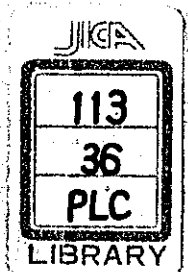


**JICA'S TECHNICAL COOPERATION**  
**IN**  
**MALAYSIA**

1982



**JAPAN INTERNATIONAL COOPERATION AGENCY**



国際協力事業団	
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## Introduction

The Japan International Cooperation Agency (JICA) is a governmental organization established in 1974. JICA performs activities related to international cooperation with developing countries.

In order to implement the work smoothly and effectively, JICA obtains extensive cooperation from governmental organs, local autonomous bodies and private enterprises in Japan, keeping in close contact with governments of developing countries and international organizations.

The following is an outline of the operations carried out by JICA:

- (1) to extend technical cooperation to developing areas on a government-to-government basis;
- (2) to carry out the work necessary for the promotion of the activities of the Japan Overseas Cooperation Volunteers;
- (3) to supply funds necessary for the improvement of the facilities related to social development, development of agriculture, forestry, mining and manufacturing, or funds necessary for pilot projects;
- (4) to provide services necessary for smooth emigration of Japanese to South America or other parts of the world;
- (5) to recruit and provide training to qualified personnel for technical cooperation; and
- (6) to provide new services for the implementation of Capital Grant Assistance to developing areas.

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## Outline of JICA's Technical Cooperation

### 1. Training Program for Overseas Participants

This program provides overseas participants with technical training in various fields. There are two types of training designed at the request of developing countries; a group training program and an individual training program.

Participants study at JICA training centers, government research organizations, universities and/or training centers of private enterprises.

### 2. Expert Assignment Program

JICA sends Japanese experts to developing countries or international organizations. The experts participate in planning, execution, evaluation and make recommendations for development programs in these government organizations, research institutes, or training centers.

### 3. Equipment Supply Program

In order to make technical cooperation more effective, JICA supplies equipment necessary for the activities of JICA's ex-trainees, Japanese experts, and Japan Overseas Cooperation Volunteers.

The equipment includes machinery, machine tools, etc.

### 4. Project-Type Technical Cooperation Programs

"Project-type" technical cooperation programs combine the above-mentioned three forms of programs and are carried out systematically and comprehensively in the countries concerned.

Under these types of programs, JICA provides technical assistance by dispatching survey teams, assigning experts, supplying equipment, accepting counterparts related to projects, and performing follow-up evaluation after the completion of the projects.

These types of programs include the Overseas Technical Cooperation Center Program, the Health and Medical Cooperation Program, the Agriculture, Forestry and Fisheries Cooperation Program, as well as the Industrial Development Cooperation Program.

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#### 4.1 Overseas Technical Cooperation Center Program

Overseas technical cooperation centers are designed to provide training for engineers and for skilled workers whose services are essential to the socio-economic progress of developing countries.

This program aims at development of manpower resources, development and improvement of production methods, and the development of vocational training.

#### 4.2 Health and Medical Cooperation Program

This program is designed to offer medical assistance to developing countries whose people suffer from epidemic or endemic diseases, and emphasizes cooperation in the bettering of the citizens' through the improvement of public hygiene and environment.

#### 4.3 Agriculture, Forestry and Fisheries Development Cooperation Program

This program intends to improve living standards through production increases in the fields of agriculture, forestry and fisheries.

The forms of assistance are technical guidance in agricultural extension centers or model extension farms; comprehensive guidance in regional infrastructure of designated project areas; and assistance in enhancing the agricultural research and development capacity of recipient countries.

#### 4.4 Industrial Development Cooperation Program

This program aims at effective utilization of locally available natural or human resources for the development of various mining and manufacturing industries which will expand employment opportunities.

#### 5. Development Survey Program

The "Development survey program" is an advisory service which dispatches survey teams to development projects in the public sector.

#### 6. Development Cooperation Program

JICA offers long-term and low-interest loans to Japanese corporations (including foreign corporations financed by Japanese firms) which require funds for improvement and expansion of facilities, or funds for experimental projects to promote development in various sectors.

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7. Japan Overseas Cooperation Volunteers Program

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

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

Table 1. Total Expenditures by Type

Upper figure: 1,000 Yen  
Lower figure: U.S.\$1,000

Type	Total <sup>3)</sup> F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981 <sup>4)</sup>	Cumulative Total <sup>4)</sup>
Training Program	869,647	203,715	215,040	268,881	296,208	1,853,491
(Number of Participants)	2,842 (1,061)	968 (130)	981 (132)	1,186 (140)	1,343 (125)	7,320 (1,588)
Expert Assignment Programs <sup>1)</sup>	768,967	291,879	296,705	299,642	519,283	2,176,476
(Number of Japanese Experts)	2,567 (159)	1,387 (28)	1,354 (21)	1,321 (36)	2,355 (40)	8,984 (284)
Survey Mission	877,030	531,565	994,892	940,855	1,199,570	4,543,912
(Number of Mission Members)	2,934 (357)	2,525 (130)	4,539 (157)	4,149 (205)	5,439 (238)	19,586 (1,087)
Equipment Supply <sup>2)</sup>	747,975	260,540	254,022	253,326	242,606	1,758,469
	2,467	1,238	1,159	1,117	1,100	7,081
Japan Overseas Cooperation Volunteers	1,090,371	170,821	178,921	233,665	315,780	1,989,558
(Number of Japanese Volunteers)	3,539 (339)	812 (26)	816 (20)	1,030 (44)	1,432 (31)	7,629 (460)
Others	32,074	23,157	29,694	39,174	43,316	167,415
	115	110	136	173	197	731
Grand Total	4,386,064 14,464	1,481,677 7,040	1,969,274 8,985	2,035,543 8,976	2,616,763 11,866	12,489,321 51,331

Note: The following exchange rates were used: 1954-1971 ¥360.00/US\$ 1972 ¥308.00/US\$ 1973 ¥272.84/US\$  
1974 ¥291.49/US\$ 1975 ¥297.04/US\$ 1976 ¥296.50/US\$  
1977 ¥268.51/US\$ 1978 ¥210.47/US\$ 1979 ¥219.17/US\$  
1980 ¥226.79/US\$ 1981 ¥220.53/US\$

- 1) Includes expenditures of Project-type technical cooperation programs.
- 2) Includes expenditures of Project-type technical cooperation programs.
- 3) F.Y. indicates the Fiscal Year of Japan which starts on April 1 every year.
- 4) Figures of F.Y. 1981 and Cumulative Total are provisional.



Table 2. Total Expenditures by Program

Upper figure: 1,000 Yen  
Lower figure: U.S.\$1,000

Program	Total F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	* F.Y.1981	* Cumulative Total
1. Training Program	867,763 2,835	202,709 963	215,040 981	268,881 1,186	296,106 1,343	1,850,499 7,308
2. Expert Assignment Program	520,241 1,698	118,380 563	122,871 561	156,241 689	372,210 1,688	1,289,943 5,199
3. Equipment Supply Program	54,260 169	17,960 85	13,572 62	50,755 224	13,408 61	149,955 601
4. Overseas Technical Cooperation Center Program	614,661 2,163	200,079 951	315,241 1,438	279,430 1,233	328,355 1,489	1,737,766 7,274
5. Health and Medical Cooperation Program	46,258 131	966 5	542 2	6 -	1,001 4	48,773 142
6. Agriculture, Forestry and Fisheries Cooperation Program	294,143 924	225,238 1,070	97,071 443	65,834 290	83,312 378	765,598 3,105
7. Industrial Development Cooperation Program	3,025 10	- -	- -	- -	- -	3,025 10
8. Development Survey Program	729,728 2,455	502,954 2,389	970,229 4,426	908,430 4,005	1,154,047 5,233	4,265,388 18,508
9. Development Cooperation	16,185 59	13,771 66	12,845 59	16,197 71	7,228 33	66,226 288
10. Japan Overseas Cooperation Volunteers	1,195,143 3,870	176,463 838	192,169 877	250,595 1,105	315,780 1,432	2,130,150 8,122
11. Others	44,657 150	23,157 110	29,694 136	39,174 173	45,316 205	181,998 774
Grand Total	4,386,064 14,464	1,481,677 7,040	1,969,274 8,985	2,035,543 8,976	2,616,763 11,866	12,489,321 51,331

Note: Refer to Table 1 for exchange rates.

\* Provisional

Table 3. Training Program for Overseas Participants  
(Number of Malaysian Participants)

Number of persons

Sector	Total F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981 <sup>*</sup>	Cumulative Total <sup>*</sup>
1. Planning and Administration	182	21	21	22	20	266
2. Public Works and Utilities	283	50	46	45	49	473
3. Agriculture, Forestry and Fisheries	246	21	24	19	15	325
4. Mining and Industry	85	19	15	19	20	158
5. Energy	27	-	-	8	-	35
6. Commerce and Tourism	41	6	6	6	3	62
7. Human Resources	102	7	6	11	2	128
8. Public Health and Medicine	55	4	11	7	5	82
9. Social Welfare	0	1	1	2	10	14
10. Others	40	1	2	1	1	45
<b>Grand Total</b>	<b>1,061</b>	<b>130</b>	<b>132</b>	<b>140</b>	<b>125</b>	<b>1,588</b>

\* Provisional

Table 4. Expert Assignment Program (Number of Japanese Experts)<sup>1)</sup>

Number of persons

Sector	Total		F.Y.1978	F.Y.1979	F.Y.1980	* Cumulative Total *	
	F.Y.1954-F.Y.1977					F.Y.1981	
1. Planning and Administration	3 ( 2)	- (-)	- (-)	1 ( -)	12 (12)	16 ( 14)	
2. Public Works and Utilities	68 ( 49)	10 (7)	9 (6)	11 ( 8)	8 ( 8)	106 ( 78)	
3. Agriculture, Forestry and Fisheries	42 ( 35)	2 (-)	2 (1)	7 ( 1)	4 ( 3)	57 ( 40)	
4. Mining and Industry	11 ( 11)	13 (1)	8 (2)	12 ( 1)	13 ( 6)	57 ( 21)	
5. Energy	- ( -)	- (-)	- (-)	2 ( 2)	- ( -)	2 ( 2)	
6. Commerce and Tourism	5 ( 5)	- (-)	- (-)	- ( -)	- ( -)	5 ( 5)	
7. Human Resources	14 ( 3)	1 (-)	1 (-)	3 ( 3)	1 ( 1)	20 ( 7)	
8. Public Health and Medicine	12 ( -)	2 (-)	1 (-)	- ( -)	2 ( -)	17 ( -)	
9. Social Welfare	- ( -)	- (-)	- (-)	- ( -)	- ( -)	- ( -)	
10. Others	4 ( 4)	- (-)	- (-)	- ( -)	- ( -)	4 ( 4)	
<b>Grand Total</b>	<b>159 (109)</b>	<b>28 (8)</b>	<b>21 (9)</b>	<b>36 (15)</b>	<b>40 (30)</b>	<b>284 (171)</b>	

Note: 1) Includes number of experts of Project-type technical cooperation programs.

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2) The figures in parenthesis indicate the number of experts assigned under the Independent Expert Dispatch Program.

Table 5. Japan Overseas Cooperation Volunteers Program  
(Number of Japanese Volunteers)

Number of persons

Sector	Total					* Cumulative Total
	F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	
1. Planning and Administration	5	-	-	-	1	6
2. Public Works and Utilities	61	7	7	6	3	84
3. Agriculture, Forestry and Fisheries	84	8	5	15	13	125
4. Mining and Industry	55	8	-	-	7	70
5. Energy	7	-	-	-	-	7
6. Commerce and Tourism	-	-	-	-	-	-
7. Human Resources	86	1	3	7	6	103
8. Public Health and Medicine	12	2	1	1	1	17
9. Social Welfare	1	-	-	-	-	1
10. Others	28	-	4	15	-	47
<b>Grand Total</b>	<b>339</b>	<b>26</b>	<b>20</b>	<b>44</b>	<b>31</b>	<b>460</b>

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Table 6. Equipment Supply Program (Expenditures)

1,000 Yen

Equipment	F.Y.1978	F.Y.1979	F.Y.1980	* F.Y.1981	* Total
1. Rice Crop Research Equipment	17,960	-	-	-	17,960
2. Geological Survey Equipment	-	9,451	-	-	9,451
3. Rice Production Equipment	-	4,121	1,378	-	5,499
4. Atomic Energy Research	-	-	44,944	-	44,944
5. Equipment for Coastal Fisheries Extension	-	-	4,433	1,584	6,017
6. Scanning Electron Microscope	-	-	-	10,478	10,478
7. Equipment Survey	-	-	-	1,346	1,346
<b>Total</b>	<b>17,960</b>	<b>13,572</b>	<b>50,755</b>	<b>13,408</b>	<b>95,695</b>

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Table 7. Project-Type Technical Cooperation Programs

Table 7.1 Overseas Technical Cooperation Centre Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
1. MARA Vocational Training Institute, Kuala Lumpur	Jan.1973-Jan.1976	89,229 *	2	7
2. Marine Engineering Training Project	Dec.1973-Jun.1982	213,507 *	25	19
3. MARA Vocational Training Institute, Johor Bharu	Sept.1976-Sept.1981	173,453 *	12	8
4. Metal Industry Technology Centre	Aug.1978-Aug.1982	518,227 *	27	22
5. Metrology Laboratory	Dec.1981-Dec.1985	0	0	0
<b>Total</b>		<b>994.416 *</b>	<b>66</b>	<b>56</b>

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Table 7.2 Health and Medical Cooperation Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
1. Medical Diagnostic Team	Apr.1966-Mar.1968	5,458	7	-
2. General Hospital of Maraya University	F.Y.1967, 1968	3,518	2	-
3. Other Equipments	-	20,631	-	-
4. Medical Advisor Experts	F.Y.1976, 1978, 1979, 1981	-	8	-
<b>Total</b>		<b>29,607</b>	<b>17</b>	<b>-</b>

Table 7.3 Agriculture, Forestry and Fisheries Cooperation Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
1. Paddy Mechanization Training Project	Dec.1970-Dec.1975	127,040	3	-
2. Technical Cooperation Project on National Water Management Training	Sept.1977-Sept.1982	* 210,679	19	10
<b>Total</b>		* 337,719	22	10

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Table 8: Development Survey Program (Expenditures)

1,000 Yen

Project	Total F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	* F.Y.1981	* Cumulative Total
1. Malacca & Singapore Strait (Malaysia and others)	(32,129)	(44,568)	33,162	22,481	4,019	(76,697) 59,662
* Tidal and Current Studies	(32,129)	(34,573)	33,162	22,481	4,019	(66,702) 59,662
* Hydrographic Survey in the One Fathan Bank Area	-	(9,995)	-	-	-	(9,995)
2. Penang Sewerage and Drainage System	193,536	141,366	-	-	-	334,902
3. Trengganu Tengah Swamp Area Agricultural Develop- ment Project	8,223	103,979	114,157	-	-	226,359
4. Beluru/Long Lama/Limbang Trunk Road Construction Project in Sarawak	4,015	142,291	39,375	491	-	186,172
5. Urban Transportation Project in Georgetown and Butterworth	-	13,110	183,453	185,686	114,381	496,630
6. National Water Resources Development Project	-	4,520	62,741	227,440	324,967	619,668
7. Reclamation Project of Ex-Mining Land for Housing Development	-	2,328	45,484	71,880	13,294	132,986

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(Continued)

1,000 Yen

Project	Total F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	* F.Y.1981	* Cumulative Total
8. Water Resources Development of East Sabah	-	5,568	185	-	-	5,753
9. Economic and Technical Cooperation Survey (Malaysia and others)	-	1,267	1,388	1,394	1,706	5,755
10. Feasibility and Master Plan Studies for Alor Star and its Urban Environs Sewerage Project	-	24,518	128,394	83,761	327	237,000
11. Submarine Cable Project (Malaysia and others)	2,665	49,830	-	-	-	52,495
12. Kelantan Port Development Project	-	-	72,366	117,755	-	190,121
13. Flood Forecasting and Warning System in Saba and Sarawak	-	-	51,035	6,098	-	57,133
14. Feasibility Study for VHF/FM Broadcast Coverage for Peninsular Malaysia	-	-	2,781	51,459	84	54,324
15. Bitulu Deepwater Port Project	-	-	14,481	-	-	14,481

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(Continued)

1,000 Yen

Project	Total F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	* F.Y.1981	* Cumulative Total
16. Transport Study for Johor Bharu	-	-	-	3,224	152,325	155,549
17. Sewerage and Drainage of Klan, Port Klan and its Urban Environment	-	-	-	30,053	155,988	186,041
18. Kinabatangan River Basin Comprehensive Development Project	-	-	-	62,190	86,193	148,383
19. Tatau-Kapit Trunk Road Construction Project	-	-	-	-	5,012	5,012
20. Master Plan Study on the Integrated Regional Development of South Trengganu	-	-	-	-	8,271	8,271
21. Basic Design Survey for the Fisheries Research and Training Vessel	-	-	-	-	14,446	14,446
22. Feasibility Study for VHF/FM Broadcast Coverage for the States of Sabah & Sarawak	-	-	-	-	3,857	3,857

\* Provisional

(Continued)

1,000 Yen

Project	Total F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	* F.Y.1981	* Cumulative Total
23. Project Finding for Industry, Mining and Power (Malaysia and others)	488	591	795	471	384	2,729
24. Lebir River Hydroelectric Power Project	-	13,586	164,131	3,939	1,499	183,155
25. Feasibility Study on ASEAN Area Fertilizer Project	-	-	56,301	5,159	-	61,460
26. Tekai River Hydroelectric Power Project	-	-	-	34,949	218,107	253,056
27. Establishment of Kelantan Cement Factory	-	-	-	-	47,163	47,163
28. Project Finding for Collaborative Mineral Exploration	-	-	-	-	2,024	2,024
29. Others	520,801	-	-	-	-	520,801
<b>Total</b>	<b>729,728</b>	<b>502,954</b>	<b>970,229</b>	<b>908,430</b>	<b>1,154,047</b>	<b>4,265,388</b>

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Table 9. Development Cooperation Program (Expenditures)

1,000 Yen

Project	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981*	Cumulative Total*
1. Basic Survey					
(1) Sinker Species Development	2,690	1,231	-	-	3,921
(2) Sabah Agricultural Development Cooperation Project	8,935	8,510	673	5,267	23,385
(3) Palm Species Development	-	-	5,210	403	5,613
(4) Malay Cacao Development	-	-	5,677	-	5,677
(5) Sago Palm Development (Malaysia and others)	-	-	2,549	-	2,549
2. Financial Cooperation Survey	934	2,292	2,088	1,353	6,667
3. Technical Guidance Service	1,212	812	-	205	2,229
<b>Total</b>	<b>13,771</b>	<b>12,845</b>	<b>16,197</b>	<b>7,228</b>	<b>50,041</b>

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