

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

1983



**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 <sup>3)</sup> F.Y.1954-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982 <sup>4)</sup>	Cumulative Total <sup>4)</sup>
Training Program	2,607,421	514,533	571,344	569,119	642,784	4,905,201
(Number of Participants)	9,198 (3,222)	2,348 (266)	2,519 (317)	2,581 (318)	2,581 (353)	19,227 (4,476)
Expert Assignment Programs <sup>1)</sup>	6,364,097	1,410,896	1,822,505	2,011,255	2,213,458	13,822,211
(Number of Japanese Experts)	23,178 (945)	6,437 (120)	8,036 (164)	9,120 (186)	8,888 (160)	55,659 (1,575)
Survey Mission	7,535,361	1,999,217	2,177,088	2,006,967	2,922,228	16,640,861
(Number of Mission Members)	28,318 (2,139)	9,122 (390)	9,600 (500)	9,101 (650)	11,733 (622)	67,874 (4,301)
Equipment Supply <sup>2)</sup>	4,456,748	1,092,323	1,362,264	1,364,658	1,501,470	9,777,463
	15,904	4,984	6,007	6,188	6,029	39,112
Japan Overseas Cooperation Volunteers	-	-	970	3,656	-	4,626
(Number of Japanese Volunteers)	- (-)	- (-)	4 (-)	17 (-)	- (-)	21 (-)
Others	244,841	79,042	107,931	125,887	113,703	671,404
	952	360	476	571	457	2,816
<b>Grand Total</b>	<b>21,208,468</b> <b>77,550</b>	<b>5,096,011</b> <b>23,251</b>	<b>6,042,102</b> <b>26,642</b>	<b>6,081,542</b> <b>27,578</b>	<b>7,393,643</b> <b>29,688</b>	<b>45,821,766</b> <b>184,709</b>

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	2,598,441 9,164	514,533 2,348	567,904 2,504	576,841 2,616	628,736 2,525	4,886,455 19,157
2. Expert Assignment Program	3,918,769 14,035	631,479 2,881	736,359 3,247	937,626 4,252	906,492 3,640	7,130,725 28,055
3. Equipment Supply Program	235,456 846	44,903 205	145,572 642	115,011 522	89,971 361	630,913 2,576
4. Overseas Technical Cooperation Center Program	946,323 3,290	25,689 117	4,730 21	21,806 99	308,384 1,238	1,306,932 4,765
5. Health and Medical Cooperation Program	1,141,779 4,054	408,483 1,864	466,212 2,055	426,364 1,933	430,676 1,729	2,873,514 11,635
6. Agriculture, Forestry and Fisheries Cooperation Program	3,877,996 14,709	1,424,918 6,501	1,799,055 7,933	1,588,074 7,201	2,034,086 8,167	10,724,129 44,511
7. Industrial Development Cooperation Program	1,095,177 3,601	76,183 348	82,241 363	247,349 1,122	123,934 498	1,624,884 5,932
8. Development Survey Program	6,842,599 25,743	1,799,851 8,212	2,025,245 8,930	1,989,667 9,022	2,738,438 10,996	15,395,800 62,903
9. Development Cooperation	254,918 982	88,888 405	105,161 464	43,304 196	16,640 67	508,911 2,114
10. Japan Overseas Cooperation Volunteers	2,387 10	- -	970 4	3,659 17	- -	7,016 31
11. Others	294,623 1,116	81,084 370	108,653 479	131,841 598	116,286 467	732,487 3,030
Grand Total	21,208,468 77,550	5,096,011 23,251	6,042,102 26,642	6,081,542 27,578	7,393,643 29,688	45,821,766 184,709

Note: Refer to Table 1 for exchange rates.

\* Provisional

Table 3. Training Program for Overseas Participants  
(Number of Indonesian Participants)<sup>1)</sup>

Number of persons

Sector	Total F.Y.1954-F.Y.1978	FY.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
1. Planning and Administration	397	34	37	39	43	550
2. Public Works and Utilities	783	73	95	93 (3 <sup>b)</sup> )	92 (5 <sup>b)</sup> )	1,136 (8 <sup>b)</sup> )
3. Agriculture, Forestry and Fisheries	765 (14 <sup>a)</sup> )	69	80 (2 <sup>a)</sup> )	86	95 (7 <sup>a)</sup> (4 <sup>b)</sup> )	1,095 (23 <sup>a)</sup> 4 <sup>b)</sup> )
4. Mining and Industry	439	34	35	34 (3 <sup>b)</sup> )	52 (4 <sup>b)</sup> )	594 (7 <sup>b)</sup> )
5. Energy	60	-	14	10	6	90
6. Commerce and Tourism	184	7	7	10	7	215
7. Human Resources	165	19	11	6	20	221
8. Public Health and Medicine	354	27	33	27	27	468
9. Social Welfare	2	2	2	8	6	20
10. Others	73	1	3	5	5	87
Grand Total	3,222 (14 <sup>a)</sup> )	266	317 (2 <sup>a)</sup> )	318 (6 <sup>b)</sup> )	353 (7 <sup>a)</sup> (13 <sup>b)</sup> )	4,476 (23 <sup>a)</sup> (19 <sup>b)</sup> )

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Note: 1) Includes number of participants of development cooperation program<sup>a)</sup> and of third country training program<sup>b)</sup>.

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

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	57 (42) <sup>2)</sup>	3 (1)	4 (3)	9 (9)	7 (7)	80 (62)
2. Public Works and Utilities	278 (271)	19 (12)	26 (23)	38 (38)	37 (26)	398 (370)
3. Agriculture, Forestry and Fisheries	264 (78)	69 (24)	90 (25)	96 (30)	68 (2)	587 (159)
4. Mining and Industry	74 (71)	2 (2)	12 (9)	14 (10)	24 (4)	126 (96)
5. Energy	52 (51)	- (-)	1 (1)	- (-)	- (-)	53 (52)
6. Commerce and Tourism	4 (4)	- (-)	3 (3)	- (-)	- (-)	7 (7)
7. Human Resources	86 (37)	11 (10)	7 (-)	8 (2)	10 (4)	122 (53)
8. Public Health and Medicine	120 (18)	16 (-)	21 (-)	20 (-)	14 (-)	191 (18)
9. Social Welfare	- (-)	- (-)	- (-)	1 (-)	- (-)	1 (1)
10. Others	10 (10)	- (-)	- (-)	- (-)	- (-)	10 (10)
Grand Total	945 (582)	120 (49)	164 (64)	186 (90)	160 (43)	1,575 (828)

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. Equipment Supply Program (Expenditures)

1,000 Yen

Equipment	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Total*
1. Hydraulics Research Equipment	40,783	-	-	-	40,783
2. Rice Production Equipment	4,120	3,538	-	-	7,658
3. Equipment for Respiratory Function Test	-	9,196	-	-	9,196
4. Natural Rubber Research Equipment	-	90,007	-	-	90,007
5. Fisheries Research Equipment	-	38,398	-	-	38,398
6. Equipment for Coastal Fisheries Extension	-	4,433	4,701	-	9,134
7. Equipment for Seamen's Training	-	-	23,074	-	23,074
8. Equipment for Industrial Safety Test	-	-	20,732	-	20,732
9. Equipment for Mine Prospecting	-	-	33,560	-	33,560
10. Equipment for Seismological Research	-	-	26,042	-	26,042
11. Equipment for Chemical Experiment	-	-	6,902	332	7,234
12. Equipment for Lahar Monitoring of Volcanic Debris in the Mt. Galunggung Area	-	-	-	76,230	76,230
13. Equipment for Pesticide Utilization for Plant Protection	-	-	-	6,828	6,828
14. Equipment for Foundry Engineering	-	-	-	6,581	6,581
Total	44,903	145,572	115,011	89,971	395,457

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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 Japanese Experts	Number of Counterparts
1. Technical Cooperation in the Field of Fishery Research and Education	Jul.1969 - Jul. 1972	147,071	6	4
2. Sulawesi Industrial Vocational Training Centre	Feb.1974 - Feb. 1980	387,626	19	34
3. Sumatra Chemical Industry Training and Development Centre	Nov.1981 - Nov. 1986	103,659*	5	4
4. Volcanic Sabo Technical Centre	Aug.1982 - Aug. 1987	81,000*	10	3
5. Centre for Vocational and Extension Service Training	Feb.1983 - Feb. 1988	-	3	4
<b>Total</b>		<b>719,356*</b>	<b>43</b>	<b>49</b>

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Table 6.2 Health and Medical Cooperation Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
1. Medical Faculty of Padjadjaran University	Jul. 1966 - Mar. 1972	12,401	3	-
2. Medical Cooperation for the Province of Maluku	Apr. 1968 - Mar. 1974	69,640	6	-
3. Central General Hospital, Western Java	Apr. 1968 - Mar. 1972	60,001	16	9
4. The Lung-Surgery Cooperation with the Persahabatan Hospital	Apr. 1969 - Mar. 1974	35,449	16	10
5. The Cardiosurgery Cooperation with the Persahabatan Hospital	F.Y. 1968 - 1969, 1972	10,778	17	-
6. The Central Clinical Laboratory of the Dr. Tjipto Mangunkusumo Hospital	Apr. 1972 - Mar. 1976	49,285	3	-
7. Family Planning	Oct. 1969 - Mar. 1985	760,307*	32	15
8. Centre for Biomedical Research	Apr. 1975 - Mar. 1982	254,053	40	22
9. Promotion of Health in North Sumatra (ASAHAN Health Improvement Project)	Apr. 1978 - Mar. 1984	327,186*	42	18
10. Nursing Education	Nov. 1978 - Nov. 1983	101,641*	12	14
11. National Drug and Food Quality Control Laboratory	Apr. 1983 - Mar. 1988	-	-	-
Total		1,680,741*	187	88

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Table 6.3 Agriculture, Forestry and Fisheries Cooperation Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
1. Technical Cooperation in the Field of Agriculture in Indonesia (Western Java)	May 1968 - May 1976	210,414	14	-
2. Tadjum Pilot Scheme	Feb. 1971 - Feb. 1976	130,240	11	-
3. Sericulture Development Project in South Sulawesi	Mar. 1976 - Feb. 1985	565,532*	50	32
4. Strengthening of Legumes in Relation to Cropping System Research Project	Oct. 1978 - Oct. 1983	285,068*	42	30
5. Lampung Agricultural Development Project	Nov. 1972 - Nov. 1982	1,055,925*	27	48
6. South Sulawesi Regional Agricultural Development Planning	Dec. 1976 - Jun. 1982	179,389*	47	26
7. Animal Health Improvement Programme	Jul. 1977 - Jul. 1982 Follow up Jul. 1982 - Jul. 1984	296,019*	29	13
8. Agricultural Products Processing Pilot Plant Project	Oct. 1977 - Oct. 1984	374,703*	25	18
9. Mountain Logging Practice Project in Java	Apr. 1978 - Jun. 1982	385,310*	21	22
10. Mariculture Research and Development Project	Aug. 1978 - Mar. 1984	193,837*	31	12

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(To be continued)

(Continued)

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
11. Middle Level Agricultural Technician Training Project	Mar. 1979 - Mar. 1984	247,463*	15	22
12. Trial Plantation Project in South Sumatra	Apr. 1979 - Apr. 1984	390,070*	26	13
13. Remote Sensing Engineering Project for the Development of Agricultural Infrastructure	Apr. 1980 - Mar. 1985	383,977*	16	8
14. Plant Protection Project	Jun. 1980 - Jun. 1985	212,305*	15	8
15. Construction Guidance Service Centre Project	Apr. 1981 - Mar. 1986	116,125*	11	7
Total		5,026,377*	380	259

\* Provisional



Table 6.4 Industrial Development Cooperation Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
1. East Java Maize Development	Dec. 1967 - Jul. 1974	256,263	18	4
2. Lampung Agricultural Development	Nov. 1972 - Nov. 1977	338,123	12	-
3. Development for Building Materials	Jul. 1978 - Jul. 1982	299,252*	29	18
4. Biomass Energy Research and Development Centre	Oct. 1982 - Oct. 1986	-	4	2
Total		893,638*	63	24

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Table 7. Development Survey Program (Expenditures)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
1. Malacca and Singapore Strait (Indonesia and others)	(76,699)	(11,042)	22,480	4,019	1,967	(87,741) 28,466
*Tidal and Current Studies	(66,704)	(11,042)	22,480	4,019	1,967	(77,746) 28,466
*Hydrographic Survey in the One Fathan Bank Area	(9,995)	-	-	-	-	(9,995)
2. Central South Surawesi Water Resources Development	526,551	144,165	-	-	-	670,716
3. Overall Urar River Improvement	339,814	-	-	-	-	339,814
4. Basic and Practical Study for Master Plan in Land Erosion and Volcanic Debris Control in Area of Mt. Merapi	324,812	80,970	152	-	-	405,934
5. Jakarta Ring Road	152,215	-	-	-	-	152,215
6. Northern and Western Sumatra Tourism Development	189,155	-	-	-	-	189,155
7. Extension Project of the Bitung Port	98,988	-	-	-	-	98,988

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(to be continued)

(Continued)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
8. Forestry Inventory for Management and Logging Plan to Central Java	97,589	-	-	-	-	97,589
9. Technical Cooperation Survey (Indonesia and Others)	4,950	1,388	1,255	3,287	-	10,880
10. Construction Project of Semarang Port	101,886	-	-	-	-	101,886
11. Shipping Industry Development in Indonesia	68,715	69	-	-	-	68,784
12. Feasibility Study and Planning of Riam-Kanan Irrigation	230,223	18,803	-	-	-	249,026
13. Management Plan of Upper Musi Water-Shed in South Sumatra	148,891	195,965	-	-	-	344,856
14. Borobudur - Prambanan National Archeological Monument Parks	149,885	10,967	-	-	-	160,852
15. Salvage Survey of Wrecks and Underwater Obstacles	1,841	72,984	159	-	-	74,984
16. Nurse Education Facilities	38,853	26	-	-	-	38,879

\* Provisional

(to be continued)

(Continued)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
17. Reforestation Technology Facilities, Mulawarman University	38,353	1,044	-	-	-	39,397
18. Hospital Facilities Improvement	22,476	-	-	-	-	22,476
19. Construction of Port Facilities in Balikpapan	40,566	59,013	-	-	-	99,579
20. Lower Jeneberang River Flood Control Project (Phase I, Phase II)	4,728	114,256	75,612	111,937	370	306,903
21. Improvement of Telephone Network System in Jakarta	3,813	112,877	133,692	575	-	250,957
22. Upper Komerang River Basin Agricultural Development	12,132	181,870	165,911	122,924	192	483,029
23. Low Cost Housing Project in Depok	3,882	65,869	118,309	106	-	188,166
24. Construction of Guidance Service Centre in Irrigation, Drainage Engineering	10,285	3,368	-	-	-	13,653

\* Provisional

(to be continued)

(Continued)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
25. Southern Coast Development Project in Eastern Java	66,241	47,084	213	-	-	113,538
26. Jakarta-Merak Link Road (Jakarta-Tangerang Tollway System)	2,741	10,938	-	-	-	13,679
27. Solo River Basin Irrigation and River Improvement	6,794	-	-	-	-	6,794
28. Combined Transportation Survey in Medan	5,421	118,308	61,629	-	-	185,358
29. Makassar Shipyard	-	2,188	96,083	-	-	98,271
30. Standard Package Water Supply Treatment Plan for Medium and Small Scale Cities	-	16,973	57,219	-	-	74,192
31. Pelabuhan Ratu Fish Port	-	5,334	807	-	-	6,141
32. Telecommunication Network in Developing Areas Surrounding Medan and Ujung Pandang	-	4,795	53,374	46	-	58,215
33. Jakarta Harbour Road	-	3,182	155,904	68,634	-	227,720

\* Provisional

(to be continued)

(Continued)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
34 Development of Lang Keuame Irrigation	-	2,697	147,236	164	-	150,097
35 Rural Road Development	-	19,161	46,977	-	-	66,138
36 The Urban/Sub-Urban Railway Transportation Study in JABOTABEK Area	-	4,288	138,850	121,082	175,644	439,864
37 Urgent Improvement of Madiun River	-	26,795	64,655	-	-	91,450
38 Middle Level Agricultural Technical Training Centre - Basic Design	-	13,232	17,136	-	1	30,368
39 Indo-China Refugees Centre (Indonesia and Others)	-	9,225	-	-	-	9,225
40 Master Planning and Pre-design of Sorong Port	-	6,590	106,317	8,321	-	121,228
41 Sumatra Chemical Training and Development Centre - Basic Design	-	13,115	20,261	-	-	33,376
42 Domestic Airport Development Project (Padang)	-	-	3,685	93,429	-	97,114

\* Provisional

(to be continued)

(Continued)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
43 Forest Inventory for the Management Plan for Upper-Musi Watershed in South Sumatra	-	-	2,901	-	-	2,901
44 Development of Marine Telecommunication System	-	-	12,007	82,569	192	94,768
45 Electrification of Mainlines in Java	-	-	-	4,235	172,623	176,858
46 Volcanic Debris Control and Water Conservation Project in the South-Eastern Slope of Mt. Semeru	-	-	-	39,301	294,742	334,043
47 Telecommunication Network Development Project for Eastern Part of the Republic of Indonesia	-	-	-	40,611	36,005	76,616
48 North Banten Water Resources Development Project	-	-	-	2,945	411,173	414,118
49 Long-term Development Project of International Telecommunications	-	-	-	4,514	79,900	84,414

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(to be continued)

(Continued)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
50 Development Plan of Bali International Airport	-	-	-	44,868	12,822	57,690
51 Surabaya Metropolitan Area Structure Plan	-	-	-	119,768	151,665	271,433
52 Urban Renewal Housing Project in Jakarta	-	-	-	5,402	105,737	111,139
53 Construction Project of Radio and Television Broadcast Training Centre	-	-	3,192	36,636	23	39,851
54 Establishment Project of Quaternary Geology Laboratory	-	-	-	21,030	20	21,050
55 Irrigation Facilities Project on Pilot Scheme in Riam Kanan	-	-	-	15,364	-	15,364
56 Rice Seed Production and Distribution Project	-	-	-	67,453	46,062	113,515
57 Sunrego Irrigation Project	-	-	-	4,434	197,177	201,611
58 North Banten Irrigation Project	-	-	-	4,541	120	4,661
59 Rice Self Sufficiency Program	-	-	-	6,366	-	6,366

\* Provisional

(to be continued)



(Continued)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
60 Biomass Energy Research and Development Centre	-	-	19,905	25,787	-	45,692
61 Study on Post-Harvest Losses	-	-	5,154	118,439	98,873	222,466
62 Rice Pest Forecasting and Control Project	-	-	4,346	28,841	42,555	75,742
63 Utilization of Lesser- Known Wood Species	-	-	5,844	1,013	-	6,857
64 Marunda Timber Estate and Terminal	-	-	3,681	561	-	4,242
65 Bila Irrigation Project	-	-	4,736	56,838	81,579	143,153
66 Indonesia-Sri Lanka Submarine Cable Construction	-	-	-	-	2,755	2,755
67 Development Project of Dumai Port	-	-	-	-	95,397	95,397
68 Development of Naviga- tion Aids	-	-	-	-	3	3
69 Topographic Mapping Project in the Upper Stream Area of Negara River Basin	-	-	-	-	17,609	17,609

\* Provisional

(to be continued)

(Continued)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
70 Integrated Radio and Television Development	-	-	-	-	4,394	4,394
71 Nusa Tenggara Terrestrial Transmission Network	-	-	-	-	4,806	4,806
72 Padang Area Flood Control Project	-	-	-	-	58,925	58,925
73 Water Supply Development Project in Jakarta	-	-	-	-	6,491	6,491
74 Sulawesi Terrestrial Transmission Network	-	-	-	-	63,013	63,013
75 Basic Design Study for the Establishment Project of Center for Vocational and Extension Service Training	-	-	-	-	15,751	15,751
76 Basic Design Study for the Establishment of Veterinary Assay Laboratory	-	-	-	-	1,609	1,609
77 Basic Design Study for the Construction Project of the National Quality Control Laboratory	-	-	-	-	9,348	9,348
78 Lower ASAHAN River Basin Development Project	-	-	-	-	7,100	7,100

\* Provisional

(to be continued)

(Continued)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
79 Project Finding-Mining, Industry and Power Production (Indonesia and others)	591	795	472	479	-	2,337
80 Mineral Resources Development in Central Kalimantan	517,555	-	-	-	-	517,555
81 Rehabilitation of Ombilin-Coal Mines	150,241	67,582	92,807	4,164	-	314,794
82 Thermalelectric Power Development of Bukit Asam	58,767	-	-	-	-	58,767
83 Geological Survey in Uranium Minerals in Sumatra	873	2,291	-	29	-	3,173
84 Construction of Urea Plant in Aceh	89,688	-	-	-	-	89,688
85 Energy Supply-Demand Data Bank System	23,300	29,025	22,899	-	-	75,224
86 Energy Data Bank System for Petroleum Exploration and Development	35,970	51,469	82,198	27,486	-	197,123
87 Maung Hydro-electric Power Development	36,902	158,318	57,535	-	-	252,755

\* Provisional

(to be continued)

(Continued)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
88 Pulp and Paper Mills	10,290	3,833	-	-	-	14,123
89 Metallic Mineral Explora- tion in West Kalimantan	-	63,142	106,852	66,942	-	236,936
90 Feasibility Study for North Sumatra Transmis- sion	-	34,331	1,115	-	-	35,446
91 Volcanological Survey (Geothermal Development Project)	-	10,068	31,771	-	-	41,839
92 Industrial Standardiza- tion	-	4,795	-	-	-	4,795
93 Development of Small Scale Industry	-	5,866	414	-	-	6,280
94 Follow-up Survey (Indonesia and others)	-	797	-	-	-	797
95 ASAHAN Hydro-electric Power Development Project	-	-	21,005	77,146	63,498	161,649
96 Medan Foundary Centre Development Project	-	-	30,470	6,671	-	37,141
97 Condom Supply and Local Production	-	-	11,926	40,976	-	52,902
98 Riam Kiwa Hydro-electric Power Development Project	-	-	16,099	150,043	33,234	199,376

\* Provisional

(to be continued)

(Continued)

1,000 Yen

Project	Total F.Y.1957-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
99 Strengthening of Data Processing and Information on Trade and Cooperation	-	-	-	20,335	25,681	46,016
100 Lempur Geothermal Development Project	-	-	-	236,122	136,715	372,837
101 Kotapanjang Hydro-electric Power Development	-	-	-	35,209	155,533	190,742
102 Energy Supply-Demand Planning System Development	-	-	-	27,486	2,231	29,717
103 Development of Sugarcane Molasses Fermentation Industry	-	-	-	-	36,650	36,650
104 Renun Hydro-Electric Power Development Project	-	-	-	-	10,126	10,126
105 Survey for Collaborative Mineral Resources Exploration	-	-	-	-	74,126	74,126
106 Banko Coal Effective Utilization Project	-	-	-	-	4,002	4,002
Others	3,226,622	-	-	30,539	-	3,257,161
<b>Total</b>	<b>6,842,599</b>	<b>1,799,851</b>	<b>2,025,245</b>	<b>1,989,667</b>	<b>2,738,438</b>	<b>15,395,800</b>

\* Provisional

Table 8. Development Cooperation Program (Expenditures)

1,000 Yen

Project	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
1. Basic and Development Survey					
(1) Forestry Development Project in South Sumatra	18,493	5,216	732	-	24,441
(2) Forestry Development of the Barito River Upper Basin	11,351	24,239	25,903	-	61,493
(3) Lesser-Known Species Development Project in Central Kalimantan	9,092	-	-	-	9,092
(4) Forestry Development Project in North Sulawesi	7,753	-	-	-	7,753
(5) Agricultural Development of Togian Islands	13,583	2,549	-	-	16,132
(6) Cilacap Cement Development Project	-	34,609	-	-	34,609
(7) Sago Palm Development Project (Indonesia and others)	-	2,548	-	-	2,548
2. Financial Cooperation Survey	6,978	4,944	5,657	1,975	19,554
3. Technical Guidance Service	21,638	31,056	11,012	14,665	78,371
<b>Total</b>	<b>88,888</b>	<b>105,161</b>	<b>43,304</b>	<b>16,640</b>	<b>253,993</b>

\* Provisional

