

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

1982



**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.

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	1,517,268	348,078	344,274	327,716	436,521	2,973,857
(Number of Participants) <sup>1)</sup>	5,027 (1978)	1,654 (196)	1,571 (184)	1,445 (190)	1,979 (222)	11,676 (2770)
Expert Assignment Programs	1,522,350	470,716	524,302	626,544	859,776	4,003,688
(Number of Japanese Experts)	5,009 (314)	2,237 (60)	2,392 (105)	2,763 (81)	3,899 (91)	16,300 (651)
Survey Mission	2,860,376	800,292	1,231,345	1,511,133	2,110,736	8,513,882
(Number of Mission Members) <sup>2)</sup>	9,923 (962)	3,802 (220)	5,618 (235)	6,663 (343)	9,571 (456)	35,577 (2216)
Equipment supply	2,055,975	676,913	706,254	479,869	432,714	4,351,725
	6,902	3,216	3,222	2,116	1,962	17,418
Japan Overseas Cooperation Volunteers	1,375,235	202,933	253,684	299,115	335,910	2,466,877
(Number of Japanese Volunteers)	4,488 (385)	964 (30)	1,158 (34)	1,319 (36)	1,523 (35)	9,452 (520)
Others	99,094	35,471	53,611	68,920	85,229	342,325
	351	169	245	304	386	1,455
Grand Total	9,430,298 31,700	2,534,403 12,042	3,113,470 14,206	3,313,297 14,610	4,260,886 19,320	22,652,354 91,878

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) 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. 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	1,513,604 5,014	348,078 1,654	343,140 1,566	327,716 1,445	436,125 1,977	2,968,663 11,656
2. Expert Assignment Program	782,482 2,620	144,085 685	158,080 721	228,121 1,006	399,219 1,810	1,711,987 6,842
3. Equipment Supply Program	130,991 431	14,301 68	30,787 140	21,854 96	35,490 161	233,423 896
4. Overseas Technical Cooperation Center Program	613,154 1,996	475,416 2,259	394,009 1,798	225,225 993	329,233 1,493	2,037,037 8,539
5. Health and Medical Cooperation Program	875,270 2,896	90,440 430	122,623 560	135,608 598	144,744 656	1,368,685 5,140
6. Agriculture, Forestry and Fisheries Cooperation Program	859,329 2,822	323,118 1,535	331,773 1,514	354,132 1,562	349,918 1,586	2,218,270 9,019
7. Industrial Development Cooperative Program	280,941 1,032	99,684 474	180,883 825	138,786 612	58,619 266	758,913 3,209
8. Development Survey Program	2,448,890 8,517	750,833 3,567	1,149,748 5,246	1,469,414 6,479	2,032,982 9,219	7,851,867 33,028
9. Development Cooperation	214,799 766	25,315 120	45,681 208	14,760 65	48,417 220	348,972 1,379
10. Japan Overseas Cooperation Volunteers	1,602,942 5,231	227,360 1,080	301,094 1,374	327,014 1,442	335,910 1,523	2,794,320 10,650
11. Others	107,896 375	35,773 170	55,652 254	70,667 312	90,229 409	360,217 1,520
Grand Total	9,430,298 31,700	2,534,403 12,042	3,113,470 14,206	3,313,297 14,610	4,260,886 19,320	22,652,354 91,878

Note: Refer to Table 1 for exchange rates.

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Table 3. Training Program for Overseas Participants  
(Number of Philippine 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	247	23	33	30	29	362
2. Public Works and Utilities	428	61	54	47	70	660
3. Agriculture, Forestry and Fisheries	552	46	25	33	34	690
4. Mining and Industry	281	28	33	33	39	414
5. Energy	30	-	-	6	9	45
6. Commerce and Tourism	63	6	7	4	7	87
7. Human Resources	141	9	16	12	3	181
8. Public Health and Medicine	191	23	16	23	17	270
9. Social Welfare	13	-	-	1	10	24
10. Others	32	-	-	1	4	37
Grand Total	1,978	196	184	190	222	2,770

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

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	3	9	5	16	37
2. Public Works and Utilities	70	23	29	24	43	189
3. Agriculture, Forestry and Fisheries	76	13	24	21	10	144
4. Mining and Industry	64	6	9	11	12	102
5. Energy	-	-	-	-	-	-
6. Commerce and Tourism	5	-	-	-	-	5
7. Human Resources	18	13	15	14	4	64
8. Public Health and Medicine	72	2	17	6	6	103
9. Social Welfare	-	-	-	-	-	-
10. Others	5	-	2	-	-	7
Grand Total	314	60	105	81	91	651

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

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

Number of persons

Sector	Total F.Y.1965-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981*	Cumulative Total*
1. Planning and Administration	-	-	-	-	2	2
2. Public Works and Utilities	42	2	5	4	-	53
3. Agriculture, Forestry and Fisheries	267	10	18	15	19	329
4. Mining and Industry	41	9	3	4	9	66
5. Energy	5	-	-	-	-	5
6. Commerce and Tourism	-	-	-	-	-	-
7. Human Resources	13	6	5	7	5	36
8. Public Health and Medicine	3	1	3	-	-	7
9. Social Welfare	-	-	-	-	-	-
10. Others	14	2	-	6	-	22
Grand Total	385	30	34	36	35	520

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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. Road Line-Marker Equipment	14,301	-	-	-	14,301
2. Forestry Products Research Equipment	-	13,037	-	-	13,037
3. Flood Forecast and Alarm Equipment	-	17,750	-	-	17,750
4. Educational Equipment	-	-	20,662	-	20,662
5. Equipment Survey	-	-	1,192	797	1,989
6. Equipment for Science Education	-	-	-	26,741	26,741
7. Equipment for Fisheries Experiment	-	-	-	7,952	7,952
<b>Total</b>	<b>14,301</b>	<b>30,787</b>	<b>21,854</b>	<b>35,490</b>	<b>102,432</b>

\* Provisional

Table 7. Project-Type Technical Cooperation Programs

Table 7.1 Overseas Technical Cooperation Center Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
1. National Cottage Industry Development Agency	Sept.1966 - Sept.1970	124,275	17	8
2. Transport Training Centre	Apr. 1977 - Apr. 1983	566,869*	106	29
3. Ceramic Research & Development Centre	Jul. 1976 - Jul. 1982	282,530*	36	33
4. Metal Casting Technology Centre	Jul. 1980 - Jul. 1984	14,386*	3	2
5. Telecommunications Training Institute	Apr. 1981 - Apr. 1986	54,305*	4	1
<b>Total</b>		<b>1,042,365*</b>	<b>166</b>	<b>73</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. Cholera Control	Jan. 1967 - Mar. 1974 Apr. 1974 - Mar. 1977 (Follow up)	61,977	31	-
2. Poliomyelitis Control	May 1967 - Mar. 1974	148,432	10	-
3. Schistosomiasis Control Research	Aug. 1972 - Mar. 1978 Apr. 1978 - Mar. 1981 (Follow up)	166,630	64	22
4. Family Planning	Apr. 1974 - Mar. 1986	537,631*	6	19
5. Institute for Tropical Medicine	Oct. 1980 - Oct. 1985	34,063*	4	2
Total		948,733*	115	43

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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. Rice Production Pilot Farm Project	Jun. 1969 - Jun. 1974 1974 - 1976 (Follow up)	228,685	17	-
2. Pilot Project of Cagayan Integrated Agricultural Development	Feb. 1976 - Feb. 1979 Feb. 1979 - Mar. 1984 (M/A)	386,026*	24	14
3. Afforestation Project in the Pantabangan Area	Jun. 1976 - Sept. 1981	375,033*	39	18
Total		989,744*	80	32

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Table 7.4 Industrial Development Cooperation Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
1. Pantabangan Pilot Forest Project	Jun. 1976 - Jun. 1978	174,263	10	4
2. Technical Cooperation on the Technological Development of Particle Board	Mar. 1977 - Mar. 1983	366,921*	29	20
Total		541,184*	39	24

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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. Economic and Technical Cooperation Survey (Philippines and others)	4,153	1,433	1,047	1,394	1,706	9,733
2. C-3 and R-4 Road Project in Manila	173,106	125	-	-	-	173,231
3. Pasig-Potorero River Flood Control and Sabo Project	96,112	62,170	-	-	-	158,282
4. Bohol Integrated Agricultural Development Project	100,506	22,350	-	-	-	122,856
5. North Luzon Telecommunication Network	35,221	34,312	-	-	-	69,533
6. Topographic Mapping Project of Cagayan Valley	12,084	30,873	117,895	135,113	437,029	732,994
7. Ilocos Norte Irrigation Project	21,162	146,584	98,707	62,102	-	328,555
8. Fishing Ports Project	14,710	19,802	-	-	-	34,512
9. Mayon Volcano Erosion Control Project	-	4,101	79,975	157,923	2,501	244,500

(to be continued) \* 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*
10. Manila-Bataan Coastal Road, C-5 and C-6 Road Project	-	41,193	126,918	310	-	168,421
11. Hospital Development Project	-	19,146	62,968	-	-	82,114
12. Urban Transport Project in Davao	-	3,151	62,578	174,389	86,534	326,652
13. Integrated Equipment Library Research Training Center in Technology University of the Philippines	-	21,039	18,672	-	-	39,711
14. Institute of Tropical Medicine	-	20,366	16,747	-	-	37,113
15. Bohol Integrated Area Development	-	12,470	85,086	-	-	97,556
16. Telecommunication Network in Central Luzon	-	-	3,294	38,794	3,918	46,006
17. Matuno River Development Project	-	-	6,765	330	55,057	62,152
18. Pampanga Delta and Candaba Swamp Development Project	-	-	4,478	278,457	152,374	435,309
19. Training and Research Vessel for the College of Fisheries, University of the Philippines	-	-	13,739	-	-	13,739
20. Indochina Refugees Processing Centre Project	-	-	9,224	-	-	9,224

(Continued)

1,000 Yen

Project	Total F.Y.1954-F.Y.1972	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981*	Cumulative Total*
21. Development Project of Port Irene	-	-	-	2,870	132,851	135,721
22. Agricultural Development Project in Mabini	-	-	-	3,823	103,042	106,865
23. The Lower Cotabato River Basin Development Project	-	-	-	4,211	1,446	5,657
24. INNOTECH Research and Training Centre	-	-	-	7,130	-	7,130
25. Petrological, Minerological and Geochronological Services Laboratory Project	-	-	-	13,283	17,548	30,831
26. Dalton Pass Tunnel Project	-	-	-	19,851	197,451	217,302
27. Local Water Supply Extension Project	-	-	-	5,166	149,025	154,191
28. Alcogas Project	-	-	-	4,225	130,803	135,028
29. Metro Manila Outer Major Roads (Southern Package) Project	-	-	-	25,794	145,749	171,543
30. Metro Manila Outer Major Roads (Northern Package) Project	-	-	-	-	1,124	1,124
31. Rural Telecommunication Project, Region V	-	-	-	-	3,874	3,874

(To be continued)

\* 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*
32. Metro Manila Transportation Plan	-	-	-	-	1,829	1,829
33. Improvement of Operation and Maintenance of National Irrigation Systems	-	-	-	-	4,256	4,256
34. Ice Plant and Cold Storage Project	-	-	-	-	4,476	4,476
35. Construction Project of the Philippine Social Service Centre	-	-	-	-	26,298	26,298
36. Construction Project of Freshwater Aquaculture Training Centre	-	-	-	-	20,020	20,020
37. Geophysical/Geological Survey Vessel Project	-	-	-	-	2,443	2,443
38. Project Finding for Industry, Mining and Power (Philippines and others)	257	449	795	471	384	2,356
39. Geological and Mineral Survey in Northwest Luzon	420,873	22,684	100,230	203,247	63,181	810,215
40. Construction of Integrated Steel Mill Plant (Mindanao Island)	114,993	76,747	68,005	-	-	259,745

\*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*
41 Mine Tailing Disposal System in the Baguio Mining District	52,217	6,005	-	-	-	58,222
42. Super Phosphate Fertilizer Project	-	2,563	-	-	-	2,563
43. Construction of Phosphate Fertilizer Plant	-	65,674	6,900	-	-	72,574
44. Agos River Hydro-electric Power Project	-	26,598	118,456	99,698	-	244,752
45. Upper Cagayan River (Didyon Site) Hydro- electric Power Project	-	109,803	83,660	33,654	-	227,117
46. Follow-up Survey (Philippines and others)	-	1,195	797	-	1,429	3,421
47. Exploration and Develop- ment of Geothermal Energy in Buguias Area	-	-	11,168	38,463	33,720	83,351
48. Visayas Power Inter- connection Project	-	-	38,332	31,431	-	69,763
49. EHV Transmission System Development Project in the Luzon Island	-	-	9,538	56,192	4,451	70,181

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(to be continued)

1,000 Yen

(Continued)

Project	Total F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981*	Cumulative Total*
50 Establishment on the Alcohol Distilleries Project	-	-	-	15,811	58,124	73,935
51. Paper and Pulp Industry Plant	-	-	-	1,531	-	1,531
52. Leyte Power Transmission Project	-	-	-	39,675	90,978	130,653
53. Agbulu Hydro-electric Power Development Project	-	-	-	6,332	-	6,332
54. Exploration, Development and Production of Water Dissolved Natural Gases	-	-	-	7,744	7,443	15,187
55. Geothermal Development Project in Acupan-Itogon	-	-	-	-	4,096	4,096
56. Matuno River Development (Hydro-electric Power) Project	-	-	-	-	51,889	51,889
57. Survey for Collaborative Mineral Resources Exploration	-	-	-	-	35,112	35,112
Others	1,403,496	-	3,774	-	821	1,408,091
<b>Total</b>	<b>2,448,890</b>	<b>750,833</b>	<b>1,149,748</b>	<b>1,469,414</b>	<b>2,032,982</b>	<b>7,851,867</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) Forestry Development Project in Pantabangan	3,125	-	-	-	3,125
(2) Pioneer Iron Mine Development Project	17,132	24,089	-	-	41,221
(3) Castor Development Project in Mindanao Island	4,961	2	-	-	4,963
(4) The EAC Ferro-Silicon Project	-	16,547	5,561	-	22,108
(5) Forage Crop Cultivation Project	-	-	3,508	2,083	5,591
(6) PASAR Development Project	-	-	-	23,193	23,193
(7) Plantation, Development Project for Woody Energy Resources	-	-	-	10,015	10,015

\* Provisional

(to be continued)



(Continued)

1,000 Yen

Project	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981*	Cumulative Total*
(8) Coconut Production Development Project	-	-	-	4,960	4,960
(9) Vegetable Improvement and Seed Production Development Project	-	-	-	3,787	3,787
2. Financial Cooperation Survey	97	2,405	2,690	3,586	8,778
3. Technical Guidance	-	2,638	3,001	793	6,432
<b>Total</b>	<b>25,315</b>	<b>45,681</b>	<b>14,760</b>	<b>48,417</b>	<b>134,173</b>

\* Provisional

