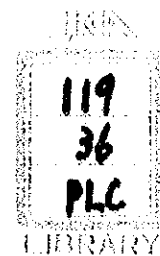


**JICA'S TECHNICAL COOPERATION
IN
THE REPUBLIC OF SINGAPORE**

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.

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.

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.

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 3) F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	4) F.Y.1981	4) Cumulative Total
Training Program	584,494	164,552	195,216	203,073	327,018	1,474,353
(Number of Participants)	1,955 (666)	782 (93)	891 (106)	895 (93)	1,483 (152)	6,006 (1,110)
Expert Assignment Programs ¹⁾	857,494	79,150	179,399	219,314	373,015	1,708,372
(Number of Japanese Experts)	2,661 (127)	376 (3)	818 (32)	967 (48)	1,691 (38)	6,513 (248)
Survey Mission	62,379	180,610	5,447	77,664	79,285	405,385
(Number of Mission Members)	180 (15)	858 (40)	25 (6)	342 (27)	360 (28)	1,765 (116)
Equipment Supply ²⁾	299,092	252,206	258,860	20,533	360,221	1,190,912
	871	1,198	1,181	91	1,633	4,974
Japan Overseas Cooperation Volunteers	-	-	-	-	-	-
(Number of Japanese Volunteers)	(-)	(-)	(-)	(-)	(-)	(-)
Others	7,791	8,638	8,047	12,191	10,284	46,951
	28	41	37	54	47	207
Grand Total	1,811,250 5,695	685,156 3,255	646,969 2,952	532,775 2,349	1,149,823 5,214	4,825,973 19,465

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	584,494 1,955	164,552 782	195,216 891	203,073 895	327,018 1,483	1,474,353 6,006
2. Expert Assignment Program	703,115 2,238	80,161 381	72,953 333	82,908 365	141,990 644	1,081,127 3,961
3. Equipment Supply Program	36,556 111	4,459 21	- -	- -	- -	41,015 132
4. Overseas Technical Cooperation Center Program	382,937 1,073	251,354 1,194	367,888 1,679	162,292 716	597,345 2,709	1,761,816 7,371
5. Health and Medical Cooperation Program	1,769 5	1,161 5	- -	993 4	- -	3,923 14
6. Agriculture, Forestry and Fisheries Cooperation Program	- -	- -	- -	- -	- -	- -
7. Industrial Development Cooperation Program	- -	- -	- -	- -	- -	- -
8. Development Survey Program	56,057 159	174,831 831	1,844 8	71,310 315	72,979 331	377,021 1,644
9. Development Cooperation	652 2	- -	1,021 4	8 -	205 -	1,886 6
10. Japan Overseas Cooperation Volunteers	- -	- -	- -	- -	- -	- -
11. Others	45,670 152	8,638 41	8,047 37	12,191 54	10,284 47	84,830 331
Grand Total	1,811,250 5,695	685,156 3,255	646,969 2,952	532,775 2,349	1,149,821 5,214	4,825,971 19,465

Note: Refer to Table 1 for exchange rates.

* Provisional

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

Number of persons

Sector	Total F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981 *	Cumulative Total *
1. Planning and Administration	153	22	20	26	32	253
2. Public Works and Utilities	175	33	45	26	44	323
3. Agriculture, Forestry and Fisheries	55	2	4	5	2	68
4. Mining and Industry	69	10	9	6	13	107
5. Energy	5	-	-	5	-	10
6. Commerce and Tourism	12	4	3	2	3	24
7. Human Resources	71	17	15	14	12	129
8. Public Health and Medicine	45	4	8	6	8	71
9. Social Welfare	2	1	1	2	32	38
10. Others	79	-	1	1	6	87
Grand Total	666	93	106	93	152	1,110

* Provisional

Table 4. Expert Assignment Program (Number of Japanese Experts)¹⁾

Number of persons

Sector	Total F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	* F.Y.1981	* Cumulative Total
1. Planning and Administration	4 (4)	- (-)	1 (-)	7 (2)	9 (9)	21 (15)
2. Public Works and Utilities	50 (48)	2 (2)	10 (3)	10 (10)	6 (6)	78 (69)
3. Agriculture, Forestry and Fisheries	5 (5)	- (-)	- (-)	- (-)	- (-)	5 (5)
4. Mining and Industry	16 (16)	- (-)	2 (-)	- (-)	- (-)	18 (16)
5. Energy	- (-)	- (-)	- (-)	1 (1)	- (-)	1 (1)
6. Commerce and Tourism	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
7. Human Resources	40 (18)	- (-)	14 (4)	18 (15)	23 (5)	95 (42)
8. Public Health and Medicine	7 (5)	1 (-)	5 (5)	6 (4)	- (-)	19 (14)
9. Social Welfare	- (-)	- (-)	- (-)	6 (6)	- (-)	6 (6)
10. Others	5 (5)	- (-)	- (-)	- (-)	- (-)	5 (5)
Grand Total	127 (101)	3 (2)	32 (12)	48 (38)	38 (20)	248 (173)

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

* Provisional

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

Table 6. Project-Type Technical Cooperation Programs

Table 6.1 Overseas Technical Cooperation Centre Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
1. Prototype Production and Training Centre	Oct.1966-Oct.1972	194,738	15	30
2. Japan - Singapore Training Centre	Jun.1978-Jun.1983	581,009	34	18
3. Japan - Singapore Institute of Software Technology	Dec.1980-Dec.1985	286,736	12	6
Total		1,062,483*	61	54

* Provisional

Table 7. 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 and Singapore Straits (Singapore and others)	(32,131)	(44,568)	(11,042)	22,481	4,019	(87,741) 26,500
* Tidal and Current Studies	(32,131)	(34,573)	(11,042)	22,481	4,019	(77,746) 26,500
* Hydrography Survey in the One Fathan Bank Area	-	(9,995)	-	-	-	(9,995)
2. Submarine Cable Project (Singapore and others)	2,665	49,830	-	-	-	52,495
3. Economic and Technical Cooperation Survey (Singapore and others)	780	829	1,047	1,256	1,515	5,427
4. Dredging of Shallows Project	-	124,172	-	-	-	124,172
5. Follow up Survey (Singapore and others)	-	-	797	-	-	797
6. Environmental Effects of Coal-Fire Power Station and Integrated Steel Mill	-	-	-	47,102	67,061	114,163
7. Project Finding for Industry, Mining and Power (Singapore and others)	-	-	-	471	384	855

* 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
8. Others	52,612	-	-	-	-	52,612
Grand Total	56,057	174,831	1,844	71,310	72,979	377,021

* Provisional

Table 8. Development Cooperation Program (Expenditures)

1,000 Yen

Project	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981 *	Cumulative Total *
1. Financing Cooperation Survey	-	1,021	8	-	1,029
2. Technical Guidance	-	-	-	205	205
Grand Total	-	1,021	8	205	1,234

* Provisional

