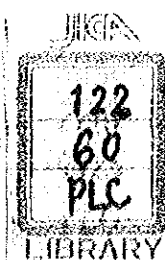


**JICA'S TECHNICAL COOPERATION
IN
KINGDOM OF THAILAND**

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 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	2,486,257	399,548	498,028	599,251	567,296	4,550,380
(Number of Participants)	8,637 (3,356)	1,823 (256)	2,196 (284)	2,717 (344)	2,278 (323)	17,651 (4,563)
Expert Assignment Programs 1)	4,560,322	959,938	1,514,597	1,704,122	1,145,826	9,884,805
(Number of Japanese Experts)	15,529 (912)	4,380 (158)	6,679 (312)	7,727 (328)	4,601 (262)	38,916 (1,972)
Survey Mission	3,068,287	1,207,582	1,277,555	1,928,535	2,106,837	9,588,796
(Number of Mission Members)	11,859 (1,106)	5,510 (254)	5,633 (327)	8,745 (550)	8,459 (538)	40,206 (2,775)
Equipment supply 2)	5,061,956	876,204	863,414	1,200,210	877,885	8,879,669
	17,385	3,998	3,807	5,442	3,525	34,157
Japan Overseas Cooperation	-	-	-	6,124	50,962	57,086
Volunteers	-	-	-	28	205	233
(Number of Japanese Volunteers)	(-)	(-)	(-)	(5)	(13)	(18)
Others	127,244	65,570	103,868	128,952	160,094	585,728
	498	299	458	585	642	2,482
Grand Total	15,304,066 53,908	3,508,842 16,010	4,257,462 18,773	5,567,194 25,244	4,908,900 19,710	33,546,464 133,645

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	2,455,488 8,517	388,276 1,772	485,605 2,141	593,278 2,690	567,296 2,278	4,489,943 17,398
2. Expert Assignment Program	2,702,291 8,942	261,608 1,194	387,483 1,708	479,129 2,173	608,571 2,444	4,439,082 16,461
3. Equipment Supply Program	190,475 690	83,973 383	82,932 366	118,559 538	124,960 502	600,899 2,479
4. Overseas Technical Coopera- tion Center Program	2,054,990 6,574	346,942 1,583	333,044 1,469	321,402 1,457	132,618 532	3,188,996 11,615
5. Health and Medical Cooperation Program	2,064,523 6,967	399,962 1,825	775,181 3,418	968,815 4,393	310,727 1,247	4,519,208 17,850
6. Agriculture, Forestry and Fisheries Cooperation Program	1,838,556 6,932	609,397 2,780	655,678 2,891	879,524 3,988	896,613 3,600	4,879,768 20,191
7. Industrial Development Cooperation Program	1,037,222 3,758	168,494 769	225,122 993	208,420 945	184,279 740	1,823,537 7,205
8. Development Survey Program	2,732,362 10,677	1,135,287 5,180	1,151,087 5,075	1,822,955 8,266	1,827,384 7,337	8,669,075 36,535
9. Development Cooperation	50,233 191	46,747 213	48,450 214	20,066 91	17,378 70	182,874 779
10. Japan Overseas Cooperation Volunteers	222 1	1,815 8	1,486 7	10,289 47	50,962 205	64,774 268
11. Others	177,704 659	66,341 303	111,394 491	144,757 656	188,112 755	688,308 2,864
Grand Total	15,304,066 53,908	3,508,842 16,010	4,257,462 18,773	5,567,194 25,244	4,908,900 19,710	33,546,464 133,645

Note: Refer to Table 1 for exchange rates.

* Provisional

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

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	383	35	39	36	28	521
2. Public Works and Utilities	664	53	63	85(4 ^b)	91(1 ^b)	956
3. Agriculture, Forestry and Fisheries	886(58 ^a)	63(15 ^a)	74(15 ^a)	101(20 ^a)	73	1,197
4. Mining and Industry	277	21	42	42(2 ^b)	50(3 ^b)	432
5. Energy	72	-	11	7	8	98
6. Commerce and Tourism	94	9	8	10	4	125
7. Human Resources	282	14	14	2	20	332
8. Public Health and Medicine	402	31	26	42	32	533
9. Social Welfare	18	1	4	17	9	49
10. Others	68	-	3	2	12	85
Grand Total	3,146	227	284	344	327(4 ^b)	4,328

Note: 1) Includes number of experts of Project-type technical cooperation programs^{a)}
and at the third country training programs.^{b)}

* Provisional

Table 4. Expert Assignment Program (Number of Japanese Experts)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	19(14) ²⁾	23(4)	22(17)	6(4)	10(10)	80(49)
2. Public Works and Utilities	223(152)	19(18)	19(16)	24(15)	21(21)	306(222)
3. Agriculture, Forestry and Fisheries	194(87)	31(10)	49(9)	62(10)	57(4)	393(120)
4. Mining and Industry	45(30)	15(9)	6(6)	7(1)	3(-)	76(46)
5. Energy	27(27)	-(-)	3(3)	4(1)	-(-)	34(31)
6. Commerce and Tourism	-(-)	3(-)	-(-)	-(-)	-(-)	3(-)
7. Human Resources	77(19)	9(1)	8(5)	10(-)	13(3)	117(28)
8. Public Health and Medicine	314(33)	58(5)	205(-)	214(-)	151(-)	942(38)
9. Social Welfare	1(1)	-(-)	-(-)	1(1)	4(4)	6(6)
10. Others	12(12)	-(-)	-(-)	-(-)	3(-)	15(12)
Grand Total	912(375)	158(47)	312(56)	328(32)	262(42)	1,972(552)

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 F.Y.1954-F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
1. Planning and Administration	-	-	-	-	-	-
2. Public Works and Utilities	-	-	-	-	-	-
3. Agriculture, Forestry and Fisheries	-	-	-	1	3	4
4. Mining and Industry	-	-	-	2	6	8
5. Energy	-	-	-	-	-	-
6. Commerce and Tourism	-	-	-	-	-	-
7. Human Resources	-	-	-	2	3	5
8. Public Health and Medicine	-	-	-	-	1	1
9. Social Welfare	-	-	-	-	-	-
10. Others	-	-	-	-	-	-
Grand Total	-	-	-	5	13	18

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Table 6. Equipment Supply Program (Expenditures)

1,000 Yen

Equipment	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Total
Integrated Highland Agriculture Development Project	24,615	-	-	-	24,615
Equipment for Prevention of Plant Diseases	18,111	16,916	-	-	35,027
Medical Goods	37,127	4,788	-	-	41,915
Rice Production Equipment	4,120	1,500	-	-	5,620
Automatic Cancelling Machine	-	23,713	-	-	23,713
Equipment for Highland Agriculture	-	30,392	40,340	-	70,732
Equipment for Coastal Fisheries Extension	-	4,432	1,087	-	5,519
Equipment Survey	-	1,191	3,872	-	5,063
Equipment for Maintenance Engineering of Permanent Railway s	-	-	36,250	-	36,250
Equipment for Bamboo Craft Study	-	-	33,516	16,809	50,325
Equipment for Chemical Experiment	-	-	3,494	-	3,494
Equipment for Ceramic Industry	-	-	-	28,277	28,277
Equipment for Ceramic Education	-	-	-	15,323	15,323
Equipment for Language Education	-	-	-	15,804	15,804

* Provisional

(Continued)

1,000 Yen

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* 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. Virus Research Institute	Nov. 1961 - May 1966	44,535	12	-
2. King Mongkut's Institute of Technology (Electric & Telecommunication Training Centre)	Aug. 1960 - Jun. 1977	206,482	61	46
3. Technical Cooperation Centre for Road Construction at Songkhla	Nov. 1964 - Nov. 1968	294,955	15	12
4. Technical Cooperation Centre for Road Construction and Training at Surat Thani	May 1971 - May 1977	730,495	35	28
5. The Institute for Skill Development in the Northeast of Thailand	Dec. 1977 - Dec. 1981	171,215*	13	21
6. Furniture Industry Development Centre	Nov. 1976 - Nov. 1979	118,575	20	15
7. Expansion Project of King Mongkut's Institute of Technology (Technologies in Solid State, Data-Processing and Energy Conversions)	Dec. 1978 - Dec. 1982	387,031	22	14
Total		1,975,545	178	136

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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. National Hospital	Aug. 1966 - Jul. 1969	66,067	37	-
2. Chest Surgery Hospital	Apr. 1962 - Mar. 1970	4,678	5	-
3. Mahidol University, Faculty of Tropical Medicine	Apr. 1965 - Mar. 1972	15,922	10	-
4. Poliomyelitis Control	Apr. 1968 - Mar. 1970	23,333	3	-
5. Psychiatric Hospital	Apr. 1967 - Mar. 1968	8,581	1	-
6. Virus Research Institute	Nov. 1961 - Mar. 1976	55,128	33	-
7. Thai Medical Plant Research	Apr. 1967 - Mar. 1975	36,425	11	-
8. Ramathibodi, Department of Ophthalmology	May 1968 - Mar. 1976	86,140	19	-
9. Ramathibodi, Experimental Pathology	Feb. 1969 - Mar. 1973			
10. Thai National Cancer Institute	Jul. 1967 - Mar. 1980	553,076	147	81
11. Family Planning	Jul. 1974 - Mar. 1984	604,574*	8*	59*
12. Promotion of Provincial Health Service	Apr. 1976 - Mar. 1984	415,848*	74*	42*
13. Nursing Education Project	Aug. 1980 - Jul. 1985	99,943*	14*	8*
14. Cambodian Refugees Camp	F.Y. 1979 - 1982	142,744*	434	2

* Provisional

(Continued)

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
15. ASEAN Training Center for Primary Health Care	Oct. 1982 - Sep. 1987	22,257 *	9 *	4 *
Total		2,134,716 *	805 *	196 *

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. Sericultural Development	Mar. 1969 - Mar. 1980	570,865	45	13
2. Animal Health Improvement Project	Mar. 1977 - Mar. 1984	703,882 *	49 *	22 *
3. Irrigated Agriculture Development Project in West Bank Track of the Greater Chao Phaya	Apr. 1977 - Apr. 1985	814,223 *	40 *	25 *
4. Research and Development Project in Kasetsart University	Apr. 1980 - Apr. 1985	174,860 *	23 *	9 *
5. Agricultural Extension and Mechanization Project in Kasetsart University	Jul. 1981 - Jun. 1986	52,316 *	14 *	6 *
6. National Weed Science Research Institute	Apr. 1980 - Apr. 1985	142,679 *	14 *	7 *
7. Coastal Aquaculture Development Project	Apr. 1981 - Mar. 1986	75,975 *	16 *	4 *
8. Research and Training in Re-afforestation	Jul. 1981 - Jul. 1986	173,850 *	12 *	7 *
Total		2,708,650 *	213 *	93 *

* Provisional

Table 7.4 Industrial Development Cooperation Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
1. Primary Commodities Development	Apr. 1967 - Mar. 1969	46,700	7	-
2. Soybean Development	Apr. 1968 - Apr. 1976	111,084	11	12
3. Oil Seed Laboratory	Nov. 1970 - Dec. 1974	88,903	7	8
4. Shrimp Culture Development	Apr. 1973 - Mar. 1978	189,714	18	19
5. Maize Development	Sept. 1976 - Sept. 1982	426,313*	26*	16*
6. Technological Development of Natural Rubber Processing	Apr. 1977 - Sept. 1983	205,660*	30*	21*
Total		1,068,374*	99*	76*

*Provisional

Table 8. 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. Economic & Technical Cooperation Survey	4,267	58	1,782	1,515	1,300	8,922
2. Bangkok Telephone Network	380,880	121,099	38,985	-	-	540,964
3. Pattaya Tourism Development	335,524	-	-	-	-	335,524
4. Separate System of Metropolitan Water Supply Works	143,869	-	-	-	-	143,869
5. Road Construction between Petchabun and Chaibadan	108,742	-	-	-	-	108,742
6. Master Plan and Feasibility Study on the Greater Mae Klong River Basin	254,208	92,971	-	-	-	347,179
7. Expansion Project of Kasetsart University	67,832	66	-	-	-	67,898
8. Suburban Mass Transit System in Bangkok and Study on Rail Commuter Service for Bangkok Project	75,946	14,530	-	-	-	90,476

* 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. Truck Terminal in Bangkok	2,391	80,669	109	-	-	83,169
10. Expansion Project for the Domestic Local and Long Distance Telephone Service	75,078	-	-	-	-	75,078
11. Construction of AIT Library	31,480	-	-	-	-	31,480
12. Sewerage System and Solid Waste of Bangkok Metropolis	997	67,192	281,380	386,252	101,900	837,721
13. Mae Wang Irrigated Agricultural Project	3,424	112,070	151	-	-	115,645
14. Submarine Cable Project	52,495	-	-	-	-	52,495
15. Kampaeng Saen Area Irrigated Agricultural Development Project	38,095	56,613	-	-	-	94,708
16. Youth's Welfare Centre	1,626	35,769	-	-	-	37,395
17. Nong Bua-Ban Lam Chi Bon Highway Project	-	104,520	-	-	-	104,520
18. Establishment Project for Maharaj Regional Hospital at Nakhon Srithamaraj Province	-	39,208	-	-	-	39,208

(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*
19. Petchburi Irrigated Agriculture Development Project	-	3,463	107,310	90,211	307	201,291
20. Agricultural Cooperatives Promotion Project	-	12,427	48,792	66,656	60	127,935
21. Coastal Aquaculture Centre in Songkla	-	12,201	-	-	-	12,201
22. Water Supply Project for Cambodian Refugee Camp	-	101,565	70,416	90,713	89,172	351,866
23. Rural Road Development in the Northern Region	-	3,325	174,460	207,604	417	385,806
24. Irrigated Agricultural Development Project in Pasak River Basin	-	-	7,530	45,176	136,104	188,810
25. Water Resources Development in the Eastern Thailand	-	-	48,401	120,687	142,520	311,608
26. Mae Khuang Irrigated Agriculture Development Project	-	-	32,035	160,921	486	193,442
27. Feasibility Study for the Construction of Bridges across the Chao Phya River from Northburi to Samutprakarn Provinces	-	-	2,664	121,064	296	124,024

(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*
28. Basic Design Study for Mahasarakham College of Nursing	-	-	35,147	-	-	35,147
29. Basic Design Study for Small Scale Dam Construction Project	-	-	39,231	-	-	39,231
30. Basic Design Study for Bang Saen Marine Science Center	-	-	19,542	-	-	19,542
31. Road Development in Northeastern Region	-	-	-	16,167	208,389	224,556
32. Detailed Design for the Pipe-line Construction in the East Coast	-	-	-	88,759	124,835	213,594
33. Development Project of Industrial Port in the Eastern Seaboard	-	-	-	13,257	285,619	298,876
34. Rama VI Bridge Rehabilitation Project	-	-	-	203,939	50,030	253,969
35. Water Supply Project in Detention Centre and Displaced Persons Camps in Thailand	-	-	-	11,293	50,471	61,764
36. Agricultural Development Survey	-	-	-	5,777	19,990	25,767

(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 [*]
37. Kaeng Khoi-Ban Mo Pumping Irrigation Project	-	-	-	96,370	53,661	150,031
38. Bangkok Highway Construction Project	-	-	-	2,963	126,205	129,168
39. Basic Design Study for the Establishment of National Export Training Institute	-	-	-	20,353	-	20,353
40. Basic Design Study for the PHC Training Centre Project	-	-	-	1,845	-	1,845
41. Basic Design Study for the Establishment Project of Inland Fisheries Centres	-	-	-	1,178	-	1,178
42. Basic Design Study for the Establishment Project of Educational Broadcasting Production Centre of STOU	-	-	-	7,838	-	7,838
43. Basic Design Study on the Vocational Development and Training Project for the Affected Population	-	-	-	14,314	-	14,314

* 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*
44. Basic Design Study for the Construction Project of Central Forest Research Laboratory and Training Centre	-	-	-	30,151	-	30,151
45. Project Finding for Industry, Mining and Power (Thailand and others)	3,736	794	-	384	3,587	8,501
46. Rehabilitation Project of Mae Moh Fertilizer Plant	60,691	-	-	-	-	60,691
47. ASEAN Rock Salt and Soda Ash Project	6,324	20,527	81,571	25,921	-	134,343
48. Upper Quae Yai River Hydro electric Development Project - Feasibility study -	8,829	105,225	6,290	-	-	120,344
49. Feasibility Study on the Construction of Integrated Flat Steel Mill Project	45,359	96,496	-	-	-	141,857
50. Nam Pai Chaem Rivers Hydro-electric Power Development	-	13,585	67,226	22,137	-	102,948
51. Samuthakorn Industrial Estate	-	36,341	19,141	-	-	55,482

(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*
52. Follow-up Survey (Thailand and others)	-	797	-	-	-	797
53. Master Planning Study for M E A's (Metropolitan Electricity Authority) Distribution Project	-	-	16,406	71,472	9,720	97,598
54. Feasibility Study for Ethylene and Vinyl Chloride Monomer Plants Project	-	-	52,466	3,226	-	55,692
55. Nam Yuam Hydro-electric Power Development	-	-	-	6,043	88,953	94,996
56. Promotion Program of the Metalworking Industry	-	-	52	5,721	-	5,773
57. Energy Conservation Project	-	-	-	2,337	91,460	93,797
58. Geothermal Development Project	-	-	-	39,607	136,698	176,305
59. The sub-regional Develop- ment study of the Upper- southern part of Thailand	-	-	-	-	5,558	5,558

* 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*
60. Feasibility Study for the Mae Chang Irrigation Project	-	-	-	-	70,570	70,570
61. Feasibility Study for Agricultural Cooperation in the Northeastern Thailand	-	-	-	-	4,722	4,722
62. Traffic Safety Plan Study for Roads in Thailand	-	-	-	-	4,115	4,115
63. Railway Track Elevation Project in the Metropolitan Area in Bangkok	-	-	-	-	2,074	2,074
64. Feasibility Study on the Establishment of large repair shipyard in Thailand	-	-	-	-	2,615	2,615
65. Preliminary Study and Master Plan on Flood Protection/Drainage Project in the Eastern Suburban Bangkok	-	-	-	-	4,590	4,590

*Provisional

(Continued)

Project	Total F.Y. 1954-F.Y. 1978	F.Y. 1979	F.Y. 1980	F.Y. 1981	F.Y. 1982*	Cumulative Total*
66. The Comprehensive Development Study of Coastal Shipping in the Kingdom of Thailand	-	-	-	-	5,503	5,503
67. Basic Study for Poverty Eradication Plan System	-	-	-	-	1,870	1,870
68. Project finding	-	-	-	-	3,587	3,587
69. Others	1,030,569	3,774	-	-	-	1,034,343
Total	2,732,362	1,135,287	1,151,087	1,981,851	1,827,384	8,827,971

* Provisional

Table 9. Development Cooperation Program
(Expenditures)

1,000 Yen

Project	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982*	Cumulative Total*
1. Basic Survey					
(1) Maize Development	10,375	-	-	-	10,375
(2) Beneficial Crop Development	4,409	-	-	-	4,409
(3) Development of TTCW-Mine	19,490	27,647	-	-	47,137
(4) Coffee Plantation Project	-	6,279	332	-	6,611
2. Financial Cooperation Survey	1,201	1,056	1,353	5,707	9,317
3. Technical Guidance Service (Participants & Experts)	11,272	13,468	18,211	11,671	54,622
Total	46,747	48,450	19,896	17,378	132,471

* Provisional

