tanzania	The Kilimanjaro Industrial Development Centre	45	242,135 16	78. 9.13 ~ 88. 3.12
LATIN AMERICA	CA			
Brazil	Small and Medium Scale Industry Development	21	305,704 21	80.10, 2 ~ 86.10, 1
	in Parana State	٠.		
Mexico	The Project on the Recovery of Valuable Minerals	òo	188,525	86. 2.18 ~ 90. 2.17
	from Unutilized Pyrite-Rich Polymerallic Ores			
Paraguay	Wholesale Marketing System Improvement	14	244,377	81.12. 7 ~ 87.12. 6
pared	The Treatment Process of Copper Oxide Mineral	10	409.985	83. 7, 1 ~ 88, 6.30

## (6) International Disaster Relief Programme

#### 1. Outline

Japan's overseas disaster relief programme was inaugurated in 1982 with the set-up of JMTDR (Japan Medical Team for Disaster Relief). JMTDR-related activities include dispatch of the medical relief team to disaster-stricken countries, recruitment of the team members, studies regarding international disaster relief activities and preparation of relief goods.

With the Mexican earthquake and the Colombian volcanic eruption in 1985 as a momentum, a need was indicated for more general emergency relief services and the new International Disaster Relief Team has been set up, comprising four main branches:

- 1. the Japan Rescue Team for Disaster Relief (JRTDR) with the Fire Defence Agency as the main constituent,
- 2. the Japan Medical Team for Disaster Relief (JMTDR), operated by a group of doctors and nurses,
- 3. a team whose members all have experience of working for the Japan Overseas Cooperation Volunteers (JOCV OB's),
- 4, a team of rehabilitation and reconstruction experts.

Administration and logistic backup services are provided by the International Disaster Relief Operation HQ set up at JICA.

#### 2. Performance in 1986

In 1986, a total of 44 experts were dispatched to the disaster areas in Solomon Is. (cyclone), Cameroon (volcanic poisonous gas), the Philippines (typhoon), El Salvador (earthquake), Cook Is. (cyclone), Vanuatu (cyclone), and Ecuador (earthquake, flood).

## Section 5. Development Survey Programme

#### 1. Outline

This programme is intended to offer consultancy services through dispatch of teams composed of experts in field surveys and office work for development

projects of public nature in developing countries.

Promotion of comprehensive regional development projects and other development projects in the public sector bears closely upon the socioeconomic progress of developing countries, and it has often been the case that these countries lack the sufficient number of experts with high level of technology and wide experience to make the necessary judgement in the planning of such projects and capable personnel who, under the instruction of experts, can coordinate and organize the project planning. There are also many cases where the system, under which the engineers responsible for project planning work in union, is inadequate. Accordingly, the Japanese government is frequently requested by these countries to cooperate in the planning of such comprehensive regional development projects or individual projects. To comply with such requests, the Agency conducts development surveys as part of its technical cooperation. By phase, the development surveys can be broadly classified as follows:

- (1) Surveys for formulating Master Plans
- (2) Surveys for drawing Maps and Marine Charts
- (3) Preliminary Surveys
- (4) Feasibility Studies
- (5) Surveys directly related to Financial Cooperation
- (6) Surveys directly related to Grant Aid Programme
- (7) Surveys for Detailed Designs
- (8) Basic Surveys for Resources Development Cooperation
- (9) Surveys for Aftercare Services
- (10) Surveys for Resources in Forestry and Fisheries
- (11) Surveys for Project Finding, Evaluation, Follow-up, etc.

Besides the Development Survey Programme, survey teams are also sent for Project-type Technical Cooperation, Development Cooperation, Grant Aid Cooperation, Training Programme, Recruiting and Training Experts, JOCV Programme, etc.

### 2. Performance in 1986

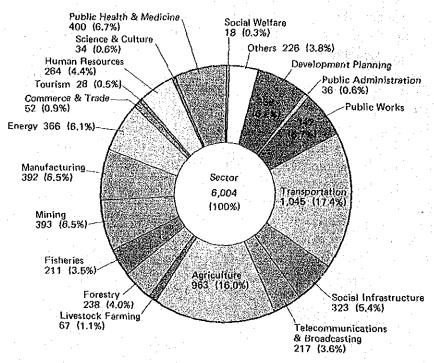
The total number of survey team members dispatched in FY 1986 including

those in service from the preceding year on has reached 6,004 (5,796\*), the performance of which is shown by sector and region in the Fig. 1. Of the figure 6,004 above, 2,570 experts or 316 teams were dispatched under the development survey programme, bringing the cumulative number of development survey team members since 1952 to 25,909, the performance of which is shown by sector and region in the Fig. 2. The development survey projects are listed by country in page 54 on.

\* The number in parenthesis shows survey team members newly dispatched in FY 1986.

Fig. 1 Number of Survey Team Members Dispatched by Sector and Region (1986) (including those in service from the preceding year on)

(Unit: Person)



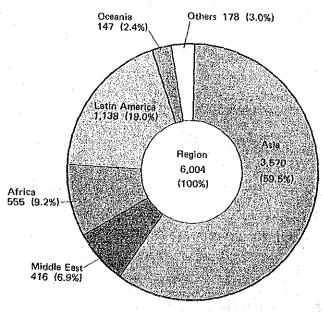
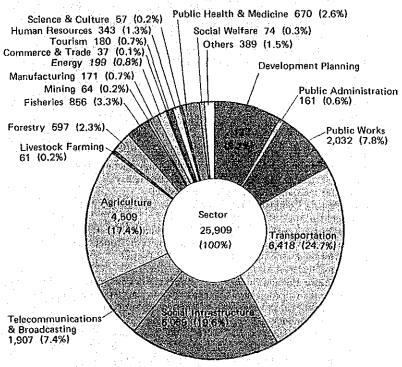
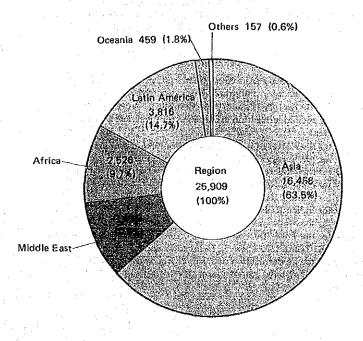


Fig. 2 Cumulative Number of Development Survey Team Members Dispatched by Sector and Region (1957–1986)

(Unit: Person)





AREA COUNTRY	NAME OF DEVELOPMENT SURVEY	CLASSIFIED NO.
ASIA		
Bangladesh	Survey for the Development Project of Dhaka Port	1,4
Darigiacioni	Survey for the Storm Water Drainage System Improvement	3, 4
	Project in Dhaka City	3
Bhutan	Survey for the Rajshahi Irrigation & Drainage Development Project Survey for the Lhuntch-Mongar Integrated Agricultural Development	3
Situ tan	Project	
Burma	Survey for the Track Telecommunication and Signalling Improvement Project	4
*	Survey for the Irrawaddy River Bridge Construction Project	, 4
	Survey for the Establishment of Zinc Smelter and Slag Fuming Plant	. , 3.
China	Survey for the Subway Project of Shanghai	4
Citilla	Survey for the Shanghai—Nanjing Expressway Construction Project	4
	Survey for the Port Development Project in Dapeng Bay	4
	Survey for the Dalian Port Development Project	3, 4
	Survey for the Comprehensive Urban Transportation in the Beijing	.1,3
	Metropolitan Area	
	Survey for the Kouhokou-River Bridge Construction Project	3, 4
	Survey for the Groundwater Development Project in Tianjin City	1
	Survey for the Kannonkaku Dam Construction Project	3, 4
	Survey for Shanghai Air Pollution Control	. 1
	Survey for the Hokkou Hirakyo Multipurpose Dam Construction Project	4 -
•	Survey for the Irrigation Development Project in Northern Hubei	3
	Survey for the Hainan Island Integrated Development Plan	. 1
	Survey for Economic and Technical Cooperation	. 11
	Survey for the Factory (Steel) Modernization Programme	4
	Survey for the Factory (Heavy Machinery) Modernization Programme	4
	Survey for the Factory (Glass) Modernization Programme	4
•	Survey for the Factory (Piston) Modernization Programme	4 :
	Survey for the Factory (Electric Cable) Modernization Programme	4
	Survey for the Pactory (Fefei Chemical Works) Modernization	3, 4
	Programme Survey for the Modernization Programme for Xiang Yang Bearing	3, 4
	Plant	
	Survey for the Factory (Alminium) Modernization Programme	3,4
	Survey for the Factory (Pump) Modernization Programme	3, 4
	Survey for the Factory (Foundry) Modernization Programme	3, 4
	Survey for the Modernization Programme for Shenyang Griding Wheels Plant	3, 4
	Survey for the Factory (Tractor) Modernization Programme	3, 4
	Survey for the Energy Conservation Promotion Project	4
	Survey for the Modernization Programme for Kousei Copper Mine	3, 4
	Survey for Mineral Resources Exploration	8
	Survey for Mineral Resources Exploration	8
India	Survey for Indian Railways	11
	Survey for the Modernization of Rolling Stock Workshop	3,4
	Survey for the Track Telecommunication and Signalling Improvement Plan on the Trunk Line between Delhi and Kanpur	3, 4
	Survey for the Modernization of Burnpor Iron & Steel Works	4
Indonesia	Survey for the Arterial Road System Development in the Jakarta	1
	Metropolitan Area	
٠ .		• •
54		
•		4.5
•		

AREA COUNTRY	NAME OF DEVELOPMENT SURVEY	CLASSIFIED NO.
Indonesia	Survey for the Development Plan of the Port of Semarang	1, 4
	Survey for the Airport Development Project in Central Java and	1,4
	Jogjakarta	•
	Survey for the Development of Telecommunication System	1
'	Survey for the Surabaya-Banjarmasin Submarine Cable Project	4
	Survey for the Solid Waste Management System Improvement	1,4
	Project in Jakarta City	.,
*	Survey for the Regional Development Project in the Western Part	1, 3, 4
	of Java	~, ~, .
	Survey for the Future Demand of Inter-island Traffic	3, 4
4	Survey for the Disaster Prevention Project in the Southeastern Slope	3
	of Mt, Galunggung	. 3
	Survey for the Flood Control Plan of the Upper Citarum Basin	3
		3
	Survey for the Kalimantan-Sulawesi Submarine Cable System	3, 4
	Survey for the Trans-Sumatra Terrestrial Digital Transmission	3, 4
•	System	1 2
	Survey for the Master Plan for the Development of Maritime Search	1,3
	and Rescue and Prevention of Marine Accidents	* 1
	Survey for the Multiplication and Distribution of Improved Soybean	11
	Seed and Seed Potato	
	Survey for the Renovation of Medari Fabric Factory	4
	Survey for the Development of Linkage-type Industries	4
	Survey for the National Iron and Steel Development for the Second	4
	Generation	
•	Survey for the Electric Power System Development Programme in	4
•	Central Sumatra	
	Survey for the Cipasang Hydroelectric Power Development Project	4
	Survey for the Ranau Hydroelectric Power Development Project	4
	Survey for the Effective Utilization of Banko Coal	4
100	Survey for the Upgrading of Dayeuhkolot Workshop	3
	Survey for the Ayung Hydroelectric Power Development Project	3,4
	Survey for the Kerinci Geothermal Development Project	3,4
	Survey for Mineral Resources Exploration	8
Malaysia	Survey for Kelang Valley Transportation	1
	Survey for the Kuantan-Kota Kinabalu Submarine Cable Project	4
	Survey for the Tanjong Karang Irrigation Development and	4
1.5	Management Project	
. *	Survey for the Computerized Area Traffic Control System in Penang	4
	Survey for the Comprehensive National Tourism Development Plan	1, 3, 4
•	Survey for Flood Control of the Klang River Basin	1,3
		3
and the second	Survey for Klang Valley Transportation	4
Charles and	Survey for the City Gas Distribution System in Klang Valley Area	4
	Survey for the Tenon Pangi Hydroelectric Power Development Project	4
	Survey for the Sarawak Small Scale Hydroelectric Power Development	7
	Project	2.4
7	Survey for the Lebir Dam Project	3,4
	Survey for Mineral Resources Exploration	8
Nepal	Survey for the Shindhuli Road Construction Project	3,4
	Survey for the Development Plan of Television Network	1,3
	Survey for Integrated Rural Development in Lumbini	3
	Survey for the Establishment of Integrated Textile Mill	4
	Survey for the Arun-3 Hydroelectric Power Development Project	4

AREA COUNTRY	NAME OF DEVELOPMENT SURVEY	CLASSIFIED NO.
Pakistan	Survey for the Paddy/Rice Handling and Processing Improvement	<b>1</b> ****
	Project	
	Survey for the Master Plan on Baluchistan Irrigation	1 2 4
	Survey for Water Resources Development Potential in the Capital	1, 3, 4
	Area	3, 4, 9
	Survey for the National Transport Plan	3, 4, 3
	Survey for the Upper Kurang Irrigation Development Project	8
	Survey for Mineral Resources Exploration	1,4
Philippines	Survey for the Manila South Port Rehabilitation Project	2
	Survey for the Graphic Information Base Project of the National	4.
	Capital Region	4
· ·	Survey for the Road Improvement on the Maharlika Highway	4
	Survey for the Master Plan Study on Cagayan River Basin Water	1
	Resources Development	. 1 1
	Survey for the Municipal Water Supply Project	1,4
	Survey for the Improvement Project of the Operation and	1 .
	Maintenance of Magat River Integrated Irrigation	
	Survey for the Preparation of Forest Information in the Wide Area	1,4
**	and Forest Management Planning	
	Survey for the Philippine Rural Road Network Development Project	3
	Survey for the Metro-Manila Flood Control Plan	. 3
	Survey for the Integrated Agricultural Rural Development Project	1, 3, 4
	in Western Samar	
	Survey for the Highland Rural Agricultural Integrated Development Pilot Project	1,3
	Survey for Marinduque Integrated Agricultural Development	1, 3
	Survey for the Improvement of Operation & Maintenance in the	3
	Pumping Irrigation Systems	
	Survey for the Consolidated Master Plan for Fish Transport System	3
	and Other Fisheries Support System	*
	Survey for Economic and Technical Cooperation (Agriculture)	11
	Survey for Economic and Technical Cooperation (Energy, Industry)	11
	Survey for Economic and Technical Cooperation (Transportation,	11
	Telecommunication)	
	Survey for Economic and Technical Cooperation (Social Welfare)	11
	Survey for the Caliraya Dam Rehabilitation Project	4
	Survey for the Hydropower Potential in Luzon	. , 4.
	Survey for the Plant (Island Cement) Renovation	* *
	Survey for the Angat Dam Rehabilitation Project	3
	Survey for the Binga Dam Rehabilitation Project	3
	Survey for the Ambuklao Dam Rehabilitation Project	3
	Survey for the Calaca No. 1 Coal-Pired Power Plant Rehabilitation	3,4
	Project	
	Survey for Mineral Resources Exploration	8
Singapore	Survey for the Plant Renovation Project of the Sentosa Earth Station	4
•	Survey for the Urban Transport Improvement Plan	3
Sri Lanka	Survey for the Integrated Rural Development Project for the Gampaha	1
	District Company of the Company of t	100
•	Survey for the Upper Kotmale Hydroelectric Power Development Project	. 4
Thailand	Survey for the Dredging Plant Development Project	4
•	Survey for the Railway Yard Improvement Project	4
•	Survey for the Effective Port Management and Operation System	4

AREA COUNTRY	NAME OF DEVELOPMENT SURVEY	CLASSIFIED NO.
Thailand	Survey for Road Improvement, Rehabilitation and Traffic Safety in Bangkok	4
	Survey for the New Krung Thep Bridge Construction and the	4
	Thonburi Road Extension Project Survey for the Topographic Mapping Project of the Bangkok	2
	Metropolitan Area Survey for the Flood Forecasting System in the Chao Phraya River	3, 4
	Basin	1.4
· ·	Survey for Provincial Water Supply Projects	1,4
	Survey for the Bang Nara Irrigation and Drainage Project (Phase II) Survey for the Water Management System and Monitoring Programme in the Chao Phraya River Basin	1, 3, 4
•	Survey for the Aerial Photography and Forest Management Plan in the Encroached National Reserve Forest	4
	Survey for the Regional Truck Terminals Project	3,4
	Survey for Potential Tourism Area Development for the Southern Region	1,3
	Survey for Road Development in the Central Region	1,3
	Survey for the Integrated Rural Development Plan for Agricultural Land Conservation in the East of Thailand	3
	Survey for the Agricultural Water Development Project of the Chanthaburi River Basin	3
	Survey for Economic Cooperation	11.
	Survey for the Distribution System Dispatching Centre Project	4
	Survey for the Nam Yuam River Basin Hydroelectric Power Development Project	1
	Survey for the San Kanpaeng Geothermal Development Project	4 8
	Survey for Mineral Resources Exploration Survey for the Industrial Standard and Testing Development	3, 4
	Programme Survey for the Quality Management Planning for Samuth Prakarn	3
	Province	3.
***	Survey for the Effective Use of Industrial Water	8
	Survey for Resources Exploration	· ·
Bangladesh,	Survey for Project Identification in Economic and Technical	11
China,	Cooperation	
Indonesia,		
Malaysia,		
Pakistan,		
Philippines,		
Singapore,		
Thailand		
		11
Bangladesh,	Survey for Project Identification in Economic and Technical	11
Pakistan	Cooperation	
india	C. P. P. J. Tarkeitel Communication	. 11
India, Nepal	Survey for Economic and Technical Cooperation (Evaluation)	3.1
Malaysia, Thailand	Survey for Project Formulation in Industry Development	11

AREA	NAME OF DEVELOPMENT SURVEY	CLASSIFIED
COUNTRY	Hame of	
\$#-Javoia	Survey for Economic and Technical Cooperation (Evaluation)	11
Malaysia, Thailand	Survey for Economic and	
Itlattatio		
Bangladash,	Survey for Economic and Technical Cooperation (Evaluation)	11
Nepal,		
Srí Lanka		
Indonesia,	Survey for Project Finding in Hydroelectric Power Development	3
Thailand		
	A many and Down	3
Indonesia,	Survey for Project Identification in Mining, Industry and Power	
Malaysia,	Development	
Philippines,		•
Singapore,		
Thailand		
MIDDLE EAST		•
Emint	Survey for the Development Plan of the Suez Bay Coastal Area	1,4
Egypt	Survey for Greater Cairo Transportation	3
. *	Survey for the New Television Centre at 6th October City	4
	Survey for the Sharqiya Sewerage System	3
	Survey for the Integrated Rural Development Plan in North Sinai	1,3
	Survey for the Expansion Project of the Dikheila Integrated Steel	3,4
	Mill	
Iran	Survey for the Caspian Sea Coastal Area Agricultural Development	1
	Project	
traq	Survey for Baghdad City Urban Transport Improvement	. 4
Jordan	Survey for the Hydrogeological and Water Use Study of the Mujib	1
i.	Watershed	
	Survey for the Integrated Regional Development Plan for the Karak	1
	Region	
Morocco	Survey for the Development Project of the Elevated Type Urban	4 .
	Transport System in Casablanca	<u>:</u>
	Survey for the Oujda Province Groundwater/Rural Development	4
_	Project	
Oman .	Survey for the Wadi Jizi Agricultural Development Project	7 · ·
	Survey for the Groundwater-used Agriculture Development Project	3
0-1	in the Nejd Region	
Qatar	Survey for the Drainage Improvement Plan, Doha City	4
Saudi Arabia	Survey for the Technical Cooperation for Sea Water Desalination Technology	4
Tunisia	Survey for the Topographic Mapping Project	2
, attiala	Survey for Forest Management in the Basin of River Medierdh	3
Turkey	Survey for the Corch River Hydroelectric Power Development	. 4
Lainey	Project	
* .	Survey for the Goothermal Development Project	4
	Survey for Mineral Resources Exploration	8

AREA COUNTRY	NAME OF DEVELOPMENT SURVEY	CLASSIF NO.
AFBICA		
AFRICA		
Cameroon	Survey for the Bigon Agricultural Development Project	. 4
	Survey for the Bon River Valley Agricultural Development Project	3
tvory Coast	Survey for Project Formulation in Africa	11
	Survey for the Integrated Regional Development Master Plan for	1
Kenya	the Lake Basin Victoria Area	1,
		. 4.
	Survey for the Mivea Irrigation Development Project	4
	Survey for the Nairobi By-pass Construction Project	3,4
	Survey for the Mapping Project in the South Coast of Kenya	3
Madagascar	Survey for Agricultural Development in Fianarantsoa	3
Malawi	Survey for Mineral Resources Exploration	. 8
Niger	Survey for the Hydro-agricultural Development Project of the Ouna-	3
	Kouanza Basin	
	Survey for Project Formulation	11
Senegal	Survey for the Small Scale Rural Development Project	4
	Survey for Project Formulation in Economic and Technical	11
	Cooperation	
Tanzania	Survey for Expanded Afforestation Work	3, 4
	Survey for the Hai and Rombo Districts Groundwater-used Agricultural	3
	Development Plan	
	Survey for Small Scale Hydropower Development in Kilimanjaro	3
Zaire	Survey for the Comprehensive Transport System Development	1
2.0116	between Kinshasa and Banana	-
4 4	Survey for the Kimbanseke New Railway Construction Project	3,4
7	Survey for Agricultural Fields	11
Zambia	Survey for the Briquettes Development Project	4
		3,4
	Survey for the Establishment of Phosphate Fertilizer Plant	8
	Survey for Mineral Resources Exploration	3
Zimbabwe	Survey for the Medium-sized Dam Project in the Province of Maschingo	8
	Survey for Mineral Resources Exploration	
	C. D. Let II. (Continuin Bernamic and Technical	11.
Ghana,	Survey for Project Identification in Economic and Technical	11.
Kenya,	Cooperation	
Madagascar		
	A S I W I W I W I W I W I W I W I W I W I	11
Ivory	Survey for Project Identification in Economic and Technical	11
Coast,	Cooperation	
Niger		
	en en grinder de la companya de production de la companya de la companya de la companya de la companya de la c La companya de la co	
Mozambique,	Survey for Project Identification in Southern Africa	11
Tanzania,		
Zambia,		
Zimbabwe		
LATIN AMERICA		
Argentina	Survey for the Development Plan for Telecommunication and	. 4
	Broadcasting Network in the Province of Mendoza	
	Survey for the Amplification of Inspection and Repairing Workshop	4
	for the Electric Rolling Stock	
1		
i i		
and the second second		

AREA COUNTRY	NAME OF DEVELOPMENT SURVEY	CLASSIFIED NO.
Argentina	Survey for the Irrigation and Drainage Project in the Adjacent Area to the Yacyreta Dam	1,3,4
	Survey for Economic Development	1.
	Survey for the Industrial Energy Conservation Programme	- 3
	Survey for Geothermal Development Project	3
	Survey for Mineral Resources Exploration	8
	Survey for Mineral Resolutes Exploration.  Survey for the Road Improvement between San Borja and Trinidad	4
Bolivia	Survey for the El Alto Airport Modernization Project	1, 3, 4
•	Survey for Groundwater Development in the El Alto District in La	3, 4
	Paz City	8
	Survey for Mineral Resources Exploration	
Brazil	Survey for the Itajai River Basin Flood Control Project	1,4
	Survey for Mineral Resources Exploration	8
Chile	Survey for the Development Plan for the Valparaiso Fort and the San Antonio Port	, <b>1,4</b> .
	Survey for the Tololo Pampa Area Groundwater-used Agricultural	+4 .
	Development Project	
	Survey for the Mapocho River Basin Agricultural Development	4
	Project	
•	Survey for the Modernization of the Codelco's Factories	4
	Survey for Mineral Resources Exploration	8
Colombia	Survey for the Urban Development of the Central District Barranquilla	4
Colonidia	Survey for the Small-scale Irrigation Project on Slope Areas	4
	Survey for the Integrated Agricultural Development Project in Quindio	1, 3, 4
	Survey for the Northern Tolima Agricultural Reconstruction Project	.3 ,
	Survey for the Atrato Hydroelectric Power Development Project	1,4
	Survey for Mineral Resources Exploration	8
Costa Rica	Survey for the Caldera Port Maintenance Project	4
COSta Mica	Survey for the Fisheries Resources of the Coast of Costa Rica	10
	Survey for Limon Integrated Agricultural Development Project	1, 3, 4
Dominican	Survey for the Development Project of the Port of San Pedro de Macoris	1, 4
Republic	Survey for the Aguacate-Guayabo Agricultural Development Project	4
•		11
F	Survey for Project Follow up in Mining Development	4
Ecuador	Survey for the Guayaquil City Urban Transportation Plan	
	Survey for Forest Inventory in the Northeastern Region	10
	Survey for the Chespi Hydroelectric Power Development Project	4
Guatemala	Survey for the Groundwater Development Project in Guatemala City	4 .
	Survey for the Development Project of Santo Tomas de Costilla	. 3
	Survey for the Monjas Irrigation Project	3
Jamaica	Survey for the Modernization and Expansion of the Rio Cobre Irrigation Scheme	.4
Mexico	Survey for the Repair Dockyard of Lazaro Cardenas	3,4
	Survey for the Air Pollution Control Plan in the Federal District	1,3
	Survey for La Primavera Geothermal Development Project	4
	Survey for Mineral Resources Exploration	
Panama	Survey for Alternatives to the Panama Canal	3
	Survey for the Corredor Sur Development Project in the Panama Metropolitan Area	4
	Survey for the Coal-Fired Power Plant Project	4

AREA	NAME OF DEVELOPMENT SURVEY	CLASSIFIED NO.
Paraguay	Survey for Urban Transport in the Asuncion Metropolitan Area	1
Falaguay	Survey for the Storm Drainage System Improvement Project	1,4
	in Asuncion City	-, -
	Survey for the Principal Grain Production Increase Project in the	1
	Central Area of Itapua	
	Survey for the Water Pollution Control Plan for the Lake Ypacarai	3
	and its Basin	_
	Survey for Fertilizer Production Plant	4
Peru	Survey for the Development Project of Lima International Airport	1.4
1014	Survey for the Topographic Mapping Project	2
14 to 14	Survey for the Disaster Prevention Project in the Rimac River Basin	1, 3, 4
	Survey for Mineral Resources Exploration	2,0,1
Uruguay	Survey for the Establishment of Tree Plantation and Utilization of	1
Glugory	Timber	, ,
Argentina,	Survey for Economic and Technical Cooperation (Evaluation)	11
Peru	out to feet at a sometime of the contraction (a talking)	•
1 dia		
Brazil,	Survey for Economic and Technical Cooperation (Evaluation)	11
Mexico,	Ourie, to be nomine and reconstent cooperation (Distriction)	
Panama		
1 anamu		
OCEANIA		100
OCEANIA		
Papua New	Survey for Detailed Design of the Bereina Malalaua Road	3, 7
Guinea	Survey for Project Identification	11
Western Samoa	Survey for the Development of Ports	1,3,4
VICSIONI COMICE	Survey for the Development of Forts	1,5, 1
Fiji,	Survey for the Fisherics Resources	10
Tuvalu	Oursey for the Listotte Reportees	
, , , , , , , , , , , , , , , , , , , ,		
Fiji,	Survey for Project Identification	11
Kiribati,	buttoy for trojust identification	**
Vanuatu,		
Western Samoa		
Fiji,	Survey for Economic and Technical Cooperation	11
Tonga,	dutto, tot months and advition du political	
Western Samoa		
Cook	Survey for Mineral Resources Exploration in the South Pacific	8
Islands.	Offshore area	ū
Kiribati,	Varyanda V. M. Vill	
Tuvalu		
UNSPECIFIED		
	the Page 18 to the Control of the Co	100
Malaysia, Pakistan,	Survey for Project Identification in Mining and Industry	
Thailand, Egypt,		
Guyana, Mexico		•
• • • • • • • • • • • • • • • • • • • •		

AREA COUNTRY	NAME OF DEVELOPMENT SURVEY	CLASSIFIED NO.
Egypt, Oman, Kenya, Tanzania	Survey for Project Follow-up in Mining and Industry	
Morocco, Kenya, Thailand	Survey for Project Follow-up in Mineral Resources Exploration	÷
China, Mali, Malawi, Niger, Mexico, Bolivia, Papua New Guinea	Survey for Project Identification in Mineral Resources Exploration	e e e e e e

## Chapter 2.

## Grant Aid Programme

#### 1. Outline

The programme is aimed at facilitating Japan's grant aid cooperation to developing countries in accordance with international agreements.

The grant aid cooperation is one form of extending financial assistance without repaying obligation. This category includes general grant aid, fisheries grant aid, food assistance, assistance for increased food production, etc. Of these, the Agency deals with general grant aid, fisheries grant aid and assistance for increased food production which are closely related to technical cooperation.

The general grant aid is to offer funds needed to improve or expand the facilities such as technical cooperation centres, hospitals, schools, research institutes and others, while the fisheries assistance is intended to help improve or expand fisheries training facilities including training boats.

The facilities closely related to technical cooperation include vocational training centres and others which are needed for the realization of technical cooperation, facilities to be improved according to the basic design made by Japanese survey teams and facilities used for technology transfer from Japan through dispatch of Japanese experts overseas and acceptance of overseas trainees.

Aid for increased food production is extended to solve the food shortage problem by furnishing funds to the developing countries for the purchase of fertilizers, agricultural chemicals and equipment and thus supporting their self-reliant efforts to increase their food production.

Major activities of the Agency under this cooperation programme are: (1) basic design study as part of technical cooperation through dispatch of survey teams to examine and assess the technical and economic viability of the project, to make general layout and design and to estimate cost of the project; (2) liaison, consultation and good offices in regard to the contracts concluded between a developing country and a Japanese private enterprise, including study of specifications of facilities and equipment to be offered from Japan and examination of the contents of contracts; (3) liaison, consultation and arrangements with local or Japanese banks of banking agreements, examination of the contents of contracts, and studies and surveys (on-the-spot surveys and investigation of the progress of activities) so as to facilitate grant aid.

## 2. Performance in 1986

The Agency provided grant aid for 184 overseas projects, as listed below:

AREA COUNTRY	CASE	(¥ Million)
ASIA		
Bangladesh	Equipment Supply for the Improvement of Medical	303
	Equipment for the Institute of Cardiovascular Diseases	3 1844 July 1
	Construction of the Food Grain Storage	1,104
•	Equipment Supply for the Improvement of Water Supply	1,580
	System in New District Towns	in the sale
	Construction of the Meghna Bridge	1,195
	Equipment Supply for the Replacement of Weather	636
	Surveillance Radars	1.
. "	Equipment Supply for the Replacement of Medium-Wave	373
	Transmitter	
	Equipment Supply for the Improvement of the Fire	250
	Fighting and Rescue Equipment	1.1914
	Material and Equipment Supply for the Increase of	1,200
•	Food Production	
Burma	Construction of the Youth Training Centre	1,834
Dutilia	Construction of the Irrigation Technology Centre	2,429
and the second second	Material and Equipment Supply for the Increase of	2,500
1.0	Food Production	
•	Construction of Roads and Bridges	1,488
Bhutan	Material and Equipment Supply for the Increase of	200
Billian	그는 것이 하는 것이 있는 것이 없는 것이 되었다. 그 사람들은 그들은 그들은 그들은 그를 보고 있다면 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이다. 그는 것이 없는 것이 없는 것이 없는	200
	Food Production (Under the Farm Land Development Project)	666
ob to	Equipment Supply for the Agricultural Development	
China	Equipment Supply for the Establishment of Rehabilitation	2,020
	Research Centre for the Physically Disabled	1400
	Equipment Supply for the Establishment of Changehun	1,465
	Purification Facilities	1 1 1 1 1
	Construction of the Japan-China Youth Centre	1,960
	Material and Equipment Supply for the Increase of Food	500
	Production	
	Equipment Supply for the Improvement of Medical Equipment	574
	for the China-Japan Friendship Hospital	an Agent
•	Equipment Supply for the Improvement of Research	342
	Equipment of the Beijing Vegetable Research Centre	医乙酰甲酰基
India	Equipment Supply for the Improvement of Medical Equipment	1,973
	for the Sanjay Gandhi Post Graduate Institute	
4	Material and Equipment Supply for the Increase of Food	600
	Production	
Indonesia	Material Supply for the Pest and Disease Forecasting and	1,230
4	Control Project	na sa sa
	Construction of the Electronic Engineering Polytechnic	1,895
	Institute	
	Equipment Supply for the Improvement of the Volcanic	963
	Sabo Technical Centre	

AREA COUNTRY	CASE	EXPENSES (¥Million)
Indonesia	Material and Equipment Supply for the Increase of Food Production	2,400
: · · · · .	Equipment Supply for the Development of Urban Fire Prevention and Fire Fighting System	498
. i	Equipment Supply for the Improvement of Ujung Pandang Rating School	474
	Equipment Supply for Expansion of the Tropical Rain Forest Research Centre	235
Laos	Equipment Supply for Rehabilitation of Substations in the Vientiane Area	513
	Material and Equipment Supply for the Increase of Food Production	400
	Equipment Supply for the the THA NGON Rehabilitation and Rural Development	642
Malaysia	Construction of the ASEAN Poultry Disease Research and Training Centre	873
Maldives	Equipment Supply for the Telecommunications Development Project	965
Nepal	Equipment Supply for the Rural Telecommunications Network Improvement Project	2,245
	Equipment Supply for the Reinforcement of Power Distribution Network in Kathmandu Valley	490
•	Construction of the Food Storage	1,120
et e de la companya	Material and Equipment Supply for the Increase of	2,100
	Food Production	2,200
Pakistan	Equipment Supply for the Improvement Project for	1,238
r anistan	Research Equipment of H.B.J. Research Institute of Chemistry, University of Karachi	1,250
	Construction of the High Voltage and Short Circuit	106
	Testing Laboratory	
	Material and Equipment Supply for the Increase of Food Production	2,700
	Equipment Supply for the Upgrading Project for Pakistan Marine Academy	510
	Equipment Supply for the Improvement of Medical Services for Sind Acid Zone	842
	Equipment Supply for the Improvement Project for Educational Equipment of Mehran University of Engineering and Technology	1,282
	Equipment Supply for the Improvement of Roads in Frontier Areas	1,346
Philippines	Equipment Supply for the Establishment of the Food and Drug Laboratories	417
	Equipment Supply for the Establishment of the Occupational Safety and Health Centre	1,969
	Construction of the Trade Training Centre	2,432
	Equipment Supply for Development of Out-of-School Youth and Young Adults	392
en e	Equipment Supply for the Upgrading Medical Equipment of the Philippine Children's Hospital	343
	Equipment Supply for the Expansion of the Motor Vehicle Inspection System	583

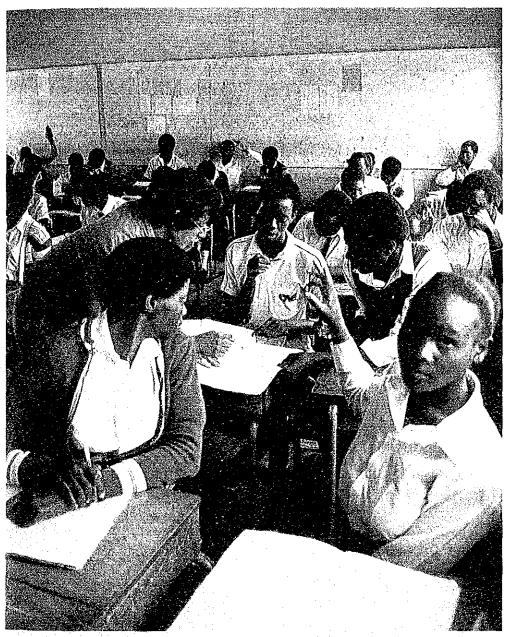
AREA OUNTRY	CASE	EXPENSI (¥ Million
	Material and Equipment Supply for the Increase of	2,900
Philippines	Food Production	
	Equipment Supply for the Environmental and Hygienic	850
*	Improvement in Metropolitan Manila	
Sri Lanka	Equipment Supply for the Establishment of the Pharmaceutical	704
Ott Lutino	Formulation Centre of Essential Drugs	
	Equipment Supply for the Establishment of the National	1,806
	Youth Centre	4 - 10
	Equipment Supply for the Establishment of the Central Store	1,343
•	for Medical Supplies and Equipment	
	Material and Equipment Supply for the Increase of	2,800
	Food Production	0.53
	Equipment Supply for the Establishment of the Plant	973
	Genetic Resources Centre	670
4	Equipment Supply for the Improvement of Drinking Water Supply	670 877
	Equipment Supply for the Improvement of the Institute of	. 0//
	Fundamental Studies	2,322
Thailand	Construction of the Social Education and Cultural Centre	712
	Equipment Supply for the Expansion of King Mongkut's	/12
	Institute of Technology	621
	Construction of National Waterworks Technology Training	021
	Institute Equipment Supply for the Establishment of the Metal-Working	1,911
	Equipment Supply for the Establishment of the Metal-working	1,011
	and Machinery Industries Development Institute Equipment Supply for the Establishment of the Centre	680
	for Maize Quality Improvement  Equipment Supply for the Establishment of the Educational	2,062
	and Public Services Broadcasting Station Channel II	2,005
	Equipment Supply for the Malaria Control Programme	467
	Material and Equipment Supply for the Increase of	3,200
	Food Production	
MIDDLE EAST		
Egypt	Construction of the Education and Culture Centre	2,966
	Equipment Supply for the Establishment Project of the	471
1	Construction Equipment Training Centre	
4.4	Equipment Supply for the Expansion Project of Cairo	134
	University Pediatric Hospital	100
	Material and Equipment Supply for the Increase of	500
	Food Production	500
North Yemen	Material and Equipment Supply for the Increase of	500
	Food Production	
	Equipment Supply for the Rural Water Supply Project	319
Могоссо	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of	319 300
Morocco	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Food Production	300
Могоссо	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Food Production Equipment Supply for the Expansion of the Institute of	
Могоссо	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Food Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir	300 641
	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Pood Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir Equipment Supply for the Construction of Dams	300 641 550
Morocco Sudan	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Pood Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir Equipment Supply for the Construction of Dams Equipment Supply for the Establishment of the	300 641
	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Pood Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir Equipment Supply for the Construction of Dams	300 641 550
	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Pood Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir Equipment Supply for the Construction of Dams Equipment Supply for the Establishment of the	300 641 550
	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Pood Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir Equipment Supply for the Construction of Dams Equipment Supply for the Establishment of the	300 641 550
	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Pood Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir Equipment Supply for the Construction of Dams Equipment Supply for the Establishment of the	300 641 550
Sudan	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Pood Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir Equipment Supply for the Construction of Dams Equipment Supply for the Establishment of the	300 641 550
Sudan	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Pood Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir Equipment Supply for the Construction of Dams Equipment Supply for the Establishment of the	300 641 550
	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Pood Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir Equipment Supply for the Construction of Dams Equipment Supply for the Establishment of the	300 641 550
Sudan	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Pood Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir Equipment Supply for the Construction of Dams Equipment Supply for the Establishment of the	300 641 550
Sudan	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of Pood Production Equipment Supply for the Expansion of the Institute of Technologies of Marine Fishery in Agadir Equipment Supply for the Construction of Dams Equipment Supply for the Establishment of the	300 641 550

		•
AREA	CASE	EXPENS (¥Millio
Sudan	Equipment Supply for the Water Supply Project in Kassala Province	646
:	Construction Project of Food Grain Warehouses  Material and Equipment Supply for the Increase of  Food Production	991 1,200
AFRICA		
Benin	Material and Equipment Supply for the Increase of Food Production	200
	Equipment Supply for the Road Improvement	330
Burkina Faso	Material and Equipment Supply for the Increase of Food Production	200
	Equipment Supply for the Water Supply for Agriculture	406
Burundi	Construction of Garage for Bus	489
	Material and Equipment Supply for the Increase of Food Production	250
Cape Verde	Equipment Supply for the Development of Equipments for Matine Wireless Communication	310
Central Africa	Material and Equipment Supply for the Increase of	250
	Food Production  Equipment Supply for the Road Improvement	4,936
Djibouti	Equipment Supply for the Road Improvement	297
Ethiopia	Material and Equipment Supply for the Increase of Food Production	650
Gambia	Equipment Supply for the Trans-Gambia Ferry Replacement	530
Ghana	Equipment Supply for the Rural Water Supply Project Material and Equipment Supply for the Increase of	889 400
	Food Production  Equipment Supply for the Rehabilitation Project of	683
Guinea	Telecommunications External Line Plant in Accra Material and Equipment Supply for the Increase of	300
	Food Production	105
	Equipment Supply for the Improvement of Electric Power Supply to the Conakry City	635
Ginea-Bissau	Material and Equipment Supply for the Increase of Food Production	150
Ivory Coast	Material and Equipment Supply for the Increase of	250
	Food Production Equipment Supply for the Improvement of Medical	492
Kenya	Instruments in the University Medical Facility of Treichville Construction of the Nursery Training Centre for Social	714
	Forestry Construction of the NYS Engineering Institute	1,574
	Material and Equipment Supply for the Increase of Food Production	800
Lesotho	Material and Equipment Supply for the Increase of Food Production	200
Liberia	Equipment Supply for the Expansion Project for the Educational Television Broadcasting Network	858
	Material and Equipment Supply for the Increase of Food Production	200
		•

AREA OUNTRY	CASE	EXPENSES (¥ Million)	
Madagascar Material and Equipment Supply for the Increase of		300	
	Food Production Equipment Supply for the Urban Roads Improvement	398	
*	Equipment Supply for the Orban Rosas amp	487	
	Material and Equipment Supply for the Increase of	350	
Malawi			
	Food Production  Equipment Supply for the Development of Agriculture	550	
Mali			
	in Baguiné Material and Equipment Supply for the Increase of	300	
	Food Production  Material and Equipment Supply for the Increase of	350	
Mauritania			
	Food Production	849	
Mauritius	Construction Project of the Marine Shrimp Culture	0.,	
	Experimental Station	1,196	
Mozambique	Equipment Supply for the Quelimane Fishing Port	1,170	
	Improvement Project	900	
	Material and Equipment Supply for the Increase of	- 100	
	Food Production	840	
Niger	Construction of Storehouses of Cereals	600	
	Material and Equipment Supply for the Increase of	000	
	Food Production	660	
	Equipment Supply for the Intensification of Urban Traffic	. 000	
	Facilities	250	
Nigeria	Material and Equipment Supply for the Increase of	250	
	Food Production	1.000	
	Equipment Supply for the Improvement Project for the	1,000	
	Facilities of Nigerian Institute for Oceanography and	* ***	
	Marine Research	100	
Rwanda	Equipment Supply for the Utilization of Subterranean	400	
	Water in the East Part of Rwanda	000	
	Material and Equipment Supply for the Increase of	300	
* *	Food Production		
	Equipment Supply for the Improvement of National Routes	353	
Senegal	Material and Equipment Supply for the Increase of	600	
	Food Production	4.1 %	
	Construction of Broadcasting Station (Radio and TV)	900 🗬	
	Equipment Supply for the Improvement of the System of	750	
	Disposal of Waste Materials		
Seychelles	Equipment Supply for the Coastal Fisheries Development	350	
	Project		
Sierra Leone	Equipment Supply for the Rutal Water Supply Project	450	
Somalia	Equipment Supply for the Rehabilitation of the Mogadishu	151	
	Water Supply Facilities		
	Equipment Supply for the Ground Water Development	631	
	Project in Lower Shabelli		
	Material and Equipment Supply for the Increase of	300	
	Food Production	4 14.4	
	Equipment Supply for the Rehabilitation, Maintenance and	286	
	Construction of Roads		
Tanzania	Equipment Supply for the Reinforcement of Electric Power	1,320	
	Distribution Network in Dar es Salaam	. ,	

AREA COUNTRY	CASE	EXPENSES (¥ Million)
Tanzania	Material and Equipment Supply for the Increase of	800
	Food Production  Equipment Supply for the Development Project for	864
	Medium Wave Radio Broadcasting Network	
	Equipment Supply for the Agricultural Transportation	400
	Reinforcement Project	
•	Equipment Supply for the Malaria Control Programme	500
Togo	Equipment Supply for the Utilization of Subterranean	150
	Water	
	Material and Equipment Supply for the Increase of	200
	Food Production	400
Uganda	Material and Equipment Supply for the Increase of	200
	Food Production	aro
Zaire	Equipment Supply for the Improvement of Equipment in	750
	the Medical Facilities of the University of Kinshasa	700
	Material and Equipment Supply for the Increase of	700
	Food Production	583
	Equipment Supply for the Road Improvement in the Area	363
	of Shiba	139
Zambia	Construction of a Junior Secondary School at Meheba	137
	Refugee Settlement Equipment Supply for the Improvement Project of Lusaka	928
	Water Supply System	720
	Material and Equipment Supply for the Increase of	800
1 .	Food Production	
	Equipment Supply for Agricultural Land Development	623
	Equipment Supply for the Human Resources Development	750
	Project	
	Material and Equipment Supply for the Increase of	200
	Food Production	
Zimbabwe	Material and Equipment Supply for the increase of	200
	Food Production	
	Equipment Supply for the Rehabilitation Project of	267
	Rural Road Network	
ATIN AMERICA	网络澳洲人名英格兰克 第二字 计二字字符	
Bolivia	Construction of the Pisciculture Development Centre	805
	Material and Equipment Supply for the Increase of	700
	Food Production	
	Equipment Supply for the Improvement of Medical Equipment	710
The Part of the	Equipment Supply for the Rehabilitation, Maintenance	510
	and Improvement of Roads	
	Material and Equipment Supply for the Increase of	200
	Pood Production	954
Chile	Construction of the Puerto Montt Petty Pishery Complex	756
Dominican	Material and Equipment Supply for the Increase of	300
Republic	Food Production	070
El Salvador	Equipment Supply for the National Emergency and	270
11=141	Reconstruction	300
Haiti	Equipment Supply for the Extinction of Malarial Fever	300

AREA COUNTRY	CASE	EXPENSES (¥ Million)
Haiti	Material and Equipment Supply for the Increase of	500
нац	Food Production	
	Fautament Supply for the Road Improvement	300
Honduras	Equipment Supply for the Model of Agricultural Community	826
Hollagies	Integral Development	
	Material and Equipment Supply for the Increase of	600
	Road Production	
	Material and Equipment Supply for the Increase of	200
	Road Production	
Paraguay	Construction of the Paraguayan-Japanese Centre for Development	935
• .	of Human Resources	700
	Material and Equipment Supply for the Increase of	500
	Food Production	4010
Peru ·	Equipment Supply for the Improvement of Potable Water	1,040
*	Supply and Sewerage Installation in Chosica City	
	Construction of the Paita Fishery Training Centre	1,241
	Material and Equipment Supply for the Increase of	200
	Food Production	•
OCEANIA		
Prince:	Equipment Supply for the Lautoka Fishing Port	1,312
Fiji	Improvement Project	
Kiribati	Construction of the Batio Bairiki Causeway and Fisheries	189
Kiribati	Channel	
Marshall	Equipment Supply for the Improvement Project of Water	403
Marshan	Supply System of Majuro Atoll	
Micronesia	Equipment Supply for the Yap Fishing Harbour Preparation	624
Micronosia	Project	777
Papua	Equipment Supply for the Improvement of Radio Broadcasting	794
New Guinea	Stations	este sugar
14844 Course	Equipment Supply for the Medical Equipment Supply Project	524
Solomon Islands	Construction of the Malaria Training and Research Centre	623
Jointh Haidhas	Equipment Supply for the Improvement of Roads	205
Tonga	Construction of the Preparation and Extension Centre for	516
t Oliga	Handicraft/Cultural Resource	
Vanautu	Construction of Regional Commercial Centre	396
Western Samoa	Construction of Terminal Facilities of Falcolo International	449
7103torii Obilioa	Airport	
	Material and Equipment Supply for the Increase of	200
	Food Production	



Japan Overseas Cooperation Volunteers Programme: a JOCV member teaching mathematics at a secondary school in Zambia

# Chapter 3.

# Japan Overseas Cooperation Volunteers Programme (JOCV)

#### 1. Outline

This programme is designed to promote and assist the cooperation extended by Japanese young people for the socio-economic progress of developing countries.

The young volunteers participating in this programme undergo training to acquire techniques and skills required by developing countries and are charged with a mission to cooperate in their nation-building.

The characteristics of the JOCV Programme are that these Japanese young people are sent in order to deepen mutual understanding through personal contacts with the peoples of developing countries and cooperate with local people in nation-building that these countries seek through economic and social development.

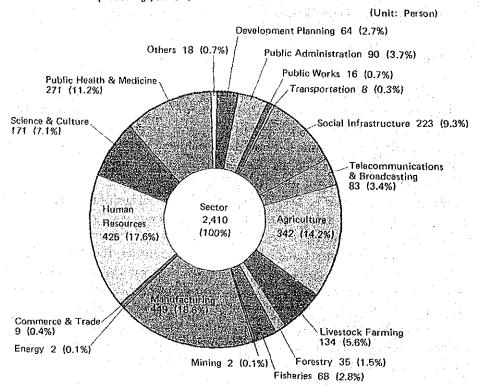
Based on the requests made by developing countries, the Agency, in cooperation with prefectural governments and private organizations, publicly recruits volunteers twice a year and give them a four-month preassignment training. After this, the volunteers are sent to developing countries for assignment.

The sector covered by this programme has a wide range and includes agriculture, forestry and fisheries, civil engineering and construction, health and hygiene, mining and manufacturing, education, sports, and other fields.

#### 2. Performance in 1986

There were 822 volunteers sent overseas in 1986, bringing the total to 2,410 including those in service from the preceding year on. The cumulative number has reached 7,248 since the JOCV programme was initiated in 1965. Of the total figure 2,410 for 1986, 886 (36.8%), the largest number, were assigned to Africa. This was followed by 745 (30.9%) to Asia, 456 (18.9%) to Latin America, 157 (6.5%) to the Middle East, 163 (6.8%) to Oceania. By country, the largest number, 174 were assigned to Kenya, followed by 156 to the Philippines and 146 to Malawi. In the distribution by sector, the largest ratio was accounted for by manufacturing with 449 (18.6%), followed by human resources with 425 (17.6%), agriculture with 342 (14.2%).

Fig. 1 Number of Japan Overseas Cooperation Volunteers Dispatched by Sector and Region (1986) (including those in service from the preceding year on)



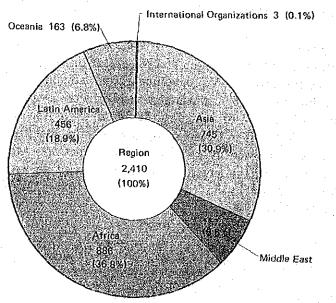
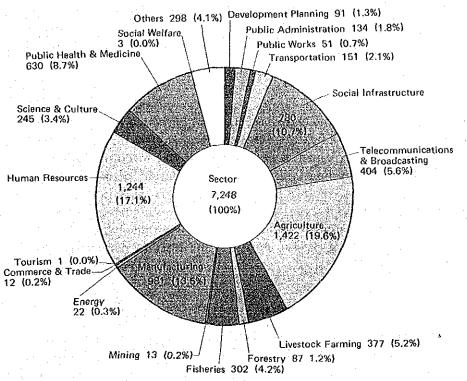


Fig. 2 Total Number of Japan Overseas Cooperation Volunteers Dispatched by Sector and Region (1956--1986)

(Unit: Person)



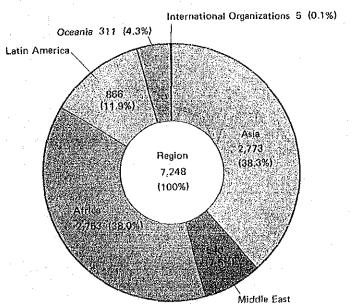
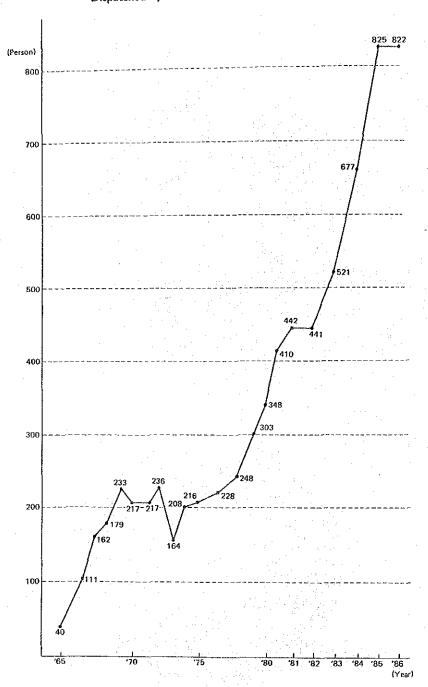


Fig. 3 Number of Japan Overseas Cooperation Volunteers Dispatched by Year



# Chapter 4.

# Development Cooperation Programme

# (Investment in and Financing of Development Projects)

#### 1. Outline

The Agency offers long-term, low-interest loans to Japanese corporations (including foreign corporations financed by Japanese firms) which require funds for improvement and expansion of facilities and for experimental projects in developing countries to promote social development, agricultural and forestry development and mining and manufacturing activities.

Such funds are used in projects which do not pay on commercial basis, e.g. improvement of related facilities, bridges and other infrastructure facilities and experimental projects such as cultivation of new crops, development of mining resources and mining activities which are risky.

#### 2. Performance in 1986

During fiscal 1986, the Agency consented to give 1,200.9 million yen for 7 experimental projects. The loans totaled 1,354.6 million yen for 30 projects. On a contract basis, loans for the expansion of facilities reached 33 million yen and those for experimental projects 1,321.6 million yen. Basic surveys and technical guidance conducted during fiscal 1986 were as follows:

Basic surveys	
Basic surveys related to facilities	2
Basic surveys related to experimental projects	15
Technical guidance	
Dispatch of experts	35
Acceptance of overseas trainees	25

# Chapter 5.

# **Emigration Services**

#### 1. Outline

Emigration of Japanese people dates back to 1868 when about 150 persons went to Hawaii. Since then, the number of emigrants to North and Latin America increased steadily. Emigration was suspended after the outbreak of World War II but was resumed after the war, and the first postwar emigrants left Japan for Brazil in 1952.

Japanese emigrants' activities in their new countries have been diversified from agricultural to industrial fields. In the future, emigration connected with economic cooperation and technical assistance projects may be expected.

The agency is carrying out the following activities to further promote the

emigration of Japanese people:

(1) Diffusion of information and guidance on overseas emigration

(2) Various types of training and study meeting for those wishing to emigrate

(3) Improvement of living environment in the countries where the Japanese are emigrating

(4) Guidance and counselling to the prospective emigrants in such fields as agricultural management, technical services and financial aids

#### 2. Performance in 1986

During fiscal 1986, 91 Japanese emigrated to four Latin American countries — Brazil, Paraguay, Argentina and Bolivia. Qualification certificates for the emigration to Canada were issued to 18 persons. Australia accepted 37 persons.

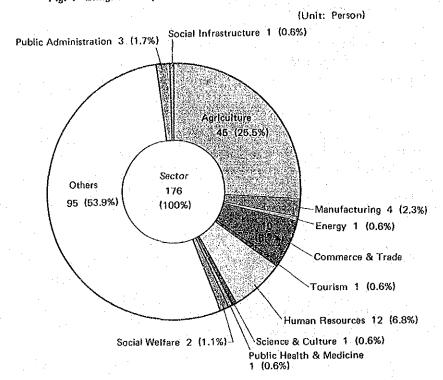
Consultations about overseas emigration totaled 3,946 cases during fiscal 1986 (606 cases for Latin America, 2,093 cases for North America and Australia, and 1,247 for other destinations). Subjects of consultation cover a wide range, including the latest information on social conditions of the destination countries and the type of emigration.

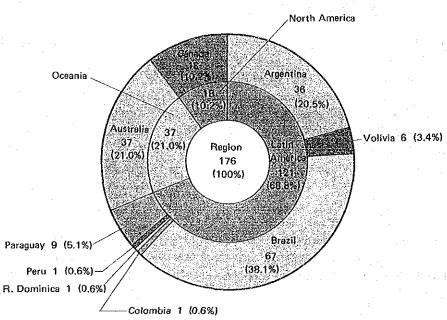
As for the assistance to Japanese emigrants abroad, the Agency extended financial aids to them for improvement of medical services, which are the basis for stabilization of their lives, for educational facilities, for construction of roads and for electricity supply for settlements. Loans were also provided for agricultural management.

The Overseas Development Youth Programme: This programme was initiated in 1985 for the purpose of recruiting skilled young Japanese who are interested in overseas emigration and providing them with an opportunity to live and work in South America for three years before deciding to or not to live there permanently.

During fiscal 1986, 29 young Japanese dispatched to 6 countries: Brazil 15, Argentina 5, Bolivia 3, Paraguay 4, Peru 1 and Dominican Republic 1.

Fig. 1 Emigration by Sector and Region (1986)





# Chapter 6.

# Recruiting and Training of Qualified Japanese Experts for Technical Cooperation

#### 1. Outline

While there are many capable persons in technical fields in Japan, the present employment system is hampering the recruitment of qualified experts for assignment to overseas technical cooperation activities. To improve this situation, the Agency has adopted the Experts Registration System and the Experts Pooling System which are aimed at pooling experts who have returned to Japan after completion of their overseas assignments or other experts who have expressed their intention to be dispatched abroad. For the smooth recruitment of qualified persons, the Agency has also adopted the Domestic Wage Supplement System for local public bodies and private enterprises which are cooperative in releasing their employees for overseas assignment.

To further improve the quality of experts, the Agency conducts pre-departure training courses in foreign languages and in technical fields, and medium-term training courses in Japan and abroad, which provide extensive training on foreign languages and specialized techniques for experts to be assigned overseas in the near future, and also long-term training courses at well-known research institutes or universities in foreign countries to train highly qualified technical experts who will seek their career in technical cooperation.

The Agency established the Institute for International Cooperation as an affiliated organ in Oct. 1983. The Institute recruits and trains Japanese experts who will seek their career in technical cooperation. It also gathers information on the experiences and performances of Japanese experts in cooperation activities and on the basis of it, studies effective methods of technology transfer to developing countries.

#### 2. Performance in 1986

In fiscal 1986 the institute recruited 5 career experts as development specialists who will be involved in JICA's cooperation activities throughout their careers.

# This programme was conducted as follows:

# Orientation and Training Programmes in 1986

Programmes	Participants
Pre-Departure Orientation Programme	777
Individual Language Training Programme	14
Technical Training Programme	81
Medium-term Training Programme	120
Overseas Training Programme	23
Special Technical Training Programme	
Comprehensive Training Programme	73
International Cooperation Seminar	1,214
Total	2,309 Persons