

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

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 Program

Upper figure: 1,000 Yen  
Lower figure: U.S.\$1,000

Program	Total	F.Y. 1978	F.Y.1979	F.Y.1980	F.Y.1981*	Cumulative Total*
	F.Y.1954-F.Y.1977					
1. Training Program	2,053,033 6,605	402,455 1,912	388,276 1,772	485,605 2,141	616,220 2,794	3,945,589 15,224
2. Expert Assignment Program	2,401,519 7,513	300,772 1,429	261,608 1,194	387,483 1,708	505,069 2,290	3,856,451 14,134
3. Equipment Supply Program	161,794 554	28,681 136	83,973 383	82,932 366	118,515 537	475,895 1,976
4. Overseas Technical Cooperation Center Program	1,910,224 5,886	144,766 688	346,942 1,583	333,044 1,469	321,404 1,457	3,056,380 11,083
5. Health and Medical Cooperation Program	1,766,956 5,553	297,567 1,414	399,962 1,825	775,181 3,418	907,482 4,115	4,147,148 16,325
6. Agriculture, Forestry and Fisheries Cooperation Program	1,357,355 4,646	481,201 2,286	609,397 2,780	655,678 2,891	858,342 3,892	3,961,973 16,495
7. Industrial Development Cooperation Program	833,641 2,791	203,581 967	168,494 769	225,122 993	208,420 945	1,639,258 6,465
8. Development Survey Program	1,703,978 5,791	1,028,384 4,886	1,135,287 5,180	1,151,087 5,075	1,981,851 8,987	7,000,587 29,919
9. Development Cooperation	37,504 130	12,729 61	46,747 213	48,450 214	19,896 90	165,326 708
10. Japan Overseas Cooperation Volunteers	- -	222 1	1,815 8	1,486 7	11,311 51	14,834 67
11. Others	137,719 469	39,985 190	66,341 303	111,394 491	146,802 666	502,241 2,119
Grand Total	12,363,723 39,938	2,940,343 13,970	3,508,842 16,010	4,257,462 18,773	5,695,312 25,824	28,765,682 114,515

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\$

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Table 2. Training Program for Overseas Participants  
(Number of Thai 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	353	30	35	39	36	493
2. Public Works and Utilities	607	57	53	63	81	861
3. Agriculture, Forestry and Fisheries	757	71	48	59	81	1,016
4. Mining and Industry	247	30	21	42	40	380
5. Energy	72	-	-	11	7	90
6. Commerce and Tourism	85	9	9	8	10	121
7. Human Resources	265	17	14	14	2	312
8. Public Health and Medicine	372	30	31	26	42	501
9. Social Welfare	15	3	1	4	17	40
10. Others	69	1	-	1	2	73
Grand Total	2,842	248	212	267	318	3,887

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Table 3. 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	15 (10) <sup>2)</sup>	4 (4)	23 (4)	22 (17)	6 (6)	70 (41)
2. Public Works and Utilities	210 (141)	13 (11)	19 (18)	19 (16)	24 (24)	285 (210)
3. Agriculture, Forestry and Fisheries	176 (84)	18 (3)	31 (10)	49 (9)	62 (17)	336 (123)
4. Mining and Industry	40 (26)	5 (4)	15 (9)	6 (6)	7 (2)	73 (47)
5. Energy	27 (27)	- (-)	- (-)	3 (3)	4 (4)	34 (34)
6. Commerce and Tourism	- (-)	- (-)	3 (-)	- (-)	- (-)	3 (-)
7. Human Resources	51 (16)	26 (3)	9 (1)	8 (5)	10 (2)	104 (27)
8. Public Health and Medicine	304 (33)	10 (-)	88 (5)	205 (-)	214 (-)	791 (38)
9. Social Welfare	1 (1)	- (-)	- (-)	- (-)	1 (-)	2 (2)
10. Others	12 (12)	- (-)	- (-)	- (-)	- (-)	12 (12)
Grand Total	836 (350)	76 (25)	158 (47)	312 (56)	328 (56)	1,710 (534)

Note: 1) Includes number of experts of Project-type technical cooperation programs (1,382) \* Provisional

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

Table 4. Japan Overseas Cooperation Volunteers Program  
(Number of Japanese Volunteers)

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	-	-	-	-	-	-
2. Public Works and Utilities	-	-	-	-	-	-
3. Agriculture, Forestry and Fisheries	-	-	-	-	1	1
4. Mining and Industry	-	-	-	-	2	2
5. Energy	-	-	-	-	-	-
6. Commerce and Tourism	-	-	-	-	-	-
7. Human Resources	-	-	-	-	2	2
8. Public Health and Medicine	-	-	-	-	-	-
9. Social Welfare	-	-	-	-	-	-
10. Others	-	-	-	-	-	-
Grand Total	-	-	-	-	5	5

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Table 5. Equipment Supply Program  
(Expenditures)

1,000 Yen

Equipment	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981*	Total*
1. Equipment for Institute of Plant Physiology	487	-	-	-	487
2. Dental Equipment for Health Centre	7,601	-	-	-	7,601
3. Integrated Highland Agriculture Development Project	20,593	24,615	-	-	45,208
4. Equipment for Prevention of Plant Diseases	-	18,111	16,916	-	35,027
5. Medical Goods	-	37,127	4,788	-	41,915
6. Rice Production Equipment	-	4,120	1,500	-	5,620
7. Automatic Cancelling Machine	-	-	23,713	-	23,713
8. Equipment for Highland Agriculture	-	-	30,392	40,340	70,732

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1,000 Yen

Equipment	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981 *	Total *
9. Equipment for Coastal Fisheries Extension	-	-	4,432	1,087	5,519
10. Equipment Survey	-	-	1,191	3,828	5,019
11. Equipment for Maintenance Engineering of Permanent Railways	-	-	-	36,250	36,250
12. Equipment for Bamboo Craft Study	-	-	-	33,516	33,516
13. Equipment for Chemical Experiment	-	-	-	3,494	3,494
Total	28,681	83,973	82,932	118,515	314,101

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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. 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 Songhkla	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	377,573*	16	11
Total		1,943,830*	172	133

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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. 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	552,699	147	81
11. Family Planning	Jul. 1974 - Mar. 1984	604,574*	6	57
12. Promotion of Provincial Health Service	Apr. 1976 - Mar. 1984	399,084*	48	41
13. Nursing Education Project	Aug. 1980 - Jul. 1985	56,504*	7	5
14. Cambodian Refugees Camp	F.Y. 1979 - 1982	142,744*	434	2
Total		2,051,879*	761	186

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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. Sericultural Development	Mar. 1969 - Mar. 1980	570,865	45	13
2. Animal Health Improvement Project	Mar. 1977 - Mar. 1984	619,365*	40	18
3. Irrigated Agriculture Development Project in West Bank Track of the Greater Chao Phaya	Apr. 1977 - Apr. 1985	745,115*	35	22
4. Research and Development Project in Kasetsart University	Apr. 1980 - Apr. 1985	116,972*	16	6
5. Agricultural Extension and Mechanization Project in Kasetsart University	Jul. 1981 - Jun. 1986	26,957*	8	2
6. National Weed Science Research Institute	Apr. 1980 - Apr. 1985	112,322*	5	4
7. Coastal Aquaculture Development Project	Apr. 1981 - Mar. 1986	31,169*	5	2
8. Research and Training in Re-afforestation	Jul. 1981 - Jul. 1986	5,245*	6	1
Total		2,228,010 *	160	68

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Table 6.4 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	358,112*	24	14
6. Technological Development of Natural Rubber Processing	Apr. 1977 - Sept. 1983	194,200*	28	21
Total		988,713*	95	74

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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. Economic & Technical Cooperation Survey	2,354	1,913	58	1,782	1,515	7,622
2. Bangkok Telephone Network	261,028	119,852	121,099	38,985	-	540,964
3. Pattaya Tourism Development	162,468	173,056	-	-	-	335,524
4. Separate System of Metropolitan Water Supply Works	78,536	65,333	-	-	-	143,869
5. Road Construction between Petchabun and Chaibadan	3,327	105,415	-	-	-	108,742
6. Master Plan and Feasibility Study on the Greater Mae Klong River Basin	106,957	147,251	92,971	-	-	347,179
7. Expansion Project of Kasetsart University	40,576	27,256	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

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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*
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	735,821
13. Mae Wang Irrigated Agricultural Project	-	3,424	112,070	151	-	115,645
14. Submarine Cable Project	2,665	49,830	-	-	-	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

\* 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*
19. Petchburi Irrigated Agriculture Development Project	-	-	3,463	107,310	90,211	200,984
20. Agricultural Cooperatives Promotion Project	-	-	12,427	48,792	66,656	127,875
21. Coastal Aquaculture Centre in Songkla	-	-	12,201	-	-	12,201
22. Water Supply Project for Cambodian Refugee Camp	-	-	101,565	70,416	90,713	262,694
23. Rural Road Development in the Northern Region	-	-	3,325	174,460	207,604	385,389
24. Irrigated Agricultural Development Project in Pasak River Basin	-	-	-	7,530	45,176	52,706
25. Water Resources Development in the Eastern Thailand	-	-	-	48,401	120,687	169,088
26. Mae Khuang Irrigated Agriculture Development Project	-	-	-	32,035	160,921	192,956
27. Feasibility Study for the Construction of Bridges across the Chao Phya River from Northburi to Samuthprakarn Provinces	-	-	-	2,664	121,064	123,728

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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*
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	16,167
32. Detailed Design for the Pipe-line Construction in the East Coast	--	-	-	-	88,759	88,759
33. Development Project of Industrial Port in the Eastern Seaboard	--	-	-	-	13,257	13,257
34. Rama VI Bridge Rehabilitation Project	--	-	-	-	203,939	203,939
35. Water Supply Project in Detention Centre and Displaced Persons Camps in Thailand	--	-	-	-	11,293	11,293
36. Agricultural Development Survey	--	-	-	-	5,777	5,777

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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*
37. Kaeng Khoi-Ban Mo Pumping Irrigation Project	-	-	-	-	96,370	96,370
38. Bangkok Highway Construction Project	-	-	-	-	2,963	2,963
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

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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*
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)	2,522	1,214	794	-	384	4,914
46. Rehabilitation Project of Mae Moh Fertilizer Plant	12,976	47,715	-	-	-	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	96,498	-	-	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

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(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*
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	87,878
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	6,043
56. Promotion Program of the Metalworking Industry	-	-	-	52	5,721	5,773
57. Energy Conservation Project	-	-	-	-	2,337	2,337
58. Geothermal Development Project	-	-	-	-	39,607	39,607
Others	1,030,569	-	3,774	-	-	1,034,343
<b>Total</b>	<b>1,703,978</b>	<b>1,028,384</b>	<b>1,135,287</b>	<b>1,151,087</b>	<b>1,981,851</b>	<b>7,000,587</b>

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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. Basic Survey					
(1) Maize Development	640	10,375	-	-	11,015
(2) Sinker Species Development	2,689	-	-	-	2,689
(3) Beneficial Crop Development	-	4,409	-	-	4,409
(4) Development of TTCW-Mine	-	19,490	27,647	-	47,137
(5) Coffee Plantation Project	-	-	6,279	332	6,611
2. Financial Cooperation Survey	-	1,201	1,056	1,353	3,610
3. Technical Guidance Service (Participants & Experts)	9,400	11,272	13,468	18,211	52,351
<b>Total</b>	<b>12,729</b>	<b>46,747</b>	<b>48,450</b>	<b>19,896</b>	<b>127,822</b>

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