

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

1983



Japan International Cooperation Agency



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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.

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.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982 ⁴⁾	Cumulative Total ⁴⁾
Training Program	749,046	195,216	203,073	312,803	290,816	1,750,954
(Number of Participants)	2,737 (759)	891 (106)	895 (93)	1,418 (158)	1,167 (130)	7,108 (1,246)
Expert Assignment Programs ¹⁾	936,644	179,399	219,314	342,719	464,097	2,142,173
(Number of Japanese Experts)	3,037 (130)	818 (32)	967 (48)	1,554 (38)	1,863 (41)	8,239 (289)
Survey Mission	242,989	5,447	77,664	89,145	96,090	511,335
(Number of Mission Members)	1,038 (55)	25 (6)	342 (27)	404 (28)	386 (36)	2,195 (152)
Equipment supply ²⁾	551,298	258,860	20,533	386,637	33,016	1,250,344
	2,069	1,181	91	1,753	133	5,227
Japan Overseas Cooperation Volunteers	-	-	-	-	-	-
(Number of Japanese Volunteers)	(-)	(-)	(-)	(-)	(-)	(-)
Others	16,429	8,047	12,191	11,363	34,044	82,074
	69	37	54	51	137	348
Grand Total	2,496,406 8,950	646,969 2,952	532,775 2,349	1,142,667 5,180	918,063 3,686	5,736,880 23,117

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\$ 1982 ¥249.05/US\$

- 1) Includes expenditures of Project-type technical cooperation programs
- 2) Including 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. 1982 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. 1978	F.Y. 1979	F.Y. 1980	F.Y. 1981	F.Y. 1982 *	Cumulative Total*
1. Training Program	749,046 2,737	195,216 891	203,073 895	316,610 1,436	290,816 1,167	1,754,761 7,126
2. Expert Assignment Program	783,276 2,619	72,953 333	82,908 365	138,112 626	145,811 586	1,223,060 4,529
3. Equipment Supply Program	41,015 132	- -	- -	- -	486 2	41,501 134
4. Overseas Technical Coopera- tion Center Program	634,291 2,267	367,888 1,679	162,292 716	597,490 2,709	371,122 1,490	2,133,083 8,861
5. Health and Medical Cooperation Program	2,930 10	- -	993 4	- -	- -	3,923 14
6. Agriculture, Forestry and Fisheries Cooperation Program	- -	- -	- -	- -	- -	- -
7. Industrial Development Cooperation Program	- -	- -	- -	- -	- -	- -
8. Development Survey Program	230,888 990	1,844 8	71,310 315	76,758 348	53,400 214	434,200 1,875
9. Development Cooperation	652 2	1,021 4	8 -	205 -	1,799 7	3,685 13
10. Japan Overseas Cooperation Volunteers	- -	- -	- -	- -	- -	- -
11. Others	54,308 193	8,047 37	12,191 54	13,492 61	54,629 220	142,667 565
Grand Total	2,496,406 8,950	646,969 2,952	532,775 2,349	1,142,667 5,180	918,063 3,686	5,736,880 23,117

Note: Refer to Table 1 for exchange rates.

* Provisional

Table 3. Training Program for Overseas Participants
(Number of Singapore Participants)¹⁾

Number of persons

Sector	Total F.Y.1954-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
1. Planning and Administration	175	20	26	32	36	289
2. Public Works and Utilities	208	45	26	46(2 ^a)	30(5 ^a)	355(7 ^a)
3. Agriculture, Forestry and Fisheries	57	4	5	3(1 ^a)	2	71(1 ^a)
4. Mining and Industry	79	9	6	16(3 ^a)	12	122(3 ^a)
5. Energy	5	-	5	-	3	13
6. Commerce and Tourism	16	3	2	3	5	29
7. Human Resources	88	15	14	12	16	145
8. Public Health and Medicine	49	8	6	8	4	75
9. Social Welfare	3	1	2	32	18	56
10. Others	79	1	1	6	4	91
Grand Total	759	106	93	158	130(5 ^a)	1,246(11 ^a)

Note: 1) Includes number of participants of the third country training programs^{a)}

* Provisional

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

Number of persons

Sector	Total F.Y.1955-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982	Cumulative Total*
1. Planning and Administration	4(4) ²⁾	1(-)	7(2)	9(9)	10(8)	31(23)
2. Public Works and Utilities	52(50)	10(3)	10(10)	6(6)	7(5)	85(74)
3. Agriculture, Forestry and Fisheries	5(5)	-(-)	-(-)	-(-)	-(-)	5(5)
4. Mining and Industry	16(16)	2(-)	-(-)	-(-)	1(1)	19(17)
5. Energy	-(-)	-(-)	1(1)	-(-)	-(-)	1(1)
6. Commerce and Tourism	-(-)	-(-)	-(-)	-(-)	-(-)	-(-)
7. Human Resources	40(18)	14(4)	18(15)	23(5)	18(5)	113(47)
8. Public Health and Medicine	8(5)	5(5)	6(4)	-(-)	-(-)	19(14)
9. Social Welfare	-(-)	-(-)	6(6)	-(-)	4(1)	10(7)
10. Others	5(5)	-(-)	-(-)	-(-)	1(-)	6(5)
Grand Total	130(103)	32(12)	48(38)	38(20)	41(20)	289(193)

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 5. Equipment Supply Program (Expenditures)

Equipment	F.Y.1978-79	F.Y.1980	F.Y.1981	F.Y.1982*	Total *
Marine Training Equipment	4,459	—	—	—	4,459
Books	—	—	—	486	486
Total	4,459	—	—	486	4,945

*Provisional

Table 6. Project-Type Technical Cooperation Programs

Table 6.1 Overseas Technical Cooperation Center Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of	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	593,977 *	41 *	20 *
3. Japan - Singapore Institute of Software Technology	Dec.1980-Dec.1985	306,299 *	18 *	12 *
Total		1,095,014 *	73 *	62 *

* Provisional

Table 7. Development Survey Program (Expenditures)

1,000 Yen

Project	Total F.Y.1954-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982	Cumulative Total*
1. Malacca and Singapore Straits (Singapore and others)	(76,699)	(11,042)	22,481	4,019	1,967	(87,741) 28,467
* Tidal and Current Studies	(66,704)	(11,042)	22,481	4,019	1,967	(77,746) 28,467
* Hydrography Survey in the One Fathan Bank Area	(9,995)					(9,995)
2. Submarine Cable Project (Singapore and others)	52,495	-	-	-	-	52,495
3. Economic and Technical Cooperation Survey (Singapore and others)	1,609	1,047	1,256	1,515	998	6,425
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	45,135	159,298
7. Project finding for Industry Mining and Power (Singapore and others)	-	-	471	384	-	855
8. Basic Design Study on Productivity Development Project	-	-	-	-	5,300	5,300

* Provisional

(Continued)

1,000 Yen

Project	Total F.Y.1954-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
9. Others	52,612	-	-	-	-	52,612
Total	230,888	1,844	71,310	72,979	53,400	430,421

* Provisional

Table 8. Development Cooperation Program (Expenditures)

1,000 Yen

Project	F.Y. 1978-79	F.Y. 1980	F.Y. 1981	F.Y. 1982 *	Cumulative Total *
1. Financing Cooperation Survey	1,021	8	-	1,799	2,828
2. Technical Guidance	-	-	205	-	205
Total	1,021	8	205	1,799	3,033

* Provisional

