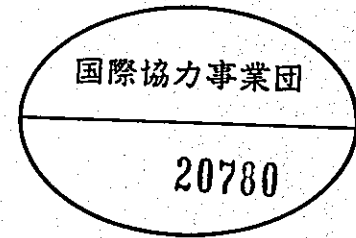


89.4.3

インドネシア国における累計経費の統計

STATISTICS ON CUMULATIVE EXPENDITURE OF JICA TECHNICAL COOPERATION BY PROJECT IN THE REPUBLIC OF INDONESIA

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STATISTICS ON CUMULATIVE EXPENDITURE OF JICA TECHNICAL COOPERATION BY PROJECT IN THE REPUBLIC OF INDONESIA

(NOTES)

- (1) This report describes the cumulative expenditure of JICA Technical Cooperation made for the Republic of Indonesia by activities, project, and type of cooperation from the fiscal year, in which JICA'S technical cooperation was initiated, to fiscal year 1986.
- (2) This report was compiled and prepared through the "JICA Economic and Technical Cooperation Performance by Country" (descriptions include the results in fiscal year 1985), supplemented by the results obtained during fiscal year 1986.

May, 1988

Information and Statistics Division
General Affairs Department

NOTES

The following symbols are used in these tables:

- ⊙ Performance of grant aid assistance (or reparation)
- * expert(s) dispatched for technical assistance on a particular project (i.e. Technical Cooperation Center Programme) and so on as financed by Expert Dispatch Programme of JICA.
- ... Unknown
- () The average value of actual expenses for surveys involving multiple nations divided by the number of nations involved.
- [] Actual expenses or numbers of survey team members conducting two or more projects concurrently in the same nation.
- + () Participants (Embassy staff members, etc.) in the field.
- f () Officials accompanying with survey teams from the Ministry of Foreign Affairs.
- Ⓐ Actual expenses and numbers of professors (covered by costs dispatch for experts).
- Ⓑ Expenses for implementation of project surveys.
- Ⓒ Expenses for engineering.
- Ⓓ Expenses for preparation of reports.
- Ⓔ Expenses for activities in the field.
- Ⓕ Expenses to make up for wages paid from the company.
- Ⓖ Expenses for equipment carried by experts, etc.
- Ⓗ Expenses for supply of equipment.
- Ⓘ After-care survey
- Ⓜ Survey directly related to Grant Aid Programme
- Ⓚ Survey on Project Study
- Ⓛ Basic survey for project formulation
- Ⓜ Survey on aid evaluation
- Ⓝ Survey for Overseas Development Plan Survey Programme
- Ⓞ Basic Survey for Resources Development Cooperation

DAC : Development Assistance Committee

(NATION) Indonesia

(Unit: 1000 yen)

Programme	Fiscal year	Trainees	Survey teams	Experts	Volunteers	Equipment supply	Other	Total
(Training Programme for Overseas Trainees)	~1983	5,565,318	27,541					5,592,859
	1984	904,118	16,235					920,353
	1985	879,645	16,384					896,029
	1986	767,511	9,305					776,816
	Cumulative total	8,116,592	69,465					8,186,057
(Total for trainee acceptance projects)		(8,116,592)	(69,465)					(8,186,057)
(Expert Dispatch Programme)	~1983			7,696,520		655,951		8,352,471
	1984			884,352		95,152		979,504
	1985			858,172		58,773		916,945
	1986		3,645	862,235		86,120		952,000
	Cumulative total		3,645	10,301,279		895,996		11,200,920
(Total for projects requiring the dispatching of technical advisers)			(3,645)	(10,301,279)		(895,996)		(11,200,920)
(Equipment supply programme)	~1983		15,131			718,647		733,778
	1984		1,004			83,929		84,933
	1985		922			62,026		62,948
	1986		3,365			41,334		44,699
	Cumulative total		20,422			905,936		926,358
(Total for equipment supply programme)			(20,422)		(905,936)			(926,358)

(NATION) Indonesia

(Unit: 1000 yen)

Programme	Fiscal year	Trainees	Survey teams	Experts	Volunteers	Equipment supply	Other	Total
(Japan Overseas Cooperation)	~1983		2,387		4,626	3		7,016
	Cumulative total		2,387		4,626	3		7,016
(Total for Volunteers Programme)			(2,387)		(4,626)	(3)		(7,016)
(Youth invitation programme)	1984	208,953	5,290				19,352	233,595
	1985	211,473	5,223				17,712	234,408
	1986	190,008	4,082				15,387	209,477
	Cumulative total	610,434	14,595				52,451	677,480
(Total for youth invitation programme)		(610,434)	(14,595)				(52,451)	(677,480)
(Public welfare programme for experts)	~1983		1,366				198,253	199,619
	1984						45,122	45,122
	1985		785				39,411	40,196
	1986		704				40,760	41,464
	Cumulative total		2,855				323,546	326,401
(Total for public welfare programme for experts)			(2,855)				(323,546)	(326,401)
(Programme for recruiting and training experts)	~1983		29,750				639,765	669,515
	1984		17,331				135,471	152,802
	1985		12,614				137,192	149,806
	1986		10,540				119,926	130,466
	Cumulative total		70,235				1,032,354	1,102,589
(Total for programme for training and retaining experts)			(70,235)				(1,032,354)	(1,102,589)

[Project-Type Technical Cooperation Programme]
 Technical Cooperation Center Programme

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items			
							Ongoing	New					
Fishery and Fishing Technology Cooperation plan Type of agreement: Agreement Date signed: July, 1969 Cooperation term: July 1969 - July 1972 Technical Cooperation in the Field of Fishery Research and Education	This plan was created as part of the overall bilateral cooperation regarding the "Tentative Agreement on Fishing Operations by Japanese and Okinawan Fishing Boats near the Indonesian Islands," which was signed on July 27, 1968. This plan became effective through the "cooperation between the governments of Japan and Indonesia regarding technical cooperation in the areas of research and education related to fisheries." Cooperation has been provided for research conducted in the fields of: (1) fishery training, (2) fishing operations, (3) harvesting aquatic life, and (4) processing, preserving, and storing marine products. All research was conducted at the Fishery Bureau of Indonesia.	1969	On-site survey	Apr. 20.- May 19, '69	7	3,000	-	4	5,848		130,641	139,489	
		1970			1		-	2	19,053			19,053	
		1971	Evaluation (survey)	Jan. 15 - 24, '71	2	732	-	-	16,882			16,430	34,044
		1972					-	* 3
		Cumulative total					3,732			41,783		147,071	192,586
The Sulawesi Industrial Vocational Training Centre Type of agreement: Agreement Date signed: February 7, 1974 Cooperation terms: (Initial): February 7, 1974 - February 8, 1979 (Extension): February 9, 1979 - February 8, 1980 (R/D)	The Republic of Indonesia has requested that Japan establish a vocational training center in Ujung Pandang to help implement the industrialization policy, to train unskilled laborers, and to promote the industrialization of Indonesia. In response to this request, Japan dispatched a preliminary survey team in October of 1972 and a work	1972	Preliminary survey	Oct. 16 - Nov. 8, '72	5	3,446						3,446	
		1973	Implementation survey	May 28 - Jun. 13, '73	6	3,522	-	2	4,846			2,116	10,484
		1974	Technical advisory survey	Sep. 23 - Oct. 6, '74	(2)	(400)	2	3	31,794			81,601	(400) 113,395

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
	<p>field survey team in May of 1973. These surveys resulted in an agreement being signed by both governments in February, 1974, to establish a vocational training center and provide technical cooperation.</p> <p>Five years after this technical cooperation was initiated, Japan dispatched an evaluation team in November of 1978 (before the term of the agreement expired on February 8, 1979) to evaluate how much the technical cooperation had achieved since the agreement was signed, and the possibility of turning the center over to Indonesian management.</p> <p>The areas of this technical cooperation included: (1) general vocational training, (2) machine processing, (3) electricity, (4) architecture, (5) automobile mechanics, (6) sheet metal, (7) welding, and (8) woodworking.</p> <p>This evaluation revealed that further technical cooperation was needed, particularly for the training departments of the center, the electronics course offered by the electrical department, and training by the woodworking and architectural departments.</p> <p>This was confirmed, and both governments agreed to extend technical cooperation for another year. The center was</p>	1975	Technical advisory survey	Mar. 19 - Mar. 27, '76	2	1,082	5	5	54,654		159,779	215,515
		1976	Technical advisory survey	Feb. 17 - Feb. 26, '77	2	1,169	5		84,359		6,247	91,775
		1977					7	6	116,195		35,206	151,401
		1978	Evaluation (survey)	Nov. 6 - 21, '78	4	Ⓔ 8 2,615	9	-	84,626		Ⓔ 2,968 20,540	110,757
		1979				Ⓔ 51	2	-	17,614		Ⓔ 1,804	19,469
		1980									Ⓔ 124	124
		1982	After-care (survey)	Jun. 9 - 22, '82	4	3,397	-	3	4,971	Spare parts for the machinery, electricity, sheet metal, automobile departments	20,799	29,167

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)																									
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)																								
							Ongoing	New																												
	<p>handed over to Indonesian management on February 8, 1980 to officially complete the cooperation project.</p> <p>[NUMBER OF COUNTERPARTS ACCEPTED]</p> <table border="1"> <tr> <td>FISCAL YEAR</td> <td>1974</td> <td>'75</td> <td>'76</td> <td>'77</td> <td>'78</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>7</td> <td>6</td> <td>7</td> <td>6</td> <td>0</td> </tr> <tr> <td>FISCAL YEAR</td> <td>1979</td> <td>'80</td> <td>'81</td> <td>'82</td> <td></td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>8</td> <td>0</td> <td>0</td> <td>0</td> <td></td> </tr> </table>	FISCAL YEAR	1974	'75	'76	'77	'78	NUMBER OF PERSONS	7	6	7	6	0	FISCAL YEAR	1979	'80	'81	'82		NUMBER OF PERSONS	8	0	0	0		Cumulative total				15,690			399,059		331,184	745,933
FISCAL YEAR	1974	'75	'76	'77	'78																															
NUMBER OF PERSONS	7	6	7	6	0																															
FISCAL YEAR	1979	'80	'81	'82																																
NUMBER OF PERSONS	8	0	0	0																																
The Sumatra Chemical Industry Training and Development Centre Type of agreement: R/D Date signed: November 19, 1981	In its third five-year development plan (1979 - 1983), the Government of Indonesia sought to achieve an annual average growth rate of 11% for the industrial sector. In particular, the government attempted to establish chemical industries to utilize the country's abundant underground resources, while creating the infrastructure for industrial development. However, Indonesia has an inadequate number of (1) engineers and skilled workers and (2) insufficient technical guidance and organized information services, all of which are needed for developing chemical industries that will form the infrastructure for further industrialization.	1979	Preliminary survey	Sep. 6 - 27, '79	5	4,323			320			4,643																								
		1980					ⓑ 72	-	3	4,534			4,606																							
		1981	Implementation (survey)	Nov. 5 - 22, '83	5	ⓑ 330 Ⓒ 4,178							4,508																							
		1982					ⓑ 278 Ⓒ 9,487	-	5	20,546	Variable resistance, universal bridge, experimental system for automatic control	103,659	133,970																							

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)	
							Ongoing	New					
<p>Technical operation term: (Initial): November 19, 1981 - November 18, 1986</p> <p>Cooperating organization in Indonesia: Education and Training Center Bureau of the Ministry of Industry</p> <p>Cooperating organizations in Japan: National Chemical Laboratory for Industry, Agency of Industrial Science and Technology, Ministry of International Trade and Industry, Cosmo International Co., Ltd.</p>	<p>Consequently, Indonesia requested technical cooperation from Japan. In November of 1981, Japan signed the Minutes of Discussion (R/D) for establishing the Chemical Industry Training and Development Center (at the Education and Training Center of the Ministry of Industry). This center was to be established to train engineers for chemical related industries, provide technical assistance and information services, develop local industries, increase employment, and to help achieve a stable standard of living for the Indonesian people.</p> <p>The grant financial assistance without compensation from Japan for building the facilities of the Center was determined, and an Exchange of Official Notes (E/N) was carried out in June of 1981. In September of 1983, academy courses began, and 110 trainees have been accepted for enrollment in the chemical engineering and chemical machinery courses every year since then. In fiscal year 1984, Japan dispatched two long-term technical advisers, in addition to six technicians already dispatched, and included in its grant a universal tester and other equipment. Four trainees</p>	1983	Mutual consultation (survey)	Feb. 19 - Mar. 2, '84		⑤ 5,051 3,328	2	4	104,497	Universal tester, cooling tower, vehicles, motor for agitator, etc.	⑥ 5,083 72,825	190,784	
		1984	Technical advisory survey	Oct. 5 - 14, '84	5	10,521	6	8	98,756		⑥ 5,044 11,076	125,397	
		1985	Preparation of reports on the above				⑤ 43	9	8	143,971	Gasecus Reagents, Experimental apparatus	⑥ 6,396 42,724	193,134
		1986					3,139			140,392		⑥ 5,049 46,426	195,006
		Cumulative total					40,750			513,016		298,282	852,048

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)									
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items										
							Ongoing	New												
	<p>were also accepted. In fiscal year 1985, mechanical maintenance and operation courses were introduced involving the use of a mini-plant during April and August to improve the technical level of skilled workers. Technical assistance was also provided with the implementation of these training courses.</p> <p>[NUMBER OF COUNTERPARTS ACCEPTED]</p> <table border="1"> <thead> <tr> <th>FISCAL YEAR</th> <th>1982</th> <th>'83</th> <th>'84</th> <th>'85</th> </tr> </thead> <tbody> <tr> <td>NUMBER OF PERSONS</td> <td>4</td> <td>4</td> <td>2</td> <td>5</td> </tr> </tbody> </table>	FISCAL YEAR	1982	'83	'84	'85	NUMBER OF PERSONS	4	4	2	5									
FISCAL YEAR	1982	'83	'84	'85																
NUMBER OF PERSONS	4	4	2	5																
<p>The Volcanic Sabo Technical Centre</p> <p>Type of agreement: R/D</p> <p>Date signed: August 26, 1982</p> <p>Technical cooperation term: (Initial): August 26, 1982 - August 25, 1987</p> <p>Cooperating organization in Indonesia: Water Resources Bureau of the Ministry of Public Works</p> <p>Cooperating organization in Japan: Ministry of Construction</p>	<p>Many active volcanos, such as Mt. Merapi, Mt. Kulau, and Mt. Semeru, are located throughout Indonesia. The tephra ejected by these volcanos have caused frequent disasters due to the volcanic mud flows that accompany the heavy rainfall during the rainy season.</p> <p>In view of this situation and based on the request issued from the Republic of Indonesia, Japan has been conducting an ongoing survey on the Kulau volcano, providing technological assistance for protection against landslides, and has helped to establish a master plan involving Volcanic Sabo technology for the Mt. Merapi</p>	1981	Preliminary survey	Oct. 7 - 22, 81	5	3,488					3,488									
		1982	Preparation of reports on the above				① 248													
		1982	Implementation (survey)	Aug. 15 - 29, 82	5	6,056	-	10	30,058	Telemeter observation system, audio-visual equipment, etc.	81,000	117,362								

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)	
							Ongoing	New					
<p>The Centre for Vocational and Extension Service Training</p> <p>Date signed: February 16, 1983</p> <p>Technical cooperation term: (Initial): Feb. 16, 1983 - Feb. 15, 1988</p> <p>Cooperating organizations in Indonesia: Ministry of Labor and Immigration, and Small-scale Industry Bureau of the Ministry of Industry</p> <p>Cooperating organizations in Japan: Ministry of Labor, Ministry of International Trade and Industry, Employment Promotion Corporation, Small and Medium(-sized) Enterprises Agency, Small and Medium(-sized) Enterprises Corporation</p>	<p>In January of 1981, former Japanese Prime Minister Suzuki visited various ASEAN nations, and presented the concept of training talented people from these countries to provide the trained human resources so urgently needed for the economic development of the ASEAN nations.</p> <p>According to this concept, the governments of Japan and Indonesia held many discussions to clarify the issues involved in technical cooperation. A human resources training plan was determined as one project for training talented people to establish an industrial infrastructure in Indonesia, supported by Japanese technical cooperation and financial grant aid.</p> <p>Based on the discussions held with Indonesian officials regarding the project concept and technical cooperation plan, and according to the results of the preliminary survey of October of 1982, and the two contact missions conducted in August and November of 1981, a plan was selected to be implemented at the newly established "Training Centers for Vocational Training Instructors and Small Industry Promoters." This plan consisted of the following two segments:</p> <p>(A) A plan to train promoters for small-scale industrial</p>	1981	Contact mission I	Aug. 19 - Aug. 22, '81	8	2,434					13,810		
		1981	Contact mission II	Nov. 30 - Dec. 20, '81	7	9,587	-	6	1,789				
		1982	Preliminary survey	Oct. 5 - 17, '82	17	12,690	-	3	4,246			24,126	
		1982	Implementation (survey)	Feb. 8 - 17, '83	10	7,190							
		1983	Mutual consultation (survey)	Dec. 14 - 23, '83	8	5,744	-	11	212,478	Personal computers, video camera sets, printers, etc.	© 9,257 26,869	237,237	
		1984	Technical advisory	Mar. 11 - 19, '85	8	5,024	10	6	221,816	Offset printers, typewriters, etc.	© 8,440 1,957		
		1985	Technical advisory survey	Nov. 13 - 21, '85	5	6,553		15	7	282,858		6,711 24,357	320,479
		1986										4,297 46,536	306,511

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		
							Ongoing	New				
	development; and (B), a plan for training vocational training instructors who would, in turn, train the managing staff and instructors needed for establishing additional vocational training schools. The purpose of the small-scale industry segment of this project (A) is to promote small-scale industries in Indonesia. Three related projects have already been carried out: ① the training of promoters in charge of technological assistance and improvement, the management of small-scale industries, and corporate training for these enterprises, ② basic surveys and studies related to small-scale industries, and ③ consultations with small-business operators and small industry promoters. The vocational training instructors segment (B) consisted of a training plan for vocational training instructors to ensure the training of management staff and instructors needed for establishing additional vocational training schools. Technical cooperation was provided by Japan for the (A) and (B) segments at the center, which was built with grant aid provided by Japan. Based on the R/D agreement signed and exchanged on February 16, 1983, Japan dispatched five long-term experts advisers (for the	Cumulative total				71,187			956,900		128,424	1,156,511

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)								
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)									
							Ongoing	New												
	<p>R/D agreement was expected to be revised in fiscal year 1986.</p> <p>[NUMBER OF COUNTERPARTS ACCEPTED]</p> <table border="1"> <tr> <td>FISCAL YEAR</td> <td>'83</td> <td>'84</td> <td>'85</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>4</td> <td>5</td> <td>4</td> </tr> </table>	FISCAL YEAR	'83	'84	'85	NUMBER OF PERSONS	4	5	4	Cumulative total				15,539			388,939		287,926	692,404
FISCAL YEAR	'83	'84	'85																	
NUMBER OF PERSONS	4	5	4																	
<p>The Telephone Outside Plant Maintenance and Training Centre</p> <p>Type of agreement: R/D</p> <p>Date signed: Feb. 8, 1986</p> <p>Technical cooperation term: (Initial): April 1, 1986 - March 31, 1990</p> <p>Cooperating organizations in Indonesia: Posts and Telecommunications Bureau, and Electricity and Telecommunication Public Corporation</p> <p>Cooperating organizations in Japan: Ministry of Posts and Telecommunications, and NTT</p>	<p>The Government of Indonesia planned to establish telephone line maintenance centers in major cities throughout Indonesia to improve the skills of telephone maintenance personnel, and to strengthen the maintenance system. This plan involved practical measures for improving telephone system-related maintenance outside of plants, as part of Indonesia's Fourth National Development Plan. Unfortunately, the development of the related technology had been somewhat delayed.</p> <p>The Electricity and Telecommunications Public Corporation of Indonesia (PERUMTEL), however, had no previous experience in establishing such a center. Therefore, as the first step, PERUMTEL decided to build a model center in the city of Bandung, where the its head office is located. Japanese technical cooperation was</p>	1984	Preliminary survey	June 19 - 30, '84	5	3,368	-	4	5,180		68	8,616								
		1985	Implementation (survey)	Feb. 2 - 11, '86	4	2,458			2,586		-		5,044							
		1986					2,540			102,544		4,923 6,260	116,267							
			Cumulative total					8,366			110,310		11,251	129,927						

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)						
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)					
							Ongoing	New									
	(2) Skill improvement course (3) Comprehensive training course (4) Instructor's course [NUMBER OF COUNTERPARTS ACCEPTED] <table border="1" data-bbox="721 695 1018 842"> <thead> <tr> <th>FISCAL YEAR</th> <th>1984</th> <th>1985</th> </tr> </thead> <tbody> <tr> <td>NUMBER OF PERSONS</td> <td>0</td> <td>3</td> </tr> </tbody> </table>	FISCAL YEAR	1984	1985	NUMBER OF PERSONS	0	3										
FISCAL YEAR	1984	1985															
NUMBER OF PERSONS	0	3															
Electronics Polytechnic	The Republic of Indonesia has been emphasizing technical/vocational education and training in its fourth five-year development plan to acquire more mid-level and high-level technicians. The government also considers the expansion of polytechnics as being particularly urgent. As part of the fourth five-year development plan, the establishment of an electronics polytechnic was planned for training electronics technicians. For this reason, Indonesia requested technical cooperation and grant aid from Japan. After the request was received by Japan, a Japanese contact mission was dispatched to determine the basic concepts of the Indonesian plans in January of 1985. A preliminary survey was conducted in July of 1985, and a long-term survey was initiated in November of 1985.	1984	Preliminary survey	Jan. 20 - 26, '85	3	1,652	-	-	-	-	-	1,652					
		1985	Preliminary survey	Jul. 21 - Aug. 3, '85	7	5,538	0	3	2,793	-	-	8,331					
		1986					3,301			210			3,511				
		Cumulative total					10,491			3,003			13,494				

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
JAPAN - ASEAN SCIENTIFIC AND TECHNICAL COOPERATION Cooperating organizations in Indonesia: Agency of Science and Technology, and the Applied Physics Research and Development Center Cooperating organizations in Japan: Ministry of International Trade and Industry, and Research Institute for Polymers and Textiles	The technical cooperation to be provided to Indonesia in the field of materials science was determined as "research on polymers." An implementation (survey) team was dispatched to Indonesia in December of 1985 to determine the detailed contents of the plan. The project did not begin immediately. A five-year implementation of this technical cooperation was determined after further discussing the work plan in July of 1987.	1985	Preliminary survey	Aug. 13 - 13, '85	4	6,503		2	...	-	6,503	
		1985	Implementation (survey)	Dec. 15 - 17, '85	4							
		1986				7,290			699		© 269	
		Cumulative total				13,793			699			
Technical advisory survey Survey term: September 17 - October 6, 1974	(Indonesia and Malaysia) See the section on Asia for general information.	1974	Technical advisory survey	Sep. 17 - Oct. 6, '74	(3)	(400)					(400)	
					(3)	(400)					(400)	

NATION) Indonesia

(Unit: 1000 yen)

Programme	Fiscal year	Trainees	Survey teams	Experts	Volunteers	Equipment supply	Other	Total
Other	Until 1983			1,576		56,566		58,142
	Cumulative total			1,576		56,566		58,142
(Total for Technical Cooperation Center programme)			(200,886)	(2,771,930)		(1,677,810)		(4,650,626)

Health and Medical Cooperation Programme

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)			
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items				
							Ongoing	New						
Medical Faculty of Padjadjaran University Type of agreement: R/D Date signed: August 9, 1971 Cooperation term: April, 1966 - March, 1972 Cooperating organization in Japan: Tokyo Women's Medical College	The Government of Indonesia requested that Japan provide technical cooperation for the oral surgery division of Medical Faculty of Padjadjaran University. Japan dispatched Dr. Chuji Imai, a specialist in oral surgery and assistant professor at Tokyo Women's Medical College, during fiscal year 1966 for a three-year period to initiate technical cooperation with the oral surgery division. From fiscal year 1967 to fiscal year 1970, Japan also provided many items of dental equipment for this technical cooperation project.	1966					* 1		...	Dental equipment	3,750	3,750		
		1967					1		...					
		1968					1	2	...		Oral surgery equipment	5,090	5,090	
		1969					1		...			355	355	
		1970					1	1	...					
		1971	Implementa- tion (sur- vey)	July 21 - Aug. 12, '71	[4]	[2,187]	1	-	...					[2,187]
		1984	Post evalua- tion (sur- vey)	Mar. 4 - 11, '85	[4]	[2,641]		-					-	[2,641]
The technical cooperation stipulated in the R/D agreement concluded for this project was completed in fiscal year 1971. A survey of the detailed results of this cooperation was conducted in fiscal year 1985.		1985	After- care (sur- vey)	July 22 - 31, '85	4	3,383			-		-	3,383		
		1986	After- care (sur- vey)						7,198		43,629		50,827	
		Cumulative total					8,211			7,198		52,824	68,233	

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)	
							Ongoing	New				
<p>Central General Hospital, Western Java Type of agreement: R/D Date signed: July 11, 1967 Technical cooperation term: April 1968 - March, 1972 Cooperating organization in Japan: Medical department of Kobe University</p> <p>The initial purpose of this project, which was part of the technical cooperation with the Government of Indonesia for medical treatment, was to establish a central clinical testing facility for Bandung Central General Hospital. This project involved the dispatching of specialists from Japan and the training of Indonesian doctors in Japan.</p> <p>Such medical equipment as glassware, anesthetic and urinologic equipment, and items needed for medical tests, physiology, chemistry, microbiology, blood tests, and bacteriology were granted to the hospital from fiscal year 1968 to fiscal year 1970. Trainees from Indonesia were also accepted at Kobe University, and efforts were made to further train Indonesian doctors. This project resulted in the establishment and operation of three sections: a physiological testing room, a blood testing room, and a biochemical testing room. This technical cooperation project was completed according to the R/D agreement concluded in fiscal year 1971. A survey of the detailed contents of after-care cooperation was conducted in fiscal year 1985.</p>	1967	Field survey	June 22 - July 12, '67	4								
	1968						-	5	...	Equipment for anesthetic and urinologic sections, and glassware	40,522	40,522
	1969						3	7	...	Dual-element phonocardiograph	17,859	17,859
	1970						3	3	...	Equipment for thoracic surgery	1,620	1,620
	1971						3	1				
	1984	Post evaluation (survey)	Mar. 4 - 11, '85	[4]	[2,641]				-		-	[2,641]
	1985	After-care (survey)	June 3 - 10, 1985	2	1,373				-		-	1,373
	1986	After-care (survey)									26,632	26,632
	Cumulative total					4,014			0		86,633	90,647

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)	
							Ongoing	New					
Cooperating organization in Japan: Medical department of Kobe University	cooperation term of fiscal year 1968 and 1969.	1971	Field survey	July 21 - Aug. 12, '71	[4]	[2,187]					[2,187]		
		1972						Ⓐ 2	Ⓐ 1,858			1,858	
		Cumulative total					2,187			1,858	10,778	14,823	
The Lung-Surgery Cooperation with the Persahabatan Hospital Type of agreement: R/D Date signed: August 9, 1971 Cooperation term: 1969 - 1974 Cooperating organizations in Japan: Tuberculosis Prevention Association, and Ministry of Health and Welfare	Based on the results of provisional consultations made in fiscal year 1969, specialists were dispatched, a grant for equipment was made, and Indonesian trainees were accepted beginning in fiscal year 1970 to commence full-scale technical cooperation. In fiscal year 1970, a primary "team" of one specialist, a second team of two specialists from the Nakano Hospital of the National Sanitoria, and a third team of two specialists from the Tokyo Hospital of the National Sanitoria were dispatched. These three teams were led by Dr. Masatoshi Shiozawa of the Tuberculosis Clinic. At the same time, a supply for such equipment as a X-ray system for a mobile clinic and an Aika twin-body type spirometer, as well as Kanamycine sulphate, was provided and technical cooperation was jointly carried out by the above governmental agencies of Japan and private organizations.	1969					-	1	...	Anesthetic equipment, and equipment for testing the lungs	6,278	6,278	
		1970		July 21 - Aug. 12, '71			-	6	...	X-ray system for thoracic surgery	4,352	4,352	
		1971	Field survey	Nov. 22	[4]	[2,187]	2	3	...	X-ray system	20,695	22,882	
		1972					-	2	1,674	Ⓒ 373		2,047	
		1973					-	Ⓐ 1 2	Ⓐ 968 1,740		387	3,095	
		1974					-	Ⓐ 1	Ⓐ 1,073		317	1,390	
		Cumulative total					2,187			5,455		32,401	40,044

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)			
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)		
							Ongoing	New						
Clinical Testing Division of Jakarta Central Hospital Type of agreement: R/D Date signed: August 9, 1971 Cooperation term: April, 1972 - March, 1975 Follow-up term: April, 1975 - March, 1976 Cooperating organization in Japan: Medical department of Kobe University	The medical cooperation field survey team was dispatched in August of 1971, and an R/D agreement on the method of cooperation, etc., was officially determined based on the results of this survey. The contents of this cooperation included technical cooperation in the areas of medical examination and treatment, and guidance in research by the project system for the clinical testing division. Beginning in fiscal year 1972, spectrophotometers and analysis equipment were provided through a grant to improve clinical testing. Cooperation according to the R/D agreement was completed in fiscal year 1974. Follow-up cooperation was subsequently carried out.	1971	Field survey	July 21 - Aug. 12, '71	[4]	[2,187]					[2,187]			
		1972								Constant-voltage supply system	16,727	16,727		
		1973						-	3	10,083	Universal automatic analyzer	© 540 7,882	18,505	
		1974						2	-	10,695	Automatic analyzer	© 307 22,587	33,589	
		1975						2	-	6,026		1,242	7,268	
		Cumulative total								2,187		26,804	49,285	78,276
Centre for Biomedical Research Type of agreement: R/D Date signed: March 13, 1975 Cooperation terms: (Initial): April, 1975 - March, 1980 (Follow-up): April, 1980 - March, 1982 Cooperating organization in Japan: National Institute of Health	The Government of Indonesia requested technological assistance from Japan regarding biomedical testing, examination, and administration. In response to this request, Japan dispatched a medical cooperation basic survey team in fiscal year 1974. Surveys and provisional consultations were conducted to set up a new project. Based on the results, Japan dispatched a medical cooperation field survey team in the same year, and made an official determination to	1974	Field survey	Feb. 28 - Mar. 15, '75	5	2,844						2,844		
		1975							434	3	1,472	Automatic sealer for vaccine ampoules	© 51 3,523	5,480
		1976	Mutual consultation (survey)	Feb. 22 - Mar. 4, '77	3	1,706			6	23,559	Automatic sealer(s) for vaccine ampoules	59,617	84,882	
		1977					73	1	7	17,561	Freeze-dryer	© 2,429 99,663	119,726	

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)							
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)								
							Ongoing	New											
<p>provide medical cooperation. An R/D agreement was also concluded that determined the items for which cooperation would be provided, and the term of technical cooperation for the project system to begin in fiscal year 1975 for a five-year period. This cooperation involved the following: cooperation to be provided to support the research project on viruses, and to standardize drugs made from bacterial cultures for the Centre for Biomedical Research of the Ministry of Health in the Republic of Indonesia. According to the R/D agreement, the term for this project ended in March of 1980. Japan dispatched an evaluation survey team in February of 1980 to evaluate the results of the above cooperation. As a result of this evaluation, Japan determined that such cooperation would continue for two more years as a follow-up measure.</p> <p>(NUMBER OF COUNTERPARTS ACCEPTED)</p> <table border="1" data-bbox="647 1522 1068 1669"> <tr> <td>FISCAL YEAR</td> <td>1975-1980</td> <td>1981</td> <td>1982</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>21</td> <td>0</td> <td>0</td> </tr> </table>	FISCAL YEAR	1975-1980	1981	1982	NUMBER OF PERSONS	21	0	0	1978	Mutual consultation (survey)	June 20 - 30, '78	3	2,032	1	9	23,163	Breeding boxes for animals to be used in experiments, and centrifuge machine	© 2,592 31,978	63,084
	FISCAL YEAR	1975-1980	1981	1982															
	NUMBER OF PERSONS	21	0	0															
	1978	Equipment repair (survey)	Jan. 15 - 28, '79	3	3,319														
	1979	Evaluation (survey)	Feb. 18 - Mar. 1, '80	3	1,805	2	5	36,810	Freeze-dryer(s) and pH meter(s)	© 8,699 31,893	79,207								
	1980	(Preparation of reports on the above)				© 550						51,545							
	1980					© 104	3	2	37,283		© 3,208 10,400								
	1981	Equipment repair (survey)	Mar. 29 - Apr. 10, '72	3	© 10 1,851	2	6	24,621		© 5,818	32,300								
1982					© 154	1	-	1,308		-	1,462								
	Cumulative total				14,882			165,777		259,871	440,530								

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)																		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)																	
							Ongoing	New																					
	[NUMBER OF COUNTERPARTS ACCEPTED]	1984		July 22 - 22		ⓑ 1,429	2	10		Ⓒ 10,909 13,780	148,981																		
	<table border="1"> <tr> <th>FISCAL YEAR</th> <th>'78 - '79</th> <th>'80</th> <th>'81</th> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>11</td> <td>2</td> <td>3</td> </tr> <tr> <th>FISCAL YEAR</th> <th>'82</th> <th>'83</th> <th>'84</th> <th>'85</th> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>3</td> <td>1</td> <td>3</td> <td>3</td> </tr> </table>	FISCAL YEAR	'78 - '79	'80	'81	NUMBER OF PERSONS	11	2	3	FISCAL YEAR	'82	'83	'84	'85	NUMBER OF PERSONS	3	1	3	3	1985	Mutual consultation (survey)	Aug. 25 - Sep. 3, '85	4	12,000	6	9		Ⓒ 22,610 39,255	199,692
FISCAL YEAR	'78 - '79	'80	'81																										
NUMBER OF PERSONS	11	2	3																										
FISCAL YEAR	'82	'83	'84	'85																									
NUMBER OF PERSONS	3	1	3	3																									
		1985	Detailed design (survey)	Feb. 18 - Mar. 19, '86	3																								
		Cumulative total	1] See the preliminary survey on nursing education for details on Indonesia, Thailand, and Asia in general. Expenses were to be equally divided among the two nations involved. 2] See technical advisory survey regarding medical cooperation for details on Indonesia, the Philippines, and Asia in general. Expenses were to be equally divided among the two nations involved.																										
		1986				67,665				150,535	17,942	236,142																	
		Cumulative total				125,108				796,276	454,915	1,376,299																	

Project name	Summary	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)																				
		Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items																					
						Ongoing	New																							
Cooperating organization in Japan: International Nursing Exchange Association (Foundation)	<p>began after an R/D agreement was signed. This cooperation included the following: improving the curriculum of nursing education schools, developing training texts and materials, and improving of the method of education.</p> <p>[NUMBER OF COUNTERPARTS ACCEPTED]</p> <table border="1"> <tr> <th>FISCAL YEAR</th> <th>1979</th> <th>'80</th> <th>'81</th> <th>'82</th> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>3</td> <td>5</td> <td>2</td> <td>6</td> </tr> <tr> <th>FISCAL YEAR</th> <th>1983</th> <th>'84</th> <th>'85</th> <th></th> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>2</td> <td>2</td> <td>3</td> <td></td> </tr> </table>	FISCAL YEAR	1979	'80	'81	'82	NUMBER OF PERSONS	3	5	2	6	FISCAL YEAR	1983	'84	'85		NUMBER OF PERSONS	2	2	3		1980			⑤ 55	2	7	43,855	③ 773 18,961	63,644
		FISCAL YEAR	1979	'80	'81	'82																								
		NUMBER OF PERSONS	3	5	2	6																								
		FISCAL YEAR	1983	'84	'85																									
		NUMBER OF PERSONS	2	2	3																									
		1981	Technical advisory survey	Mar. 23 - 31, '82	5	⑤ 110 3,329	4	1	60,283	③ 487 26,112	90,321																			
		1982	(Preparation of reports on the above)			⑤ 130 ⑤ 148	4	-	59,776	③ 188 13,535	73,777																			
		1983	Evaluation (survey)	June 12 - 21, '83	5	⑤ 507 3,287	3	1	51,151	19,420	78,018																			
		1983	Equipment repair (survey)	Oct. 17 - 26, '83	4	3,653	4	-																						
		1984	(Preparation of evaluation report)			⑤ 100 ⑤ 176	1	2	48,223	③ 1,010 15,585	65,094																			
1985	Evaluation (survey)	M. Aug. 14 - 26, '85	5	4,608	3	5	31,677	31,434	67,719																					
1] See "Itinerant assistance" for details on the medical cooperation involving Indonesia, Thailand, and Asia in general. Expenses were to be equally divided among the two nations involved.																														
1986				179			9		188																					
Cumulative total				23,864			320,218	163,398	507,480																					

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)										
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)									
							Ongoing	New													
<p>National Drug and Food Quality Control Laboratory</p> <p>Type of agreement: R/D</p> <p>Cooperation term: (Initial): April 1, 1983 - March 31, 1988</p> <p>Cooperating organization in Indonesia: National Drug and Food Quality Control Laboratory</p> <p>Cooperating organizations in Japan: National Institute of Hygienic Sciences, and the National Institute of Health</p>	<p>The Government of Indonesia sought to improve facilities and increase the skill levels of the staff involved to achieve an even distribution of cheap, good-quality drugs to the Indonesian people as part of its third five-year development plan. For this reason, the government requested technological cooperation from Japan. After the request was received by Japan, a preliminary survey team was dispatched in January of 1982 to investigate the background of the request and the contents of the plan. In February of 1983, Japan sent an implementation (survey) team. Cooperation on this project began after an R/D agreement was signed. The major goals of this cooperation were: to reinforce the functions of the National Quality Control Laboratory (the central drug-testing organization), increase its capabilities for examination and judgement, and to simultaneously train technicians in local quality-control laboratories to upgrade the national levels of health and hygiene.</p> <p>[NUMBER OF COUNTERPARTS ACCEPTED]</p> <table border="1"> <tr> <td>FISCAL YEAR</td> <td>1982</td> <td>'83</td> <td>'84</td> <td>'85</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>0</td> <td>0</td> <td>4</td> <td>4</td> </tr> </table>	FISCAL YEAR	1982	'83	'84	'85	NUMBER OF PERSONS	0	0	4	4	1981	Preliminary survey	Jan. 10 - 23, '82	5	3,531					3,531
		FISCAL YEAR	1982	'83	'84	'85															
		NUMBER OF PERSONS	0	0	4	4															
		1982	Implementation (survey)	Feb. 21 - Mar. 3, '83	5	235 2,934	-	4	2,809			-	5,978								
		1983				145	-	5	4,827			93 40,169	45,234								
		1984	Mutual consultation (survey)	Dec. 3 - 12, '84	4	4,987	1	7	36,434			45,620	87,041								
		1985	Technical advisory survey	Jan. 18 - 26, '86	6	3,953	2	17	61,479			15,753 63,962	145,147								
1986				145			69,721			25,833 42,908	138,607										
	Cumulative total				15,930		175,270			234,338	425,538										

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)	
							Ongoing	New					
Vaccines (cooperation involving vaccine production technology, and vaccine quality control technology)	The Republic of Indonesia requires great amounts of vaccines for polio and measles to implement a systematic immunization program for its population of 155 million. The Indonesians felt that if these vaccines could be mass produced in Indonesia, they could produce the vaccines they need at low cost, and could possibly export vaccines to other nations. Therefore, the Republic of Indonesia requested technical cooperation, including a supply for equipment and materials, the dispatching of experts from Japan, and the acceptance of Indonesian trainees by Japan to realize the local production and quality control of vaccines.	1985	Preliminary survey	Apr. 8 - 15, '86	4	2,637			-		-	2,637	
		1986					249						2,886
		Cumulative total					2,886						
Inspection and survey of medical cooperation Survey term: March 13 - 20, 1969	(Indonesia and Viet Nam) See the section on Asia for general information.	1968	Inspection trip	Mar. 13 - 20, '69	(4)	(666)						(666)	
		Cumulative total					(666)					(666)	

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Names of major equipment items	Expenditures (1000 yen)	
							Ongoing	New			
Medical equipment repair team Survey term: December 2 - 22, 1973	(Indonesia, the Philippines, and Viet Nam) See the section on Asia for general information.	1973	Equipment repair (survey)	Dec. 2 - 22, '73	(5)	(1,888)					(1,888)
		Cumulative total					(1,888)				

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	
							Ongoing	New			
Basic survey on medical cooperation Survey term: September 18 - October 3, 1974	The Republic of Indonesia requested technical cooperation for more than a dozen new items in the area of health care and medical treatment as part of its second five-year development plan, which began in 1974. After Japan received this request, a basic survey on medical cooperation was conducted to investigate the feasibility of such cooperation, mainly in the areas of viruses and bacteria.	1974	Basic survey	Sep. 18 - Oct. 3, '74	4	2,543					2,543
		Cumulative total					2,543				
Clinical test project, involving technical advisory survey Survey term: November 12 - 30, 1974	(Indonesia, the Philippines, and Viet Nam) See the section on Asia for general information.	1974	Technical advisory survey	Nov. 12 - 30, '74	(4)	(888)					(888)
		Cumulative total					(888)				
Medical equipment repair team Survey term: March 30 - April 16, 1976	(Indonesia and the Philippines) See the section on Asia for general information.	1975	Equipment repair (survey)	Mar. 30 - Apr. 16, '76	(5)	(2,323)					(2,323)
		Cumulative total					(2,323)				

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Preliminary survey regarding medical cooperation Survey term: December 6 - 23, 1976	(Indonesia and the philippines) See the section on Asia for general information.	1976	Preliminary survey	Dec. 6 - 23, '76	(5)	(2,077)					(2,077)	

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
		1977	(Expenditures for above surveys during fiscal year 1977)								(124)	
		Cumulative total				(2,201)					(2,201)	
Medical equipment repair team Survey term: December 6 - 23, 1976	(Indonesia and the Philippines) See the section on Asia for general information.	1976	Equipment repair (survey)	Dec. 6 - 23, '76	(3)	(2,660)					(2,660)	
		Cumulative total				(2,660)					(2,660)	
Equipment repair team Survey term: January 10 - 30, 1978	(Indonesia and the Philippines) See the section on Asia for general information.	1977	Equipment repair (survey)	Jan. 10 - 30, '78	(5)	(3,969)					(3,969)	
		Cumulative total				(3,969)					(3,969)	

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Equipment control assistance team Survey term: August 16 - 31, 1977	(Indonesia and the Philippines) See the section on Asia for general information.	1977	Equipment repair (survey)	Aug. 16 - 31, '77	(4)	(1,786)					(1,786)	
		Cumulative total					(1,786)					(1,786)

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Medical cooperation specialist team	(Indonesia, Malaysia, and Thailand) See the section on Asia for general information.	1977						(6)	(1,837)		Ⓒ (5)	(1,842)
		Cumulative total								(1,837)		(5)
Preliminary survey on public health and hygiene areas Survey term: July 12 - 22, '77	(Indonesia and Thailand) See the section on Asia for general information.	1977	Preliminary survey	July 12 - 22, '77	(5)	(1,817)						(1,817)
		Cumulative total					(1,817)					
Basic survey on infectious diseases	The purpose of this survey was to understand the current conditions and trends of infectious diseases in Indonesia, and to determine the technical cooperation needed, as well as to determine the most effective projects to be implemented in the areas of health care and medical treatment.	1982	Basic survey	July 16 - 25, '82	2	26,413			-			} 26,413
		1982	Basic survey	Aug. 2 - Sep. 5, '82	7							
		Cumulative total					26,413					

Health and Medical Cooperation Programme (single)

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Special case	Mission related to injuries to on-site specialists in Indonesia	1972						1	495		495	
		Cumulative total								495		495
Training of nurses	Development of audio-visual software for family planning	1977						2	2,148		2,148	
		Cumulative total								2,148		2,148
Technology of artificial dialysis		1981						1	1,217	© 2,901	4,118	
		Cumulative total							1,217	2,901	4,118	

Health and Medical Cooperation Programme (professors)

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Cardiac surgery	(Indonesia and the Philippines) See the section on Asia for general information.	1975						(3)	(1,115)		Ⓒ (126)	(1,241)
		Cumulative total								(1,115)		(126)
Thoracic surgery		1977						1	713		Ⓒ 238	951
		Cumulative total								713		238
Pathology		1978						1	483			483
		Cumulative total								483		
Mother-and-child dietetics		1979						1	569			569
		Cumulative total								569		
Symposium on preventive vaccination		1979						1	613			613
		1980							966		Ⓒ 18	984
		Cumulative total								1,579		18

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Pathology		1984					-	2	881		881	
		Cumulative total							881		881	
Radiological science		1984					-	1	441		441	
		Cumulative total							441		441	
Vaccines		1975					-	2	1,289		1,289	
		Cumulative total							1,289		1,289	

Health and Medical Cooperation Program (special equipment)

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Persahabatan Hospital		1976								Bronchio-fiber-scope	2,060	2,060
		Cumulative total									2,060	2,060
Medical department of the University of Indonesia		1980									20,569	20,569
		Cumulative total									20,569	20,569

(NATION) Indonesia

(Unit: 1000 yen)

Name of Programme	Fiscal year	Trainees	Survey teams	Experts	Volunteers	Equipment supply	Other	Total
Other	Until 1983		16,936	198,341		457,684		672,961
	Cumulative total		16,936	198,341		457,684		672,961
(Total for Health and Medical Cooperation Programme)			(265,546)	(1,709,964)		(1,897,685)		(3,873,195)

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)																		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)																			
							Ongoing	New																						
	[NUMBER OF COUNTERPARTS ACCEPTED]																													
	<table border="1"> <tr> <td>FISCAL YEAR</td> <td>1969 - '78</td> <td>'79</td> <td>'80</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>5</td> <td>2</td> <td>4</td> </tr> <tr> <td>FISCAL YEAR</td> <td>1981</td> <td>'82</td> <td>'83</td> <td>'84</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>1</td> <td>3</td> <td>0</td> <td>0</td> </tr> </table>	FISCAL YEAR	1969 - '78	'79	'80	NUMBER OF PERSONS	5	2	4	FISCAL YEAR	1981	'82	'83	'84	NUMBER OF PERSONS	1	3	0	0	1976	Mutual consultation (survey)	Aug. 25 - Sept. 8, '76	3	2,038		6	5,007	Printer	51,509	58,554
FISCAL YEAR	1969 - '78	'79	'80																											
NUMBER OF PERSONS	5	2	4																											
FISCAL YEAR	1981	'82	'83	'84																										
NUMBER OF PERSONS	1	3	0	0																										
		1977					1	10	18,158	Mini-studio and movie films	© 3,246 71,267	92,671																		
		1978					2	3	12,813	35 mm camera	© 2,549 61,657	77,019																		
		1979	Technical advisory survey	Mar. 12 - 23, '80	4	2,630	2	1	19,955	Video cassettes, color video cameras	© 1,676 86,047	110,308																		
		1980	(Preparation of reports on the above)			① 196	1	4	運 489 10,526		© 2,354 95,132	108,697																		
		1981	Technical advisory survey	May 28 - June 4, '81	4	2,195	2	7	26,472		© 2,489 136,716	167,872																		
		1982	Technical advisory survey	Oct. 25 - Nov. 20, '82	5	② 976 2,862	1	4	27,608		© 1,188 123,701	156,335																		
		1983	Technical advisory survey	Oct. 12 - 20, '83	2	1,001	1	2	27,164		112,792	140,957																		

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)			
							Ongoing	New						
		1984	(Preparation of reports on the above)				20	1	2	31,688		700 62,491	97,442	
		1984	Evaluation (survey)	Feb. 4 - 16, '85	4	2,543								
		Cumulative total				14,461				179,880		966,111	1,160,452	
Family planning	The Government of Indonesia requested that Japan provide technical cooperation and grant aid for the "Family Planning Central Training Center," that trains and educates staff members involved in family-planning programs, and for the "Family Planning Medical Center" where research and development is conducted on contraceptive methods to determine their safety and possible adverse side effects. A preliminary survey team was dispatched in February of 1986.	1985	Preliminary survey	Feb. 23 - Mar. 1, '86	4	2,279	-	-		953			3,232	
		1986					197							197
		Cumulative total					2,476				953			3,429

(NATION) Indonesia

(Unit: 1000 yen)

Name of project or item	Fiscal year	Trainees	Survey team	Technical advisers	Cooperating volunteers	Equipment grant	Other	Total
(Total of Population and Family Planning Cooperation Programme)			(16,937)	(180,833)		(966,111)		(1,163,881)

Agriculture and Forestry Cooperation Programme

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Technical Cooperation in the Field of Agriculture in Indonesia (Western Java) Type of agreement: Agreement Date signed: May 29, 1968 Cooperation term: May, 1968 - May, 1971 Type of agreement: Agreement (extension) Date signed: May, 1971 Cooperation term: May, 1971 - May, 1974	According to the request issued from the Government of Indonesia for technical cooperation for promoting its plan for increased food production (BIMAS plan: to achieve self-sufficiency in food production and eliminate rice imports), Japan dispatched a nine-member survey team in August of 1967 to conduct a field survey related to cooperation with the agricultural priorities and measures of the Government of Indonesia. Based on the survey results, an agreement for technical cooperation for a three-year period was concluded on May 29, 1968. Japan dispatched five experts in September of 1968, and provided the necessary equipment and materials from fiscal year 1968 to fiscal year 1971 according to the three following plans: a. Plan for producing, inspecting, and popularizing superior-quality rice seeds at the Muara test farm in Bogor. b. Agricultural mechanization training plan for the agricultural equipment divisions of the Pasar Minggu suburb of Jakarta, and at the Sukamandi national farm. c. Assistance and advice on the rice seed production plan, farmers' union	1967	Field survey	Aug. 20 - Sep. 26, '67	9 f(1)	6,192	-	-	-	-	6,192	
		1968	Technical advisory survey	Feb. 13 - Mar. 5, '69	5	2,837	-	5	13,741		91,246	107,824
		1969				ⓑ 343	5	-	18,502		12,159	31,004
		1970	Detailed design survey	Oct. 28 - Dec. 26, '70	10	22,071	5	-	20,173		12,741	54,985
		1971	(Reports on the above)			Ⓓ 858						54,281
		1971	Technical advisory survey	May 30 - June 30, '71	6	ⓑ 303 3,287	5	4	28,866		20,967	
		1972	Technical advisory survey	Mar. 11 - 31, '73	5	ⓑ 126 2,569	7	3	41,113		31,877	75,685
		1973	(Reports on the above)			Ⓓ 149						78,030
		1973	Technical advisory survey	Nov. 25 - Dec. 8, '73 Jan. 30 - Feb. 28, 1974	5	ⓑ 97 2,983	10	-	51,517		23,284	

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	
							Ongoing	New			
	<p>selected farmers and officials to popularize these techniques in the seven major rice-growing areas in western Java</p> <p>c. The plan for training in theoretical and practical aspects of agricultural mechanization, seed-production techniques, and rice-growing techniques for technical staff members working with the government in western Java, as well as for staff members working on popularization, and some selected farmers</p> <p>The survey team dispatched in December of 1973 to consult on these plans determined that after-care cooperation should continue for two years to establish an Indonesian organization to assume control of this project and transfer the agricultural production system to the farmers' union after the agreement term ended in May of 1974.</p>										
<p>Technical cooperation for Tadjum area agricultural development</p> <p>Type of agreement: Agreement</p> <p>Date signed: February, 1971</p> <p>Cooperation term: February, 1971 - February, 1974</p>	<p>Technical cooperation for this project began after an agreement was concluded in February of 1971. Six experts were dispatched in September. This agreement was extended in February of 1974. The technical cooperation achieved its intended goals, and ended in February of 1976. The purpose of this project</p>	1969	Preliminary survey	Oct. 4 - Nov. 7, '69	5	11,011					11,011
		1969	Detailed design survey	Feb. 26 - Mar. 28, '70							

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		
							Ongoing	New				
Type of agreement: Agreement (extension) Cooperation term: February, 1974 - February, 1976	was to develop local agriculture by implementing an irrigation project and establishing a 200 ha pilot farm for rice crop development in the approximate center of the paddy field irrigation project area of about 3200 ha. This project was implemented in the Tajun area, Banyumas region, and central Java province as part of Indonesia's five-year plan, which was partially funded by a loan from the Asian Development Bank. This technical cooperation involved the following: ① Design and construction of irrigation and drainage channels and farm roads ② Technical assistance on effective water control for officials and farmers in the project area ③ Improved agricultural techniques and the dissemination of advanced multiple-cropping technology ④ Training officials and key farmers involved with the project in the pilot farm area ⑤ Assistance for farmers' union activities in the pilot farm area After-care cooperation was provided in fiscal year 1982 with a grant for equipment to improve agricultural production in the above area. Technical advisers were also dispatched for a short period.	1970	(Work in Japan related to the above)			5,708					5,708	
		1971	(Reports on the above)			819						68,989
		1971	Mutual consultation (survey)	June 24 - July 10, '71	4	③ 331 1,452	-	6	15,035		51,352	
		1972	Technical advisory survey	Dec. 3 - 13, '72	5	③ 161 2,527	6	-	24,777		30,997	58,462
		1973	Evaluation (survey)	July 16 - Aug. 8, '73	5	③ 782 3,408	6	-	23,497			27,687
		1974				③ 86	4	2	16,442		31,562	48,090
		1975	Evaluation (survey)	Oct. 14 - 30, '75	4	③ 136 5,138	4	1	17,042		4,610	26,926
		1976									1,684	1,684
		1981	After-care (survey)	Aug. 23 - Sep. 1, '81	3	1,823						1,823
		1982	(Preparation of reports on the above)				③ 197	0	2	46,50	Parts for agricultural machines	

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)		
							Ongoing	New					
		Cumulative total				33,579			101,443		130,700	265,722	
<p>Strengthening of Legumes in relation to Cropping System Research Project Type of agreement: Agreement Date signed: October 23, 1970 Cooperation terms: (Initial): October 23, 1970 - October 22, 1975 (Extension): October 23, 1975 - October 22, 1978 (Exchange of official documents) (Extension): October 23, 1978 - October 22, 1983 (R/D) (F/U): October 23, 1983 - October 22, 1985</p>	<p>Based on the Agreement concluded on October 23, 1970, joint research on plant damage and physiological disorders was conducted at the Indonesian Central Research Institute for Agriculture. Before the five-year cooperation term ended, Japan dispatched an evaluation survey team in June of 1975. The progress of the project was checked and evaluated by Japan and Indonesia, and a study was made of how this project should be handled in future. The term of cooperation was extended for three more years, and the extended term of cooperation was determined in October of 1975. This project consisted of three main themes:</p> <ol style="list-style-type: none"> 1. Ecological control of major damage due to disease 2. Predicting major damage due to disease, and preventing the transmission of viruses by insects, and 3. Research on physiological disorders and the physiology of major due to disease <p>After a discussion was held between the leader of the</p>	1969	Preliminary survey	Sep. 16 - Oct. 10, '69	3	5,268						5,268	
		1969	Field survey	Feb. 26 - Mar. 25, '70	6								
		1970				Ⓐ 224							37,473
		1970				Ⓑ 357		3	3,700			33,192	
		1971				Ⓒ 76		3	4	23,707		30,948	54,731
		1972	Technical advisory survey	Jan. 29 - Feb. 17, '73	5	Ⓓ 365 2,940		7	1	24,614		29,242	57,161
		1973				Ⓔ 379		5	4	33,095			33,474
		1974	Technical advisory survey	Nov. 13 - 27, '74	5	Ⓕ 114 2,733		6	4	30,539		Ⓒ 41 60,511	93,938
		1975	Evaluation (survey)	June 8 - 21, '75	7	Ⓖ 301 3,685		4	8	44,172		Ⓒ 1,753 2,294	52,205
		1976											0
1977	Technical advisory survey	Nov. 17 - Dec. 7, '77	6	Ⓖ 218 4,620		7	3	60,721	Equipment related to plant pathology	Ⓒ 612 49,695	115,866		

Project name	Summary	Fiscal year	Survey teams				Experts		supply		Grand total of expenditures (1000 yen)																					
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items																						
							Ongoing	New																								
	[NUMBER OF COUNTERPARTS ACCEPTED]																															
	<table border="1"> <tr> <th>FISCAL YEAR</th> <th>1978</th> <th>'79</th> <th>'80</th> <th>'81</th> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>4</td> <td>8</td> <td>6</td> <td>5</td> </tr> <tr> <th>FISCAL YEAR</th> <th>1982</th> <th>'83</th> <th>'84</th> <th>'85</th> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>7</td> <td>4</td> <td>4</td> <td>3</td> </tr> </table>	FISCAL YEAR	1978	'79	'80	'81	NUMBER OF PERSONS	4	8	6	5	FISCAL YEAR	1982	'83	'84	'85	NUMBER OF PERSONS	7	4	4	3	1984	Itinerant assistance	Mar. 21 - 30, '85	3	3,874	5	6	60,404	Seedling thinning machine and freeze dryer, etc.	© 3,444 21,624	89,346
FISCAL YEAR	1978	'79	'80	'81																												
NUMBER OF PERSONS	4	8	6	5																												
FISCAL YEAR	1982	'83	'84	'85																												
NUMBER OF PERSONS	7	4	4	3																												
		1985	Itinerant assistance	Sep. 5 - 16, '85	4	9,171	7	4	41,917	Spare parts for farming equipment, AV equipment, etc.	© 1,384 13,600	66,072																				
		1985	Discussion of work plan	Jan. 22 - Feb. 2, '86	3																											
			<p>1] Refer to the research on Indonesian agriculture and the research assistance for horticulture in Bangladesh, and Asia for general information. Expenses were shared equally by both nations.</p> <p>2] Refer to the research on Indonesian agriculture, agricultural development and the maintenance and control of agricultural development in Cagayan in the Philippines and Asia for general information. Expenses were shared equally by both nations.</p>																													
		1986	Action	June 1					15		1,002	1,017																				
		Cumulative total				58,807			831,054		713,499	1,603,360																				

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
<p>The Lampung Agricultural Development Project</p> <p>Type of agreement: Agreement</p> <p>Date signed: November 14, 1972</p> <p>Cooperation terms: (Initial): November 14, 1972 - November 13, 1977</p> <p>(Extension): November 14, 1977 - November 13, 1980</p> <p>(Follow-up): November 14, 1980 - November 13, 1982</p>	<p>After the five-year technical project (which began on November 14, 1972) was completed according to the agreement, the agreement was extended for another three years to continue technical cooperation. Cooperation was initially provided mainly with the Teginenen Center, but the area of cooperation was expanded to include all of Lampung Province after the agreement was extended. In particular, propagation activities with improved agricultural techniques were conducted at the 15 local propagation centers established in fiscal year 1976 by technical cooperation provided with grant aid. As the central core of the project, superior-quality seedlings were produced and distributed damage due to disease was effectively controlled, and insect pests were controlled mainly through the agricultural propagation centers. The three following sub-projects were implemented during the above project:</p> <p>1. Agricultural propagation center: This center was involved in the collecting and analyzing of data, providing information, technical assistance and advice, field testing and demonstrating modern agricultural techniques, training propagators and</p>	1971	Basic survey	Aug. 22 - Sep. 21, '71	10	9,569					9,569	
		1972					Ⓐ 815					
		1972	Detailed design (survey)	Sep. 1 - Oct. 15, '72	9	Ⓐ 693 21,401	2	1	657		29,336	52,902
		1973					Ⓐ 379	6	7	28,165	85	28,629
		1974	Technical advisory survey	Feb. 12 - Mar. 4, '75	6	Ⓐ 409 3,433	13	5	53,585		Ⓒ 1,608 53,088	112,123
		1975					Ⓐ 265					
		1975	Technical advisory survey	Mar. 4 - 20, '76	4	Ⓐ 296 2,895	10	3	75,793		65,555	144,804
		1976					Ⓐ 447	7	2	80,508	Ⓒ 736 104,298	186,246
		1976					Ⓐ 257					
		1977	Evaluation (survey)	June 7 - 30, '77	6	Ⓐ 219 5,330	5	1	42,872		164,408	212,829
		1978					Ⓐ 300					
		1978	Technical advisory survey	Oct. 19 - Nov. 7, '78	5	4,065	6	5	82,755	Agricultural machines, vehicles, audio-visual equipment	Ⓒ 633 152,628	240,381
		1979	Evaluation (survey)	Dec. 5 - 19, '79	3	Ⓐ 243 1,833	7	1	75,896	Agricultural machines and vehicles	Ⓒ 188 83,836	161,996

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)		
							Ongoing	New					
	<p>"Key Farmers," and producing and distributing superior-quality seeds.</p> <p>2. Development of lowland agriculture: Large demonstration farms (of 100 ha) and small demonstration farms (of about 5 ha) were established at 40 locations throughout lowland agricultural areas in ten countries of central Lampung Province as the basis for developing lowland farming (mainly rice crops).</p> <p>3. Development of highland agriculture: Agriculture involving seasonal crops, corn, beans, and cassava was developed in the highland farming areas in central and southern Lampung Province.</p> <p>Before the agreement ended in November of 1980, Japan dispatched an evaluation team. The resulting evaluation determined that follow-up cooperation would be provided for two more years from November of 1980. In fiscal year 1985, Japan dispatched an after-care survey team to study the feasibility of dispatching short-term experts and a supply for some equipment, as well to understand the situation of development after such cooperation was completed.</p>	1980	Evaluation (survey)	June 23 - July 12, '80	5	5,197	8	1	60,156	Parts for agricultural equipment, and equipment for testing areas	© 1,536 33,768	100,657	
		1981					3	1	24,066		322 13,054	37,442	
		1982				Ⓓ 28	3	-	22,558	Spare parts	© 38 12,723	35,347	
		1985	After-care (survey)	Oct. 26 - Nov. 5, '85	5	3,643	-	-	-	-	-	3,643	
		1986	After-care (survey)									30,900	30,900
		Cumulative total					61,717			547,011		748,740	1,357,468

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)	
							Ongoing	New					
	<p>As a result, the following technical cooperation was provided, mainly for south Sulawesi according to the R/D agreement for a year and a half.</p> <p>1. Preparation for establishing a sericultural center and related sub-centers</p> <p>2. Preparation for establishing standard sericultural techniques</p> <p>3. Production and distribution of high-yield silkworm eggs</p> <p>4. Training of Indonesian technicians</p> <p>After the agreement was signed on February 28, 1978, the sericultural development center building was constructed, and fields were improved. This was completed in February of 1980. Technical training in such areas as improving the basic techniques for raising silkworms and growing mulberry trees, and the technical training of counterparts, was provided. Techniques considered suitable for Indonesia, (developed at the main center) were tested and confirmed at each of the sub-centers, and sericultural farmers in farmers' groups were assisted at five locations.</p> <p>After the evaluation team was dispatched in September of 1982, the cooperation term was extended for two more</p>	1977				Ⓓ 442							
		1977				Ⓑ 144	5	2	54,951	Equipment for cultivating mulberry plants, and sericultural equipment	Ⓒ 272 165,195		
		1977	Technical advisory survey	Mar 7 - 22, '78	(4)	1 (1,402)							
		1978				Ⓓ (224)							
		Cumulative total	Technical advisory survey	Nov. 14 - 26, '78	(3)	(1,127)	4	8	127,464	Equipment for raising silkworms, and equipment for silkworm egg production	Ⓒ 3,548 40,876	(1,351) 171,888	
		1978	Technical advisory survey	Nov. 14 - 26, '78	(3)	(1,127)							

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
			1] See the technical advisory survey for the cooperation projects for sericultural development in Indonesia, Thailand, and Asia for general information. Expenses were shared equally by both nations. 2] See the technical advisory survey for the cooperation projects for sericultural development in Indonesia, Thailand, and Asia for general information. Expenses were shared equally by both nations.									
		Cumulative total				84,221			779,682		632,267	1,496,170

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
	<p>Development Basic Plan</p> <p>③ Determining agricultural development plans for each sector according to the above basic plan</p> <p>④ Determining work plans for agricultural development projects in two designated regions (Enrekang and Jeneponto) according to the plans for each sector, as well as to the basic plan above.</p> <p>⑤ Training persons in charge of preparing the plans</p> <p>After an investigation was made by the evaluation team dispatched in March of 1979, it was determined that the project, which emphasized the preparation of work plans for urgent agricultural development in government-specified sectors that had future potential, would be continued.</p> <p>The goals achieved before the project ended on June 23, 1982, included: ① the development of forestry and improvement of grassy fields in the Enrekang region, plus technical development suited to this area through so-called "pilot testing" to improve citrus plants in the Jeneponto region, ② F/S in the above areas, ③ providing the methodology for the above tasks. The technology needed for planning decision-making was transferred to the counterparts.</p>	1979				⑩ 10,767						
		1979	Detailed design (survey)	July 18 - Sep. 5, '79	7	⑧ 322 16,200	5	6	74,480	Forestation equipment and agricultural equipment	⑥ 1,891 5,435	109,095
		1980	Technical advisory survey	June 25 - July 11, '80	5	4,048	7	8	104,823	Field experiment equipment and machines for pilot testing	⑥ 535 74,605	184,011
		1981	Evaluation (survey)	June 15 - 28, '81	5	3,769	6	6	76,904	Meteorological instruments and radio equipment	⑥ 172 2,945	83,790
		1982				⑤ 146	6	1	19,625		-	19,771
		1986				3,115						3,115
		Cumulative total				58,637			449,718		168,138	676,493

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)																			
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)																				
							Ongoing	New																							
	<p>[NUMBER OF COUNTERPARTS ACCEPTED]</p> <table border="1"> <tr> <td>FISCAL YEAR</td> <td>'76</td> <td>'77</td> <td>'78</td> <td>'79</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td></td> <td>15</td> <td></td> <td>1</td> </tr> <tr> <td>FISCAL YEAR</td> <td>'80</td> <td>'81</td> <td>'82</td> <td></td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>5</td> <td>4</td> <td>1</td> <td></td> </tr> </table>	FISCAL YEAR	'76	'77	'78	'79	NUMBER OF PERSONS		15		1	FISCAL YEAR	'80	'81	'82		NUMBER OF PERSONS	5	4	1											
FISCAL YEAR	'76	'77	'78	'79																											
NUMBER OF PERSONS		15		1																											
FISCAL YEAR	'80	'81	'82																												
NUMBER OF PERSONS	5	4	1																												
<p>The Project on the Animal Health Improvement Programme</p> <p>Type of agreement: R/D</p> <p>Date signed: July 7, 1977</p> <p>Cooperation terms: (Initial): July 7, 1977 - July 6, 1980</p> <p>(Extension): July 7, 1980 - July 6, 1982</p> <p>(Follow-up): July 7, 1982 - July 6, 1984</p>	<p>Promoting the livestock industry of Indonesia became national policy to increase the demand for animal protein, to secure livestock resources, and to increase employment opportunities for farmers. Thus, improved health care for livestock became essential, and Indonesia requested technical cooperation from Japan. After Japan received this request, it conducted a preliminary survey, which included a work plan survey, in June of 1976, by considering the results of the survey conducted on livestock health care 1973 by Japan's Ministry of Agriculture and Forestry. An implementation (survey) team was dispatched in June of 1977, then an R/D agreement was signed.</p> <p>The purpose of this project was to carry out the following activities at the livestock health care</p>	1976	Preliminary survey	June 22 - July 16, '76	4	4,050		2	4,353		© 3,976	12,379																			
		1977	Implementation (survey)	June 21 - July 13, '77	5	Ⓓ 201 9,107	2		30,920	Vehicles, equipment, and materials for testing and research	© 1,147 46,653		90,007																		
		1977	Mutual consultation (survey)	Feb. 21 - Mar. 8, '78	3	1,979																									
		1978					Ⓓ 368	3	3	41,210	Vehicles, testing apparatus, and medicinal drugs	© 730 55,887																			
		1978	Technical advisory survey	Nov. 23 - Dec. 12, '78	(4)	1 (1,653)							(1,653) 98,195																		

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)		
							Ongoing	New					
	<p>research centers in Medan and Tanjungkarang.</p> <p>① Investigation, diagnosis, testing, and prevention of contagious livestock diseases, and,</p> <p>② Trial production of biological drugs for veterinary use.</p> <p>The survey conducted by the evaluation team dispatched in February of 1980 revealed reasons why the project at the Tanjungkarang livestock health care center was delayed. Consequently, one long-term expert was assigned to the Tanjungkarang Center at the beginning of fiscal year 1980.</p> <p>After an evaluation was made in December of 1981, the need for two additional years of follow-up cooperation was noted. Two experts were dispatched to Medan, and one expert was dispatched to Tanjungkarang to support and complete the application of technology and open-air (outdoors) investigation, based on the basic technology used in the testing laboratories where the transfer of technology was completed.</p> <p>In 1984, disease diagnosis manuals for the fields of pathology, micro-organisms, and viruses were improved and completed to enable the smooth transfer of this</p>	1979	Evaluation (survey)	Feb. 27 - Mar. 16, '80	4	ⓑ 70 2,968	6	3	67,565	Testing apparatus and chemicals	Ⓒ 2,383 42,945	115,935	
		1980	(Preparation of reports on the above)				Ⓓ 678	5	6	65,050	Equipment for testing laboratory, chemicals, and vehicles	Ⓒ 1,967 64,571	(1,834) 132,266
		1980	Mutual consultation (survey)	Nov. 21 - Dec. 13, '80		2) (1,834)							
		1981	Preparation of reports on the above				(69)	6	4	69,236	Books and fixtures for testing laboratory	Ⓒ 2,336 53,589	(69) 129,144
		1981	Evaluation (survey)	Nov. 29 - Dec. 17, '81	5	3,983							
		1982	(Preparation of reports on the above)				ⓑ 325 Ⓓ 1,712	7	4	62,100	Fixtures for testing rooms, chemicals, and culture media	Ⓒ 1,870 19,835	85,842
		1976					Ⓒ 284						

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)																			
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)																		
							Ongoing	New																						
	<p>project to the Indonesians. Then, the technical cooperation for this project was completed.</p> <p>[NUMBER OF COUNTERPARTS ACCEPTED]</p> <table border="1"> <thead> <tr> <th>FISCAL YEAR</th> <th>'77-'78</th> <th>'79</th> <th>'80</th> </tr> </thead> <tbody> <tr> <td>NUMBER OF PERSONS</td> <td>6</td> <td>5</td> <td>2</td> </tr> <tr> <th>FISCAL YEAR</th> <th>'81</th> <th>'82</th> <th>'83</th> <th>'84</th> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>2</td> <td>2</td> <td>3</td> <td>2</td> </tr> </tbody> </table>	FISCAL YEAR	'77-'78	'79	'80	NUMBER OF PERSONS	6	5	2	FISCAL YEAR	'81	'82	'83	'84	NUMBER OF PERSONS	2	2	3	2	1983	Technical advisory survey	July 17 - Aug. 1, '83	3	4,054	4	3	60,356	Equipment for outdoor activities for preventing foot-and-mouth (hoof-and-mouth) disease	© 2,717 43,795	110,922
		FISCAL YEAR	'77-'78	'79	'80																									
		NUMBER OF PERSONS	6	5	2																									
		FISCAL YEAR	'81	'82	'83	'84																								
		NUMBER OF PERSONS	2	2	3	2																								
		1983	Technical advisory survey	Dec. 4 - 10, '83	2																									
1984	(Preparation of reports on the above)				© 652	3	3	11,836	Vehicles (motorcycles)	© 292 11,909	24,689																			
1] See the technical advisory survey for the Project on the Animal Health Improvement Programme in Indonesia, Thailand, and Asia for general information. Expenses were shared equally by both nations.																														
		Cumulative total				33,703			412,626		356,606	802,935																		
"The Agricultural Products Processing Pilot Plant Project" at Bogor University of Agriculture Type of agreement: R/D Date signed: October 14, 1977	The Bogor University of Agriculture in the Republic of Indonesia is the country's top agricultural university, although the agricultural product processing division of the Agricultural Engineering Department lacked the needed facilities and	1975	Preliminary survey	Mar. 28 - Apr. 11, '76	5	3,211						3,211																		
		1976					© 384					384																		

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)																				
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)																			
							Ongoing	New																							
	[NUMBER OF COUNTERPARTS ACCEPTED]					27,254			347,204		429,656	804,114																			
	<table border="1"> <tr> <td>FISCAL YEAR</td> <td>'78</td> <td>'79</td> <td>'80</td> <td>'81</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>3</td> <td>3</td> <td>4</td> <td>1</td> </tr> <tr> <td>FISCAL YEAR</td> <td>'82</td> <td>'83</td> <td>'84</td> <td></td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>5</td> <td>2</td> <td>2</td> <td></td> </tr> </table>	FISCAL YEAR	'78	'79	'80	'81	NUMBER OF PERSONS	3	3	4	1	FISCAL YEAR	'82	'83	'84		NUMBER OF PERSONS	5	2	2		Cumulative total									
FISCAL YEAR	'78	'79	'80	'81																											
NUMBER OF PERSONS	3	3	4	1																											
FISCAL YEAR	'82	'83	'84																												
NUMBER OF PERSONS	5	2	2																												
<p>The Mountain Logging Practice Project in Java</p> <p>Type of agreement: R/D</p> <p>Date signed: December 3, 1977</p> <p>Cooperation terms: (Initial): April 20, 1978 - April 19, 1981</p> <p>(Extension): April 20, 1981 - June 19, 1982</p>	<p>The Government of Indonesia requested technical cooperation from Japan for logging Merukushi pines in the mountainous areas of the national forest (administered by Purunpurukutani and the National Forest Public Corporation) in central Java. These trees would provide the raw material for the paper mill to be built in the Central Java Province in the Republic of Indonesia. After receiving this request, Japan conducted a forestry resources survey (development survey) in 1976 and 1977. After receiving the survey results, the National Forest Public Corporation requested that Japan carry out a technical cooperation project to train the technicians needed to oversee the actual logging operation. The major aspects of this project included instruction on the technology used in</p>	1977	Preliminary survey	June 28 - July 17, '77	5	5,710					© 764	6,721																			
		1977	Mutual consultation (survey)	Dec. 7 - 10, '77	4	247																									
		1978	Detailed design (survey)	May 7 - June 15, '78	6	20,989		8	83,443	Set of logging machines, tractors	© 1,728 81,812	187,972																			
		1979					ⓑ 165	8	2	52,359	Equipment for practicing logging operations using cables, and tractors	© 3,834 103,047	159,405																		

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)		
							Ongoing	New					
	1985, Japan sent a survey team and provided a supply for the necessary equipment. [NUMBER OF COUNTERPARTS ACCEPTED]	1981	Preparation of evaluation report(s)				① 955					162,946	
		1981	Evaluation (survey)	Jan. 20 - Feb. 3, '82	5	② 157,4018	9	3	60,651	Logging machines, vehicles and logging equipment, equipment for land surveys and mapping	③ 1,144,96,021		
		1982	(Preparation of reports on the above)			④ 1,666	8	-	16,686	Attachments and fittings for logging machines, and spare parts	⑤ 495,7,793		26,640
		1985	After-care (survey)	June 9 - 21, '85	5	3,801	-	-	195	Tractors, chain saws, and spare parts	10,442		14,438
		1986							7,918		⑥ 199,2,002		10,119

FISCAL YEAR	1977	1978	1979
NUMBER OF PERSONS	6	5	5
FISCAL YEAR	1980	1981	1982
NUMBER OF PERSONS	6	4	1

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)		
							Ongoing	New					
		Cumulative total				48,555					406,860		
<p>The Mariculture Research and Development Project</p> <p>Type of agreement: R/D</p> <p>Date signed: August 31, 1978</p> <p>Cooperation terms:</p> <p>(Initial): August 31, 1978 - March 31, 1982</p> <p>(Extension): April 1, 1982 - March 31, 1984</p> <p>(F/U): April 1, 1984 - March 31, 1986</p>	<p>The Government of Indonesia intended to develop mariculture using previously non-utilized Indonesian marine products to promote the consumption of animal protein and to stabilize incomes for fishermen in small-scale fishing operations. Therefore, Indonesia requested the necessary technical cooperation from Japan. In response to this request, Japan dispatched a contact team in March of 1975 to conduct a survey on the development of fisheries for shellfish, based on the agreement signed between Japan and Indonesia. Another preliminary survey team was dispatched in February of 1976 according to Indonesia's request for cooperation for developing fisheries for shellfish and other kinds of fish. Since the terms of both surveys were short, and since they were conducted during the Indonesian rainy season, they were not satisfactorily completed. Consequently, Japan sent two experts in 1977 to study how to supplement the results of</p>	1974	Contact mission	Mar. 28 - Apr. 17, '75	* 2	
		1975	Preliminary survey	Feb. 26 - Mar. 26, '76	4	Ⓕ 304 3,848							5,164
		1975				Ⓓ 1,012							0
		1976											0
		1977					Ⓔ 47	2	7,248		Ⓒ 1,376		8,671
		1978	Mutual consultation (survey)	Aug. 15 - Sept. 4, '78	5	3,733							14,376
		1978					380	2	5,203	Equipment for culturing and environmental surveys	Ⓒ 331 4,729		
		1979	Technical advisory survey	Nov. 25 - Dec. 24, '79	3	1,994	2	3	49,025	Equipment for culturing and rearing, and boats	Ⓒ 1,012 60,438		112,469

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)			
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)		
							Ongoing	New						
	at this center. As a result of the investigation made by the evaluation team dispatched in November of 1980, technical cooperation for this project was extended another two years. In addition, the transfer of technology used for fish surveys remained a topic of future discussion (as reported in the 1983 evaluation). Consequently, follow-up cooperation was determined to be extended another two years. In fiscal year 1985, marine culture technology was established for giant perch and sea bass, and the basic data on the preparation of manuals was compiled.	1984	(Preparation of reports on the above)					2	3	62,522	Water tanks, parts for boat engines, etc.	© 1,864 30,523	98,293	
		1984	Mutual consultation (survey)	July 2 - 17, '84	3									
		1985	Technical advisory survey	Jan. 8 - 22, '86	4	4,179	3	3	43,669			Spare parts for fishing boats, equipment and materials for breeding tests, etc.	© 1,811 34,248	83,907
		1986				2,822			4,416		8,998		16,236	
		Cumulative total				32,583			439,652		331,951		804,186	

[NUMBER OF COUNTERPARTS ACCEPTED]					
FISCAL YEAR	'77	'78	'79	'80	'81
NUMBER OF PERSONS	5		1	3	5
FISCAL YEAR	'82	'83	'84	'85	
NUMBER OF PERSONS	2	0	2	3	

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	
							Ongoing	New			
The Middle Level Agricultural Technician Training Project Type of agreement: R/D Date signed: March 29, 1979	The purpose of this project was to cooperate in a training project for agricultural and forestry technicians, run by the agricultural education propagation training agency of the Indonesian Ministry of Agriculture. This agency was	1978	Implementation (survey)	Nov. 30 - Dec. 19, '78	5	3,491					4,899
		1978	Mutual consultation (survey)	Feb. 22 - Mar. 31, '79	3	1,408					

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)																		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)																			
							Ongoing	New																						
	machinery): ①preparation of training plans, assistance and advice relating to training texts and materials, ②technical assistance and advice for counterparts, ③technical training of agricultural propagators through counterparts, ④conducting tests on actual use, and surveys necessary for propagation and training. To carry out full-scale hands-on activities (including field laboratory tests) and on-campus tests and on-the-job, on-site training that began in fiscal year 1984, the term of financial cooperation was extended for two more years from fiscal year 1984 according to the R/D agreement. Follow-up cooperation for an additional two years was planned in fiscal year 1986.	1982	Technical advisory survey	July 2 - 17, '82	4	14,713	9	3	115,080	Testing equipment, training equipment, survey and analysis equipment, and vehicles	③ 500 121,466	251,759																		
		1983	Evaluation (survey)	Sep. 17 - Oct. 7, '83	5	8,231	7	5	120,053	Parts for agricultural machines, testing equipment, and chemicals	③ 128 74,372	202,784																		
		1983	Evaluation (survey)	Feb. 13 - 23, '84	3																									
		1984	(Preparation of reports on the above)				2,623	5	4	150,519	Mist blowers, tractors, etc.		220,493																	
		1984	Technical advisory survey	Jan. 23 - Feb. 2, '85	2																									
[NUMBER OF COUNTERPARTS ACCEPTED]		<table border="1"> <thead> <tr> <th>FISCAL YEAR</th> <th>'79</th> <th>'80</th> <th>'81</th> <th>'82</th> </tr> </thead> <tbody> <tr> <td>NUMBER OF PERSONS</td> <td>4</td> <td>4</td> <td>6</td> <td>8</td> </tr> </tbody> </table>				FISCAL YEAR	'79	'80	'81	'82	NUMBER OF PERSONS	4	4	6	8	<table border="1"> <thead> <tr> <th>FISCAL YEAR</th> <th>'83</th> <th>'84</th> <th>'85</th> </tr> </thead> <tbody> <tr> <td>NUMBER OF PERSONS</td> <td>8</td> <td>4</td> <td>4</td> </tr> </tbody> </table>				FISCAL YEAR	'83	'84	'85	NUMBER OF PERSONS	8	4	4			
FISCAL YEAR	'79	'80	'81	'82																										
NUMBER OF PERSONS	4	4	6	8																										
FISCAL YEAR	'83	'84	'85																											
NUMBER OF PERSONS	8	4	4																											

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		
							Ongoing	New				
<p>Cooperation terms: (Initial): April 1, 1981 - March 31, 1986 (F/U): April 1, 1986 - March 31, 1988</p> <p>Cooperating organization in Indonesia: Water Resources Bureau of the Ministry of Public Works</p> <p>Cooperating organization in Japan: Ministry of Agriculture, Forestry, and Fisheries</p>	<p>implement large-scale annual irrigation projects directed by the Ministry of Public Works of the Government of Indonesia. Indonesia requested technical cooperation from Japan to establish and operate of this center.</p> <p>After this request was received, Japan constructed this facility in fiscal year 1980 through cooperation and providing ¥1.5 billion in grant aid. Japan conducted a preliminary survey in 1979 related to the technical cooperation for operating the facility, and also dispatched an implementation survey team in February of 1981. Japan and Indonesia then signed an R/D agreement containing the following six items of cooperation: ①assistance on implementing and inspecting construction work, ②collecting, arranging, and presenting technical data, ③preparing standards for integration, construction methods, and construction control, ④systematizing information control and program development, ⑤testing soil and construction materials, and ⑥training technicians. In fiscal year 1980, the required facility was constructed by the Indonesians. Japan dispatched experts and provided equipment from</p>	1980	(Preparation of reports on the above)				① 886				4,507	
		1980	Implementation (survey)	Feb. 6 - 12, '81	5		② 65 3,556					
		1981	(Preparation of reports on the above)					③ 465				35,116
		1981	Detailed design (survey)	Aug. 20 - Oct. 3, '81	5		14,157	-	2	18,125	Meteorological system ④ 781 1,588	
		1982	Mutual consultation	July 25 - Aug. 7, '82	4		3,014	2	9	119,864	Equipment for outdoor irrigation-testing facility, survey and testing equipment, and vehicles ⑤ 1,920 113,755	
		1983	Technical advisory survey	Sep. 13 - 28, '83	5		2,189	7	7	125,463	Computer, construction machinery, micro-photography equipment 3,148 60,310	191,110

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)																	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)																
							Ongoing	New																				
	fiscal year 1981. An evaluation survey was conducted in October of 1985, and extended technical cooperation was determined based on the results of this evaluation. Follow-up cooperation (including the ongoing assignment of experts) was also done (except for irrigation). [NUMBER OF COUNTERPARTS ACCEPTED] <table border="1" style="margin: 10px auto;"> <tr> <td>FISCAL YEAR</td> <td>1981</td> <td>1982</td> <td>1983</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>3</td> <td>4</td> <td>4</td> </tr> <tr> <td>FISCAL YEAR</td> <td>1984</td> <td>1985</td> <td></td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>4</td> <td>4</td> <td></td> </tr> </table>	FISCAL YEAR	1981	1982	1983	NUMBER OF PERSONS	3	4	4	FISCAL YEAR	1984	1985		NUMBER OF PERSONS	4	4		1984	Technical advisory survey	Dec. 8 - 19, '84	3	3,395	6	11	122,426	Testing equipment, high-speed facsimile machine, wave height measuring system	© 2,131 61,873	189,825
		FISCAL YEAR	1981	1982	1983																							
		NUMBER OF PERSONS	3	4	4																							
		FISCAL YEAR	1984	1985																								
		NUMBER OF PERSONS	4	4																								
1985	Evaluation (survey)	Oct. 29 - Nov. 9, '85	5	9,294	9	10	86,098	Water-hammer pumps, slide projectors, and equipment for office work, etc.	© 1,386 28,025	124,803																		
1986				1,294			78,679		© 1,616 46,174	127,763																		
Cumulative total					41,085			550,655		322,707	914,447																	
The Remote Sensing Engineering Project for the Development of Agricultural Infrastructure Type of agreement: R/D Date signed: February 16, 1980	The Ministry of Public Works of the Republic of Indonesia is in charge of planning and construction for completing the infrastructure for the area concerned, and for land surveys related to developing agriculture (involving plans for migration to remote areas) in Sulawesi, Kalimantan, and Sumatra, and	1978	Preliminary survey	Nov. 27 - Dec. 8, '78	5	2,512					2,512																	

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)																
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)																	
							Ongoing	New																				
	<p>① Developing and operating the remote-sensing system, ② Collecting data from LANDSAT and aircraft, ③ Preparing main subject maps and evaluation maps, ④ Determining "ground truth" (actual conditions) in the case-study area(s), ⑤ Establishing multi-stage survey methods, etc.</p> <p>For the first three stages (up to the preparation of evaluation maps) a total system was built and was known as "PRESS" (Progressive Remote Sensing System). This system became operational in fiscal year 1984. Cooperation was then provided mainly for checking system operation and completing the necessary manuals. In fiscal year 1986, as the first-year follow-up project, data formats were standardized and the manuals were systematically completed as part of the first-year project.</p> <p>[NUMBER OF COUNTERPARTS ACCEPTED]</p> <table border="1"> <tr> <td>FISCAL YEAR</td> <td>1980</td> <td>1981</td> <td>1982</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>2</td> <td>2</td> <td>4</td> </tr> <tr> <td>FISCAL YEAR</td> <td>1983</td> <td>1984</td> <td>1985</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>4</td> <td>5</td> <td>2</td> </tr> </table>	FISCAL YEAR	1980	1981	1982	NUMBER OF PERSONS	2	2	4	FISCAL YEAR	1983	1984	1985	NUMBER OF PERSONS	4	5	2	1983	Technical advisory survey	Sep. 13 - 28, '83	5	3,743	6	10	81,334	Photo-print controller, wordprocessors, and cameras	© 626 25,254	110,957
		FISCAL YEAR	1980	1981	1982																							
		NUMBER OF PERSONS	2	2	4																							
		FISCAL YEAR	1983	1984	1985																							
		NUMBER OF PERSONS	4	5	2																							
		1984	Evaluation (survey)	Oct. 24 - Nov. 10, '84	4	6,006	6	5	58,613	Computer main memory unit, color ink jet printer, etc.	© 507 18,779	83,905																
1985	Technical advisory survey	Sep. 5 - 13, '85	2	1,534	4	8	87,119	Micro-computer system (s), book-binding machine (s), etc.	© 1,470 10,231	100,354																		
1986				2,030			36,301		© 737 17,736	56,804																		
Cumulative total				34,523			380,746		462,299	877,568																		

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)		
							Ongoing	New					
	<p>disease and insects and for supporting the system of assistance for controlling diseases and insect pests that attack rice plants. Instructions on testing and other research activities regarding the above matters were provided at the Jatisari testing laboratory and Bogor Central Agricultural Laboratory for predicting crop damage. Assistance was also provided on how to prepare and apply agricultural chemicals by the head office of the Food Crop Protection Bureau. The following projects were actually completed.</p> <p>1) Surveys and research activities to achieve more effective control of diseases and insect pests that attack rice plants</p> <p>2) Research on damage to rice plants due to disease and insects at the Jatisari testing laboratory for predicting crop damage</p> <p>3) Analysis of agricultural chemicals at the Basarminggu agricultural chemicals testing laboratory</p> <p>4) Technical assistance on how to formulate annual work plans for food crop protection by the Basarminggu central office</p> <p>5) Exchange of other information, research reports, etc.</p> <p>After February of 1981, three</p>	1983				Ⓔ 142							
		1983	Technical advisory survey	Jan. 29 - Feb. 9, 1984	3	2,290							
		1984	(Preparation of reports on the above)					6	7	63,775	Vehicles, audio-visual equipment, high-speed liquid chromatography equipment, etc.	Ⓒ 4,606 78,419	152,101
		1984	Evaluation (survey)	Jan. 17 - 28, 1985	5								
		1985	Mutual consultation (survey)	May 21 - 27, '85	3	2,520		7	7	67,904	Spare parts for vehicles, insect-breeding systems, gas chromatography apparatus, etc.	Ⓒ 4,329 36,698	111,451
		1986					1,884			87,452		Ⓒ 2,768 3,327	95,431
		Cumulative total					35,489			438,550		360,450	834,489

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)	
							Ongoing	New					
<p>The Veterinary Drug Control Project</p> <p>Type of agreement: R/D</p> <p>Date signed: February 11, 1984</p> <p>Cooperation term: (Initial): April 1, 1984 - March 31, 1989</p> <p>Livestock Bureau of the Ministry of Agriculture and Forestry</p> <p>Cooperating organization in Japan: Ministry of Agriculture, Forestry, and Fisheries</p>	<p>Indonesia's livestock industry has suffered major damage due to contagious diseases that affect livestock. This damage has greatly hindered the expansion of livestock production. Moreover, there has been no programs for nationwide examination, testing, and the standardization of veterinary drugs, which are essential for increasing productivity while preventing the loss of livestock due to epizootic diseases. There have also been many problems regarding the amounts of drugs administered, drug effectiveness, and drug safety. In view of this background, the Republic of Indonesia wanted to establish an examining organization with national-level authority. Consequently, Japan was requested to provide grant aid for the examination facilities, and technical cooperation for the project. After receiving this request, Japan decided to provide the following assistance at the veterinary drug control center to help promote the raising of livestock in Indonesia by increasing productivity. This would be done by ensuring the quality of veterinary drugs distributed in Indonesia, and effectively</p>	1982	Mutual consultation (survey)	Mar. 27 - Apr. 9, '83	2	1,635					1,635		
		1983	Work plan discussion Implementation (survey)	Jan. 23 - Feb. 15, '84	5	7,067	0	2	4,112		© 233	11,412	
		1984	(Preparation of reports on the above)					0	5	27,442	Fluorescent microscopes high-speed cooling centrifuge machines, and vehicles	© 813 94,388	129,800
		1984	Mutual consultation	Jan. 20 - Feb. 2, '85	3								
		1985	Technical advisory survey	Jan. 27 - Feb. 17, '86	2	3,440	4	8	98,236	Equipment for examination, vehicles, and reagents, etc.	© 2,361 77,298	181,335	
		1986								84,179	© 6,016 137,521	130,486	
										213,969	218,630	454,668	

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		
							Ongoing	New				
	preventing the loss of livestock due to disease. (1) Assistance and advice related to the legal restrictions on and technology used for veterinary drugs under governmental administration (2) Investigation, research, and technical assistance on quality control and authorization related to the distribution of veterinary drugs (3) Technical assistance on the testing and examination of veterinary drugs (particularly biological drugs and anti-biotics) (4) Technical assistance on the breeding, controlling, and reproduction of test animals needed for animal inoculation testing (5) Assistance and advice on the professional training of veterinarians for animal clinics, inspectors to check veterinary drugs and drug manufacturers in view of the governmental administration of veterinary drugs	Cumulative total				22,069			213,969		218,630	454,668

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)									
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)								
							Ongoing	New												
<p>Tropical Rain Forest Research Project Type of agreement: R/D Date signed: Dec. 10, 1984 Cooperation term: (Initial): Jan. 1, 1985 - Dec. 31, 1989 Cooperating organizations in Indonesia: Ministry of Education and Culture (Bogor University of Agriculture, Gajamada University, and Murawaruman University) Cooperating organizations in Japan: Ministry of Agriculture, Forestry, and Fisheries, and the Ministry of Education</p>	<p>The Government of Indonesia requested that Japan provide technical cooperation for a study on how to preserve tropical rain forest resources, and for ways to increase the levels of related education and research. In response to this request, Japan conducted an advance survey in fiscal year 1983, and signed an R/D agreement in fiscal year 1984. This project involved research in five areas: land use classifications and planning, work related to forests in their natural environment, work related to plantations, classifications of forest rankings, and agroforestry at the Tropical rain Forest Research Center, which was built with Japan's cooperation and grant aid. Three experts (including a team leader) were dispatched in March of 1985 to begin full-scale technical cooperation.</p> <p>[NUMBER OF COUNTERPARTS ACCEPTED]</p> <table border="1"> <tr> <td>FISCAL YEAR</td> <td>1983</td> <td>1984</td> <td>1985</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>0</td> <td>0</td> <td>3</td> </tr> </table>	FISCAL YEAR	1983	1984	1985	NUMBER OF PERSONS	0	0	3	1983	Preliminary survey	Feb. 28 - Mar. 17, '84	4	3,271		1	1,475		-	4,746
		FISCAL YEAR	1983	1984	1985															
		NUMBER OF PERSONS	0	0	3															
		1984	(Preparation of reports on the above)						0	3	11,762	Copy machines, etc.	© 549 958	21,452						
		1984	Implementation (survey)	Dec. 9 - 13, '84	5	8,183														
		1984	Detailed design (survey)	Mar. 10 - 22, '85	4															
		1985	Mutual consultation (survey)	Oct. 28 - Nov. 7, '85	4	6,920		1	8	96,572	Equipment and materials for research, "bobcat", vehicles, etc.	© 2769 83,437	189,437							
1986				5,800				108,213		© 2,905 68,862	185,780									
Cumulative total					24,174			218,022		159,219	401,415									

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)							
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)						
							Ongoing	New										
Food Crop Development Center Project	<p>Japan and Indonesia signed and concluded an R/D agreement in July of 1981 for technical cooperation involving five high-priority items required to increase rice production according to Indonesia's policy of self-sufficiency in food crop. The Government of Indonesia decided to establish a food crop development center that would help popularize the technology covered by the R/D agreement, and make that technology available the local area. Technical cooperation for this project was requested in 1982. Japan conducted a on-site survey to confirm the contents of this request in July of 1983, and a three-member survey team (long-term) was dispatched on June 16, 1983, for a 55-day assignment. Later, a field survey of the site was conducted, as were discussions. These discussions involved the Ministry of Agriculture, as well as other organizations working on the project, and were held to confirm the feasibility of technical cooperation.</p> <p>[NUMBER OF COUNTERPARTS ACCEPTED]</p> <table border="1"> <tr> <td>FISCAL YEAR</td> <td>1983</td> <td>1984</td> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>0</td> <td>0</td> </tr> </table>	FISCAL YEAR	1983	1984	NUMBER OF PERSONS	0	0	1983	Preliminary survey	July. 30 - Aug. 5, '83	2	1,288		3	13,040		190	14,518
		FISCAL YEAR	1983	1984														
		NUMBER OF PERSONS	0	0														
1984	Preliminary survey	Oct. 22 - Nov. 4, '84	5	4,694	-	-				-	4,694							
	Cumulative total					5,982			13,040		190	19,212						

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)		
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)	
							Ongoing	New					
Project for the "Center for Development of Appropriate Agricultural Engineering Technology" Type of agreement: R/D Date signed: Feb. 7, 1987 Cooperation term: (Initial): April 1, 1987 - March 31, 1992 Cooperating organization in Indonesia: Food Crop Production Bureau of the Ministry of Agriculture Cooperating organization in Japan: Ministry of Agriculture, Forestry, and Fisheries	The Government of Indonesia gave top priority in its fourth five-year national development project (1984 - 1988) to: (1) Development and support of the industrial sector, and (2) development of agriculture for secure and stable agricultural production. The above-mentioned five-year project also emphasized a suitable level of agricultural mechanization, according to existing conditions in Indonesia. In other words, the fourth five-year plan was developed to simultaneously promote the domestic production of agricultural machines, and the mechanization of agriculture (suited to Indonesian agriculture and agricultural techniques). The purposes of this agricultural mechanization were: (1) to increase agricultural production by improving production procedures, (2) to improve product quality and reduce production loss, (3) to reduce production costs and increase farmer incomes, and (4) to reduce the reliance on heavy manual labor. In view of the above background, Japan was requested to provide grant aid and technical cooperation for this project at the 8th Japan-Indonesia annual conference, held in August of	1985	Preliminary survey	June 17 - 30, '85	4	8,919	0	3	6,182		17	15,118	
		1986				3,879							3,879
		Cumulative total					12,798			6,182		17	18,997

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	
							Ongoing	New			
	<p>1984. In response to this request, Japan conducted an on-site field study to examine and discuss the appropriate facility size, and establish the basic framework for project-type technical cooperation. This study was done after examining the results of the contact mission conducted by the survey team dispatched in mid-May of 1985.</p> <p>This project has been providing advice and technical assistance in the following areas to help on Republic of Indonesia develop its own unique agricultural machines suited for Indonesian agriculture.</p> <ol style="list-style-type: none"> 1) Technological analysis of agricultural mechanization 2) Design, development, and improvement of agricultural machines 3) Examination and evaluation of agricultural machines 4) Training and education 										
Survey on preparing standards for southeastern Asia irrigation project(s) Survey term: October 29 - November 24, 1973	See the section on Asia in general (Indonesia, Laos, the Philippines, and Thailand) for details.	1973	Basic survey	Oct. 29 - Nov. 24, '73	(8)	(2,040)					(2,040)
		Cumulative total				(2,040)					(2,040)

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	
							Ongoing	New			
Southeast Asian area agricultural cooperation project (fact-) finding survey Survey term: December 8, 1974 - December 27, 1974	See the section on Asia in general (Indonesia and Thailand) for details.	1974	Basic survey	Dec. 8 - 27, '74	(5)	(1,698)					(1,698)
		Cumulative total					(1,698)				
Survey on establishing a new, on-site specialist-training organization Survey term: December 8, 1974 - December 23, 1974	See the section on Asia in general (Indonesia, the Philippines, and Thailand) for details.	1974	Basic survey	Dec. 8 - 23, '74	(3)	(629)					(629)
		Cumulative total					(629)				
Survey on actual situation of agricultural development cooperation Survey term: March 10, 1975 - April 10, 1975	See the section on Asia in general (Indonesia and Thailand) for details.	1974	Basic survey	Mar. 10 - Apr. 10, '75	(5)	(3,061)					(3,061)
		Cumulative total					(3,061)				
Technical advisory survey for agricultural civil engineering Survey term: September 1, 1975 - September 21, 1975	See the section on Asia in general (Indonesia and Nepal) for details.	1975	Technical advisory survey	Sep. 1 - 21, '75	(4)	(1,666)					(1,666)
		Cumulative total					(1,666)				

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Survey on preparing project standards for agricultural mechanization in developing countries Survey term: October 27, 1975 - November 17, 1975	See the section on Asia in general (Malaysia, the Philippines, Indonesia, India, and Thailand) for details.	1975	Basic survey	Oct. 27 - Nov. 17, '75	(10)	(3,324)					(3,324)	
		Cumulative total					(3,324)					(3,324)
Technical advisory survey for maintaining agricultural project facilities Survey term: September 18 - October 8, 1976	See the section on Asia in general (Indonesia and Nepal) for details.	1976	Technical advisory survey	Sep. 18 - Oct. 8, '76	(5)	(2,206)					(2,206)	
		Cumulative total					(2,206)					(2,206)
Technical advisory survey for the research cooperation sector Survey term: December 3, 1976 - December 23, 1976	See the section on Asia in general (Indonesia and Korea) for details.	1976	Technical advisory survey	Dec. 3 - 23, '76	(4)	(1,671)					(1,671)	
		Cumulative total					(1,671)					(1,671)

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Survey on preparing project standards for agricultural expansion Survey term: November 21 - December 3, 1977	See the section on Asia in general (Indonesia, the Philippines, and Thailand) for details.	1977	Basic survey	Nov. 21 - Dec. 3, '77	(8)	(5,637)					(5,637)	
		1978	(Expenses for the above were calculated as expenses for fiscal year 1978)				(1,683)				(1,683)	
		Cumulative total					(7,320)				(7,320)	
Technical advisory survey for soil and fertilizer sector Survey term: December 6, 1977 - December 14, 1977	See the section on Asia in general (Indonesia and Thailand) for details.	1977	Technical advisory survey	Dec. 6 - 14, '77	(4)	(915)					(915)	
		Cumulative total					(915)				(915)	

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		
							Ongoing	New				
Survey on developing a method of measuring the effects of the agricultural cooperation project Survey term: February 13, 1978 - March 4, 1978	See the section on Asia in general (Indonesia, Malaysia, and the Philippines) for details.	1978	Basic survey	Feb. 13 - Mar. 4, '78	(5)	(2,272)					(2,272)	
		1978	(Preparation of reports on technical costs for the above)				(2,993)					(2,993)
		Cumulative total					(5,265)					(5,265)
Basic survey of overall development of farm villages Survey term: March 6, 1978 - March 25, 1978	See the section on Asia in general (Indonesia and the Philippines) for details.	1977	Basic survey	Mar. 6 - 25, '78	(5)	(1,789)					(1,789)	
		1978	(Preparation of reports on technical costs for above)				(6,205)					(6,205)
		Cumulative total					(7,994)					(7,994)

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	
							Ongoing	New			
Technical advisory survey for sericultural development cooperation project Survey term: March 7, 1978 - March 22, 1978	See the section on Asia in general (Indonesia and Thailand) for details.	1977	Technical advisory survey	Mar. 7 - 22, '78	(4)	(1,402)					(1,402)
		Cumulative total					(1,402)				
Survey on measuring the cooperative effectiveness of the agricultural cooperation project Survey term: January 22, 1979 - Feb. 9, 1979	This was a basic survey measured the cooperative effectiveness and evaluation methods for the agricultural technique expansion project. The survey team conducted a field survey concerning the effectiveness of basic ideas drawn from the survey results of fiscal year 1977, and from the planning work done in Japan in the first half of fiscal year 1978 for the Tajum pilot project and Ranpon agricultural development project in Indonesia, which were used as case studies.	1978	Basic survey	Jan. 22 - Feb. 9, '79	5	19,484					19,484
		Cumulative total					19,484				
Technical advisory survey for mode infrastructure completion project Survey term: April 25, 1978 - May 24, 1978	See the section on Asia in general (Bangladesh, Indonesia, Malaysia, the Philippines, and Thailand) for details.	1978	Technical advisory survey	Apr. 25 - May 24, '79	(3)	(885)					(885)
		Cumulative total					(885)				

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Technical advisory survey for sericulture development project Survey term: November 14, 1978 - November 26, 1978	See the section on Asia in general (Indonesia and Thailand) for details.	1978	Technical advisory survey	Nov. 14 - 26, '78	(3)	(1,127)					(1,127)	
		Cumulative total					(1,127)					(1,127)
Technical advisory survey for livestock health care improvement project Survey term: November 23, 1978 - December 12, 1978	See the section on Asia in general (Indonesia and Thailand) for details.	1978	Technical advisory survey	Nov. 23 - Dec. 12, '78	(4)	(1,653)					(1,653)	
		Cumulative total					(1,653)					(1,653)
Basic survey on farm village overall development project Survey term: November 26, 1978 - December 15, 1978	See the section on Asia in general (India and Sri Lanka) for details.	1978	Basic survey	Nov. 26 - Dec. 15, '78	(5)	(8,606)					(8,606)	
		Cumulative total					(8,606)					(8,606)

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Technical advisory survey for forestry yield technical cooperation project Survey term: August 26, 1979 - September 9, 1979	See the section on Asia in general (Burma and Indonesia) for details.	1979	Technical advisory survey	Aug. 26 - Sept. 9, '79	(5)	(1,937)					(1,937)	
		Cumulative total					(1,937)					(1,937)
Technical advisory survey for sericulture development project Survey term: September 26, 1970 - October 16, 1979	See the section on Asia in general (Indonesia and Thailand) for details.	1979	Technical advisory survey	Sep. 26 - Oct. 16, '79	(4)	(1,506)					(1,506)	
		Cumulative total					(1,506)					(1,506)
Agro-forestry project operation assistance Survey term: October 21, 1979 - November 7, 1979	See the section on Asia in general (Indonesia, the Philippines, and Thailand) for details.	1979	Technical advisory survey	Oct. 21 - Nov. 7, '79	(4 + f(1))	(1,141)					(1,141)	
		Cumulative total					(1,141)					(1,141)

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	
							Ongoing	New			
Technical advisory survey for equipment maintenance and administration Survey term: November 12, 1979 - December 2, 1979	See the section on Asia in general (Indonesia and the Philippines) for details.	1979	Technical advisory survey	Nov. 12 - Dec. 2, '79	(2)	(1,083)					(1,083)
		Cumulative total					(1,083)				
Survey on preparing logging project standards Survey term: November 19, 1979 - Dec. 13, 1979	See the section on Asia in general (Indonesia and the Philippines) for details.	1979	Basic survey	Nov. 19 - Dec. 13, '79	(6)	(8,463)					(8,463)
		Cumulative total					(8,463)				
Technical advisory survey for Indonesian agricultural research project and Bangladesh horticultural research cooperation project Survey term: December 1, 1979 - December 24, 1979	See the section on Asia in general (Indonesia and Bangladesh) for details.	1979	Technical advisory survey	Dec. 1 - Dec. 24, '79	(6)	(2,756)					(2,756)
		Cumulative total					(2,756)				

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	
							Ongoing	New			
Basic survey on actual situation of farmer organizations Survey term: January 20, 1980 - February 9, 1980	See the section on Asia in general (Indonesia and the Philippines) for details.	1979	Basic survey	Jan. 20 - Feb. 9, '80	(4)	(7,023)					(7,023)
		Cumulative total					(7,023)				
Post-project survey on each country in which agro-forestry cooperation was provided Survey term: January 20, 1980 - February 13, 1980	See the section on Asia in general (Indonesia and the Philippines) for details.	1979	Basic survey	Jan. 20 - Feb. 13, '80	(5)	(9,889)					(9,889)
		Cumulative total					(9,889)				
Technical advisory survey for equipment maintenance and administration Survey term: February 11, 1980 - March 7, 1980	See the section on Asia in general (Indonesia and Thailand) for details.	1979	Technical advisory survey	Feb. 11 - Mar. 7, '80	(2)	(1,335)					(1,335)
		Cumulative total					(1,335)				

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Project standards survey on forestry operations	See the section for Asia in general (Indonesia, Malaysia, and Thailand) for details.	1980	Basic survey	Nov. 11 - Dec. 7, '80	(4)	(6,206)					(6,206)	
		Cumulative total				(6,206)					(6,206)	
Maintenance and administration of agricultural equipment in Asia	See the section on Asia in general (Indonesia and the Philippines) for details.	1980	Maintenance and administration of equipment	Dec. 9 - 29, '80	(2)	(3,122)					(3,122)	
				Feb. 8 - 16, '81	(4)							
Cumulative total						(3,122)					(3,122)	
Maintenance and administration of equipment in Asia	See the section on Asia in general (Indonesia and the Philippines) for details.	1980	Maintenance and administration of equipment	Apr. 10 - May 5, '81	(2)	(1,501)					(1,501)	
		Cumulative total				(1,501)					(1,501)	

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	
							Ongoing	New			
Assistance for model infrastructures in Asia	See the section on Asia in general (Bangladesh and Indonesia) for details.	1980	Technical advisory survey	Sep. 24 - Oct. 11, '80	(3)	(1,376)					(1,376)
		Cumulative total					(1,376)				
Maintenance and administration of Asian forestry equipment	On-site assistance was provided for the maintenance and administration of the equipment provided by the grant aid for two projects: the project to develop forests in southern Sumatra in Indonesia, and the project to develop a mountainous forest in Java.	1981	Maintenance and administration of equipment	Nov. 9 - Dec. 2, '81	2	Ⓢ 475 3,225					3,700
		Cumulative total					3,700				
Assistance for creating model infrastructures for Asian agriculture	See the section on Asia in general (Indonesia and Thailand) for details.	1981	Technical advisory survey	Oct. 27 - Nov. 14, '81	(3)	(1,381)					(1,381)
		Cumulative total					(1,381)				

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Assistance for the agro-forestry cooperation project	See the section on Asia in general (Indonesia and Malaysia) for details.	1981	Technical advisory survey	Sep. 27 - Oct. 14, '81	(6)	(2,530)					(2,530)	
		Cumulative total					(2,530)					(2,530)
Survey on preparing project standards (veterinary care for livestock)	See the section on the world in general (Indonesia, Malaysia, Thailand, the Philippines, Kenya, Mexico, Costa Rica, and Colombia) for details.	1981	Basic survey	Mar. 30 - Apr. 23, '82	(8)	(1,578)					(1,578)	
		1982	(Preparation of reports on the above)				①(1,368)					(1,368)
		Cumulative total					(2,946)					(2,946)

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)
							Ongoing	New				
Research on and development of education	<p>Technical cooperation has played a vital role in promoting the development of agriculture and forestry in developing countries. Of particular importance is the acquisition of sufficient high-level technicians from the partner nation to provide the technical cooperation, which is the key to a successful project. It is, therefore, no exaggeration to say that understanding the actual agricultural testing and research situation, existing education situation, and the quantitative and qualitative conditions related to available agricultural technicians before planning a cooperation project is extremely important.</p> <p>This survey was conducted to determine the actual research and education situation related to agriculture and forestry in the Republic of Indonesia.</p>	1982	Basic survey	Sep. 13 - Oct. 2, '82	4	4,084					4,084	
		1983	(Preparation of reports on the above)				① 240					240
			Cumulative total					4,324				
Grand total						936,156			7,949,022	6,683,234	(15,568,412)	

(NATION) Indonesia (Agriculture and Forestry Cooperation Programme)

(Unit: 1000 yen)

Name of project or item	Fiscal year	Trainees	Survey team	Experts	Volunteers	Equipment supply	Other	Grand total
Forest improvement and afforestation in south Sulawesi	1986		1,553					1,553
	Cumulative total		1,553					1,553
Agricultural research support project	1986		68,489	4,109		4,819		77,417
	Cumulative total		68,489	4,109		4,819		77,417
Expansion project for Bogor University of Agriculture	1986		1,778					1,778
	Cumulative total		1,778					1,778
Survey of equipment supply and administration	1986		12,292					12,292
	Cumulative total		12,292					12,292
Improvements to center for livestock population control and fertilization	1986		17,995	40,016		46,919		104,930
	Cumulative total		17,995	40,016		46,919		104,930
Fishery project (shrimp)	1986		3,497					3,497
	Cumulative total		3,497					3,497
Operation assistance survey on agro-forestry project operation	1986		2,290					2,290
	Cumulative total		2,290					2,290
Other	Until 1983			183,600		108,910		292,510
	Cumulative total			183,600		108,910		292,510

Name of project or item	Fiscal year	Trainees	Survey team	Experts	Volunteers	Equipment supply	Other	Grand total
(Total for Agriculture and Forestry Cooperation programme)			(1,041,760)	(8,176,747)		(6,843,882)		(16,062,389)

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)	
							Ongoing	New				
Eastern Java Corn (Maize) Development Cooperation Project Type of agreement: Agreement Date signed: Dec. 16, 1967 Cooperation term: Dec. 1967 - March, 1971 Type of agreement: Agreement (extension) Date signed: April 2, 1971 Cooperation term: April, 1971 - July, 1974	The production of corn (maize) in Indonesia has long been somewhat stagnant due to a low yield per tan (.245 acre/993 m ²). Therefore, a project was considered to rapidly increase maize production by using superior-quality seeds, fertilization, cultivation, and agricultural mechanization to produce a surplus of good-quality maize. The amount previously produced maize was sufficient only for domestic consumption, although it was hoped that a surplus could be produced for export. Eastern Java Province, a maize-producing area, was selected as the subject area for this project, for which Indonesia requested Japan's technical cooperation. After receiving this request, Japan dispatched specialists in cultivation, distribution, and quality control, and provided the necessary equipment through grant supply in an initial three-year cooperation project (beginning in fiscal year 1968). Japan later extended the cooperation term for another three years (until the end of July, 1974). The project headquarters was established at the Eastern Java Province Agricultural Expansion Bureau, which is closely tied to the central government. This project mainly implemented in the	1967	Field survey	Nov. 19 - Dec. 19, '67	7	4,924			382			5,306
		1968	Technical advisory survey		4	3,560	-	6	22,964		32,763	59,287
		1969	Technical advisory survey		6	3,901	5	-	24,422		21,156	49,479
		1970	Technical advisory survey		7	2,837	5	4	32,137		39,853	74,827
		1971	Technical advisory survey	Mar. 1 - 30, '72	5	2,884	9	8	40,817		66,214	109,915
		1972	Technical advisory survey		4	1,567	7	-	36,827		72,982	111,376
		1973	Technical advisory survey	Feb. - Mar., '74	6	3,488	7	-	41,430		2,750	47,668
		1974					6	-	15,116		20,538	35,654
		1975										
		Cumulative total								214,095		256,256

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)	
							Ongoing	New				
	conducted for this project. This cooperation project was turned over to the Government of Indonesia, and was terminated in July of 1974. The objectives of the first half of this project were very different from those of the second half. In the second half of the project, emphasis was placed on greater support for the farmers' union, instead of the export of maize. This may indicate that eastern Java is not suitable for producing maize to be imported by Japan.											
"Lampung" Agricultural Development Cooperation Project Type of agreement: Agreement Date signed: November 14, 1972 Cooperation term: (Initial): November 14, 1972 - November 13, 1977	(See the section on agricultural and cooperation programmes for details.)	1970	Basic survey		5 + 2	5,212						5,212
		1971	Field survey		10	6,882		2	3,854			10,736
		1972						3	10,321		64,966	75,287
		1973	Technical advisory survey		6	3,257		2	25,117			28,374
		1974				Ⓓ 48						
		1974				Ⓔ 117		1	33,506		Ⓒ 193 50,889	84,753
		1975				Ⓔ 242	4	3	47,896		71,643	119,781
		1976	Technical advisory survey	June 7 - July 5, '76	4	Ⓔ 327 4,091	4	1	44,829		69,999	119,246
1977				Ⓔ 258	4		32,840		80,433	113,531		

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)		
							Ongoing	New					
		Cumulative total				20,434			198,363		338,123	556,920	
<p>"Technical Cooperation on the Development of Building Materials" Type of agreement: R/D Date signed: July 19, 1978 Cooperation terms: (Initial): July 19, 1978 - July 18, 1982 (Extension): July 19, 1982 - November 30, 1983 Cooperating organizations in Indonesia: Building research institute of the Ministry of Public Works and Electricity, Pottery Industry Research Institute of the Ministry of Industry</p>	<p>The Government of Indonesia gave top priority to the construction of low-cost housing in its second five-year economic development project, which started in 1974. The Government of Indonesia requested Japan's technical cooperation to fully utilize all available experience and know-how, not only for research on conventional building materials, but also for the development of new, unconventional building materials in the above project. After Japan received this request, a preliminary survey mission was dispatched in December of 1977 to investigate the feasibility of such cooperation. After studying the preliminary survey results, Japan dispatched a field survey mission in July of 1978 to hold discussions with the Indonesian organizations involved with the project, and the Minutes of Debate for these talks were signed. For the pulp and cement boards used in this project, the cooperating organization in Indonesia was the Building</p>	1977	Preliminary survey	Dec. 11 - 27, '77	3	3,130						3,130	
		1978	Field survey	July 5 - 21, '78	6 + (1)	11,808	-	3	8,382			3,348	23,538
		1979	Mutual consultation (survey)	Feb. 14 - 29, '79	5	3,964	-	4	12,139	Pulp cement board manufacturing machines	© 7,800 52,280		76,183
		1980				① 240							
		1980	Technical advisory survey	Mar. 21 - Apr. 4, '81	4	3,331	-	8	34,439	Pulp cement board manufacturing machines and facilities	© 14,231 30,000		82,241
		1981				① 206							
		1981	Technical advisory survey	Dec. 12 - 20, '81	4	② 979 3,272	3	4	36,491	Manufacturing plant for artificial, lightweight aggregate	© 184 201,562		242,694

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)	
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		
							Ongoing	New				
	<p>Research Institute of the Ministry of Public Works and Electricity. The Pottery Industry Research Institute of the Ministry of Industry was involved with the artificial light weight aggregate used in this project. The contents of the technical cooperation were:</p> <p>① a feasibility survey for selecting the best-possible location for the pilot plant, ② the designing and building of a pilot plant, and the building of testing facilities needed for quality control and research/development, ③ trial operation of the pilot plant, ④ the training of Indonesian mission members, and ⑤ the establishment of an organization to promote the results of this technical cooperation. Technical cooperation was provided out for four years (beginning in July of 1978). To continue this project, the cooperation term was extended to November 30, 1983, as recommended by the evaluation survey (team). Cooperation for this period was concerned mainly with pulp. The targeted goals were achieved, and the project was terminated at the end of November, 1983.</p>	1982	Evaluation (survey)	May 25 - June 8, '82	4	3,679	5	10	64,651	Various items of equipment for testing and research	① 1,118 15,409	84,857
		1983	Technical survey	May 1 - 27, '83	2	236	5	4	29,329	Spare parts, moisture gauge with microcomputer, and station wagon	① 1,832 12,334	43,731
		Cumulative total					30,845			185,431		340,098

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)															
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items																
							Ongoing	New																		
	<p>[NUMBER OF COUNTERPARTS ACCEPTED]</p> <table border="1"> <thead> <tr> <th>FISCAL YEAR</th> <th>1978</th> <th>1979</th> <th>1980</th> </tr> </thead> <tbody> <tr> <td>NUMBER OF PERSONS</td> <td>2</td> <td>3</td> <td>3</td> </tr> <tr> <th>FISCAL YEAR</th> <th>1981</th> <th>1982</th> <th>1983</th> </tr> <tr> <td>NUMBER OF PERSONS</td> <td>6</td> <td>5</td> <td>2</td> </tr> </tbody> </table>	FISCAL YEAR	1978	1979	1980	NUMBER OF PERSONS	2	3	3	FISCAL YEAR	1981	1982	1983	NUMBER OF PERSONS	6	5	2									
FISCAL YEAR	1978	1979	1980																							
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FISCAL YEAR	1981	1982	1983																							
NUMBER OF PERSONS	6	5	2																							
<p>Biomass Energy Research and Development Centre</p> <p>Type of agreement: Agreement</p> <p>Date signed: October 22, 1982</p> <p>Cooperation term: (Initial): October 22, 1982 - October 21, 1986</p> <p>Cooperating organization in Indonesia: Technical Development and Application Agency</p>	<p>The Government of Indonesia has been actively promoting a "substitute energy" development project to develop an alternate energy source to petroleum, with the ultimate goal of promoting more effective use of petroleum resources by producing and using alcohol fuel as a substitute for oil. As part of the project, the required amount of alcohol was to be produced from the raw materials provided by inexpensive agricultural resources. The Government of Indonesia planned to build a trial alcohol-production plant in Surusuban in "Lampung" province, and also planned to establish a research and development centre for cultivating the crops to be used as the raw materials for alcohol-production. This project also included the operation and control of the test plant, alcohol-production technology, and research on social and economic systems involving the use of alternate energy sources.</p>	1981	Preliminary survey	Mar. 16 - 29, '82	6	4,100																				
		1981					556																			
		1982	Implementation (survey)	Oct. 12 - 26, '82	5	17,098	0	4	13,274		Ⓒ 8,704	39,076														
		1983	Mutual consultation (survey)	Dec. 6 - 18, '83	5	8,593	2	12	103,427	Tractors and small fermentation systems	Ⓒ 10,928 51,204	174,152														
		1984	(Preparation of reports for the above)				Ⓓ 99	8	5	97,381	Small and medium-sized fermentation systems, liquid and gas chromatographs, ultrasonic flow-meter, trial alcohol-distillation system															
		1984	Technical advisory survey	Nov. 28 - Dec. 7, '84	4	4,549					Ⓒ 2,363 24,298	128,690														

Project name	Summary	Fiscal year	Survey teams				Experts			Equipment supply		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items	Expenditures (1000 yen)	
							Ongoing	New				
	<p>The Government of Indonesia requested technical cooperation and grant aid from Japan for this project. In response to this request, Japan dispatched a basic design survey team in March of 1981, and signed an official Exchange Note (E/N) concerning the grant aid in October of 1981.</p> <p>Japan also dispatched a preliminary survey team in March of 1982 to conduct a survey concerning technical cooperation. The team held discussions with officials of the Indonesian Government, and also conducted a field survey. After studying the results of the above survey in October of 1982, Japan dispatched an implementation survey team, signed an R/D agreement, and began providing cooperation. The purpose of this cooperation was to provide technical assistance for ① cultivating crops to be used as the raw materials for alcohol-production, ② the operation and control of a trial alcohol-production plant, ③ alcohol-production technology, and, ④ research on social and economic systems involving the use of alternate energy sources.</p>	1985	Technical advisory survey	Dec. 11 - 19, '85	4	4,872	5	10	86,308	pH meters, microscopes, centrifugal separators, etc.	③ 3,470 4,973	99,623
		1986				5,412			34,160		③ 261 32,238	72,071
		Cumulative total				45,279			334,550		138,439	518,268

Project name	Summary	Fiscal year	Survey teams				Experts		Equipment supply		Grand total of expenditures (1000 yen)									
			Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	Number of experts		Expenditures (1000 yen)	Names of major equipment items		Expenditures (1000 yen)								
							Ongoing	New												
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FISCAL YEAR	1982	1983	1984	1985																
NUMBER OF PERSONS	2	3	3	3																
Nickel laterite ore processing technology	<p>Indonesia is a nation rich in natural resources, with the world's third largest nickel ore deposits. Although the amount of nickel refined domestically is extremely small, the domestic consumption of nickel depends largely on imports. Consequently, the Government of Indonesia requested that Japan provide technical cooperation to establish processing technology for the abundance of low-grade nickel ore that had not been widely used. In this way, nickel ore could be used to contribute to Indonesia's economic development. After Japan received the above request, a preliminary survey team was dispatched in March of 1986. The survey team thoroughly investigated the background of this request and the need for technical cooperation, and at the same time, explained the mechanisms of technical cooperation to be provided by Japan to the Government of Indonesia.</p>	1985	Preliminary survey	Mar. 21, '86 - Mar. 30, '86	5	3,374			-	-	3,374									
		1986				509			1,438	© 16	1,963									
		Cumulative total				3,883			1,438	16	5,337									

Project name	Summary	Fiscal year	Survey teams				Technical advisers		Equipment grant		Grand total of expenditures (1000 yen)
			Type of survey	Survey terms	Number of staff members	Expenditures (1000 yen)	Number of technical advisers		Expenditures (1000 yen)	Names of major equipment items	
							Ongoing	New			
Preliminary survey on technical cooperation for natural rubber development Survey term: Jan. 19, 1976 - Feb. 17, 1976	See the section on Asia in general (Indonesia, Malaysia, Singapore, the Philippines, and Thailand) for details.	1975	Preliminary survey	Jan. 19 - Feb. 17, '76	(4)	(922)					(922)
		Cumulative total					(922)				
Southeast Asia "Project Finding" survey Survey term: March 3, 1977 - March 17, 1977	See the section on Asia in general (Indonesia and Malaysia) for details.	1976	Preliminary survey	Mar. 3 - 17, '77	(3)	(883)					(883)
		Cumulative total					(883)				
Foreign trade training center		1986				6,262					6,262
		Cumulative total					6,262				

(NATION) Indonesia

(Unit: 1000 yen)

Name of project or item	Fiscal year	Trainees	Survey team	Technical advisers	Cooperating volunteers	Equipment grant aid	Other	Total
Other	Until 1983		(19,207)			7		19,214
	Cumulative total		(19,207)			7		19,214
(Total for industrial development cooperation programme)			(150,876)	(933,877)		(1,072,939)		(2,157,692)

[DEVELOPMENT SURVEY-TYPE TECHNICAL COOPERATION]
Development survey programme

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Southeast Asian area telecommunications network improvement project survey	See the section on Asia in general (Indonesia, Laos, Malaysia, the Philippines, Thailand, Taiwan, and Viet Nam) for details.	1967	Investment	Oct. 7 - Nov. 11, '67	(6)	(693)
		Cumulative total				(693)
Survey on selecting and confirming development survey projects	See the section on Asia in general (Indonesia, Malaysia, and the Philippines) for details.	1975	Preliminary survey	July 8 - 26, 1975	(2)	(492)
		Cumulative total				
Harbor construction project survey accompanying Kalimantan Forest Development	Survey on the shipping port construction project accompanying the development of Lauan (Philippine Mahogany) lumber resources in the eastern Kalimantan region.	1960		July - Sept., 1960	5	5,477
		Cumulative total				
Survey on improving the city water-supply system in Jakarta	The city water-supply system in Jakarta could supply water to only one-third of the city's population. This survey was conducted in preparation for an plan to expand the system to cope with a growing population in a city faced with a severe water shortage.	1962	Investment	Mar. 1 - Apr. 9, 1963	6	3,711
		1963	Investment		0	621
		Cumulative total				4,332
Pontianak bridge construction project survey	Because the city of Pontianak had no bridges over the two rivers that flow through it, the area's development was greatly hindered. Therefore, a survey was conducted on a possible project to construct bridges over these rivers.	1964	Investment	Jan. 4 - Feb. 4, 1965	5	3,343
		Cumulative total				3,343
Corn (maize) development project survey	Survey on the drying methods, storage facilities, and transportation related to a project for increasing corn production in eastern Java and southern Sumatra	1966	Investment	March 7 - 28, 1967	5	2,217
		1967	Investment		0	264
		Cumulative total				2,481

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Sumatra Highway construction project survey	This survey was conducted on the construction of a 2,400km trunk road from Bonda Atjeh (northern end of Sumatra) to Pandjang (southern end of the island).	1966	Smatra road construction	Aug. 27 - Oct. 9, 1966	4 + (3)	3,607
		Cumulative total				3,607
Surveys on improving Bitung port, and the Sulawesi Palau road repair project	Surveys on drawing up a total improvement plan for Bitung port, planning ways to improve natural conditions, and planning road repairs NOTE: See Expansion Project Survey No. 41 (in fiscal year 1976)	1967	Investment	Sept. 3 - Oct. 17, 1967	9	10,642
		Cumulative total				
Survey on Barito River basin development project	<p>① Preliminary survey (primary survey) Preliminary survey for drawing up the basic survey plan needed to determine the contents of the Barito River basin development project</p> <p>② Field survey (secondary survey)</p> <p>③ Aerial photography operations preparing topographic maps of the Barito River basin Aerial photography of 6,000 km² of the Barito River basin (total area of 60,000 km²) to establish a master plan for this area. Land surveys and other such investigations as celestial surveys, tide observation, water level surveys, and field surveys. Mapping and printing work, preliminary and supplementary surveys and investigations, and inspection of original maps. It became possible to resume aerial photography operations, which had been suspended for a time during fiscal year 1971, when the Government of Indonesia officially authorized the use of diapositive film. As a result, aerial photography operations were resumed in fiscal year 1971 to continue this project.</p>	1969	Preliminary survey	Mar. 24 - Apr. 25, '70	6	3,754
		1970	Preliminary survey		0	1,460
		Cumulative total				5,214
		1970	Field survey	Sept. 8 - Nov. 8, '70	16	
		1970	Explanation of reports	Mar. 18 - 31, '71	4	
		Cumulative total				23,965
		1971	Field survey	Nov. 13 - Dec. 26, '71	5 + (1)	5,349
		1972	Field survey	May 10 - July 12, '72	6	38,932
Cumulative total				44,281		

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
	<p>④ Land survey and investigations for topographic mapping of the Barito River basin. Japan conducted surveys and held discussion on concluding a "Plan of Operation" with the Government of Indonesia. Land surveys including celestial surveys, tide observation, and water level surveys, were conducted as continuations of the 1971 surveys. After the survey team returned to Japan, it conducted aerial triangulation in Japan.</p> <p>⑤ Supplementary and preparatory surveys, mapping and printing operations for the above project, presentations, explanations, and reports regarding printed maps. Mapping, supplemental and on-site preparatory surveys, transcribing, and printing continued to be done after the aerial photography, controlling-point surveys, and aerial triangulation done in fiscal year 1972. The mapped area eventually covered 19,300 km², with an additional area (approx. 2,500 km²) that includes Banjarmasin on the western boundary of the previously designated area (as requested by the Indonesian side). The finished maps were presented and explained on site in June of 1974.</p>	1972	Field survey	June 27 - July 11, '72	2	71,286
		1972	Field survey	Aug. 13, '72 - April 1, '73	32	
		1973	Field survey		0	120
		Cumulative total				71,406
		1973	Field survey	Aug. 20 - Oct. 3, '73	11	119,772
		1973	Field survey	Jan. 28 - Feb. 26, '74	4	
		1974	Explanation of reports	June 30 - July 6, '74	3	14,539
		Cumulative total				134,311
Fisheries promotion project survey	Feasibility survey on the fisheries promotion projects in Sabang, Kundur, Bunut, and Kupang	1970	Field survey	July 25 - Sept. 10, '70	6	13,441
		1970	Explanation of reports	Dec. 2 - 15, 1970	3	
		1971	After care (survey)	June 26 - July 11, '71	2	2,221
		Cumulative total				15,662
Urar River dredging work project survey	Feasibility survey on the project to dredge alluvial deposits in the estuary parts of the Urar River in northern Sumatra for preventing disaster due to flooding	1970	Field survey	Sept. 29 - Nov. 7, '70	6	16,173
		1970	Explanation of reports	Mar. 25 - 31, '71	2	
		Cumulative total				16,173

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Survey on Ular River overall improvement project	The Ularu River originates near Toba Lake in northern Sumatra and flows to the Strait of Malacca through northern Medan. Because the riverbanks are unstable, frequent flooding has caused great damage in this area. Consequently, the Government of Indonesia issued an urgent request to Japan for a flood protection project survey. Japan then conducted a feasibility survey. As recommended by the survey, flood banks and other protective structures were built in the center of the estuary by using the grant aid provided by Japan. The Government of Indonesia then requested that Japan conduct a survey to determine a comprehensive plan for river improvement, including river embankment work, irrigation work, sandbag embankments. A preliminary survey was conducted in fiscal year 1975, then a survey on establishing a master plan was conducted in fiscal year 1976. A feasibility survey on a river improvement plan (for 40km) and irrigation and drainage planning for 18,500 ha (in the river's delta region) were also conducted.	1975	Preliminary survey	Mar. 7 - 31, '76	7	6,223
		1976	Field survey	July 29, '76 - March 24, '77	35	128,347
		1977	Field survey	Aug. 15, '77 - Feb. 10, '78	27	150,420
		1978	Explanation of reports	July 23 - Aug. 2, '78	7	54,824
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
"Brantas" River water resources development survey	This project intended to collect and analyze basic data on water quality, weather patterns, etc., to determine a comprehensive development plan for the "Brantas" river. A flow distribution plan was determined for both high and low water-level flows. A survey was conducted for the irrigation project. Individual projects were also selected.	1971	Field survey	Aug. 24 - Dec. 15, '71	5 + (2)	30,614
		1972	Explanation of reports	Aug. 7 - 24, '72	2	27,582
		1972	Field survey	Aug. 23 - Dec. 20, '72	8	
		1973	Explanation of reports	May 7 - 16, '73	3	3,878
		Cumulative total				62,074
Survey on coastal service ships	This project was to obtain the latest basic data on serviceable ships to determine a comprehensive plan for the marine transportation industry. NOTES: 1. An eight-member team was dispatched for the Expert Adviser Dispatch project (from Aug. 25 to Nov. 26, 1971) to examine coastal service ships. 2. Experts for the marine transportation industry project were dispatched for the Technical Adviser Dispatch Project as listed below. Ten advisers in fiscal year 1970, seven advisers in fiscal year 1971, two advisers in fiscal 1972, three advisers in fiscal year 1973, three advisers in fiscal year 1974, four advisers in fiscal year 1975, five advisers fiscal year 1976.	1971	Field survey	Aug. 25 - Nov. 20, '71	4	8060
		Cumulative total				8060
Surabaya River improvement project survey	Determination of project, and final report on irrigation and drainage related to Surabaya River	1971	Field survey	Dec. 21, '71 - Mar. 19, '72	13	34,263
		1972	Explanation of reports	Nov. 26 - Dec. 16, '72	6	38,688
		1972	Explanation of reports	Mar. 4 - 13, '73	4	
		Cumulative total				72,951

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Research conducted on a consignment basis for the "Lampung" province development project survey	This project intended to establish the basic concepts for technical cooperation by collecting and collating basic information data on the agricultural development in "Lampung" Province. The Agricultural Development Foundation was asked to complete and compile the research results. Reports: 3 volumes 1. List of available basic data 2. Basic survey on the feasibility of agricultural development through corn production 3. Records of the "Ranpon" development research group	1971	Project study	Work done in Japan only	-	3,461
		Cumulative total				
Basic plan survey on economic development	1. Economic forecasting using macro-model; 2. study of the feasibility of exporting manufacturing industry products; 3. basic survey on an analysis of the Japanese market as an export market and; 4. a long-term economic forecast. International joint research with the Harvard Group and others (request made to IDC for consigned investigation) The survey was conducted in fiscal year 1972, and the results were reported to the Government of Indonesia in July 1972. The survey was conducted in fiscal year 1973, and the results were reported to the Government of Indonesia in July 1973. The survey was conducted in fiscal year 1974, and the results were reported to the Government of Indonesia in July 1974. The survey was conducted in fiscal year 1975, and the results were reported to the Government of Indonesia in July 1975. The survey was conducted in fiscal year 1976, and the results were reported to the Government of Indonesia in July 1976.	1971	Field survey	Feb. 14 - Mar. 31, '72	6	9,117
		1972	Field survey	April 1 - 5, 1972	(2)	
		Cumulative 1972	Field survey	Aug. 16 - Sept. 13, '72	5 + (1)	24,627
		1972	Explanation of reports	Feb. 21 - 26, '73	3	
		Cumulative total				33,744

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of staff members	Expenditures (1000 yen)
Solo River basin development plan survey	The Solo River basin total development plan was determined and surveys were conducted to determine the priorities of each project. A detailed on-site field survey was then conducted with final drafts being prepared. Surveys were conducted to establish a comprehensive development plan for the Solo River basin, and to determine the priorities of each project. The observations and investigations needed for collecting and analyzing available data (and data yet to be collected) were carried out in fiscal year 1972.	1972	Field surveys	May 10, '72 - Mar. 31, '73	17	91,290
		Cumulative total				91,290
	The main goals of this project were to achieve greater use of water from the Solo River basin, to provide flood protection, to establish a proper division of the work force, and to increase the living standard of local residents by considering the participation of related secondary and tertiary industries. A comprehensive development project for the above area was requested in the second five-year economic development project (1974 to 1978). A field survey was conducted in fiscal year 1972, and a basic project for the comprehensive development of the Solo River basin was prepared on-site. This was reported and explained to the Government of Indonesia in fiscal year 1973.	1973	Field survey	Apr. 1, '73 - Jan. 31, '74	(1)	108,497
		1973	Field survey	Apr. 2, '73 - Mar. 25, '74	19	
		Cumulative total				108,497
	In fiscal year 1974, topographic maps were prepared and assistance was given on boring operations as part of an after care survey conducted for this project survey. The master plan report was presented to the Government of Indonesia in July of 1974.	1974	After care survey	Nov. 19, '74 - Mar. 18, '75	4	3,904
		Cumulative total				3,904
"Unpu Punguban" area agricultural development project survey	A feasibility survey on an irrigation plan for the "Way Pengubuan" area, and a preliminary survey on the "Way Rarem" area, were conducted. After the field survey and the compilation/completion work in Japan were completed in fiscal year 1972, work continued as reports were submitted to the Government of Indonesia in fiscal year 1973. Then, some reports were modified before a final report was submitted to the Government of Indonesia.	1972	Field survey	Aug. 2 - Sept. 20, '72	7	20,452
		1973	Explanation of reports	May 20 - 31, '73	2	1,681
						22,133

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of staff members	Expenditures (1000 yen)
Housing development project survey	<p>This survey was conducted on various problems regarding the systematic provision of abundant low-cost housing to cope with the growing populations of Jakarta and Surabaya. The principles of future technical cooperation were also determined.</p> <p>A field survey was conducted in fiscal year 1972, and some survey-related work completed in Japan. The final report was presented and explained to the Government of Indonesia in fiscal year 1973.</p> <p>NOTE: One urban housing section specialist and two housing development experts were dispatched in fiscal year 1974 for the Technical Adviser Dispatch Project.</p>	1972	Preliminary survey	Dec. 4 - 24, '72	5	4,039
		1972	Preliminary survey	Feb. 4 - 24, '73	3	
		1973	After care survey	July 16 - 22, '73	2	728
		Cumulative total				4,767
Belawan port construction project survey	<p>Preliminary feasibility surveys were conducted on determining the repairs and restoration to be done in the project for improving Belawan port, located in northern Palau Sumatera (Sumatra Island), and on plans for future port expansion.</p>	1972	Preliminary survey	Feb. 27 - Mar. 13, '73	2	1,272
		Cumulative total				1,272

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of staff members	Expenditures (1000 yen)
Survey on Jakarta telephone network expansion project	<p>In fiscal year 1972, a preliminary survey was conducted before implementing a feasibility survey on the telephone network expansion and plans for improving the Jakarta metropolitan area. A "Scope of Work" proposal was then prepared.</p> <p>Jakarta, the capital of the Republic of Indonesia, is a large, modern city with a population of approximately 4.7 million. The construction of a telephone network, Jakarta's main artery for exchanging information, was unfortunately delayed, however. With only 45,000 subscribers, the network was in a very bad situation. This project intended to study emergency measures to eliminate problems; and to establish a long-term expansion plan for the telephone network, and to set up a facility plan for each fiscal year.</p> <p>In fiscal year 1974, demand estimation and traffic estimation surveys were conducted as part of an ongoing on-site survey. During fiscal year 1975 to 1976, the telephone stations to be put into service were designed, the long-term plans for facilities were outlined, and the second five-year plan was established.</p>	1972	Preliminary survey	Mar. 8 - 21, '73	3	1,268
		1973	Field survey	Aug. 20, '73 - Mar. 31, '74	7	50,310
		1973	Field survey	Dec. 3 - 11, '73	1	
		1974	Field survey	Apr. 1 - Mar. 31, '75	(7)	120,092
		1974	Field survey	May 8 - 23, '74	1	
		1975	Field survey	Apr. 1 - Aug. 20, '75	(7)	
		1975	Field survey	June 6 - Aug. 20, '75	2	75,606
		1975	Explanation of reports	Mar. 11 - 24, '76	5	
		Cumulative total				
Survey on rapid railway project	<p>A model line was selected for introducing a rapid railway system to Java. The current conditions of facilities were investigated, as was the vibration of rolling stock during running. The subsidence of track and horizontal pressure were measured in preparation for introducing a high-speed railway system, and a report was prepared for a plan drawn up for improving track conditions, etc.</p>	1973	Field survey	June 4 - July 4, '73	9	15,594
		Cumulative total				
Jakarta - Merak road project survey	<p>Western Java is the political and economic center of Indonesia. A sharp increase in traffic was expected due to the rapid industrialization of Tangerang (located 20 to 30km west of Jakarta) and the large-scale agricultural development in "Lampung" (southern part of Sumatra). A feasibility study was conducted regarding a plan to improve approximately 120km of road between the capital city of Jakarta and "Merak" (located at the westernmost point of Java).</p>	1973	Field survey	Sept. 20 - Oct. 9, '73	8	36,672
		1973	Explanation of reports	Jan. 14 - Feb. 9, '74	4	
		1974	Explanation of reports		0	2,596
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of staff members	Expenditures (1000 yen)
Central Java tourism development project survey	<p>The T.D.C. report (prepared by the Government of the Netherlands) was reviewed to make effective use of three historical sites (Borobudur, "Prambanan" and "Dieng" for promoting tourism. It was hoped that by reviving the economy of the above areas through increased tourism, more jobs could be created. A master plan was prepared for the infrastructure and facilities for the three areas above, and the accompanying preliminary engineering survey was conducted.</p> <p>Borobudur (a historic Buddhist site) and "Prambanan" and "Dieng" (historic Hindu religious sites) in central Java are considered important resources for tourism, much like such natural tourist attractions as the Merapi volcano in the same area. These and other precious cultural, artistic, and historical resources, must be protected when implementing systematic development. The conformity of local development in central Java (considered the least developed area in Java) had to be maintained. The survey was conducted to determine an appropriate tourism development plan.</p> <p>The master plan determination survey was conducted in fiscal year 1973.</p> <p>In fiscal year 1974, a field survey was conducted as part of the feasibility survey for this project.</p> <p>The final report was prepared and presented in fiscal year 1975.</p>	1973	Field survey	Sept. 25 - Nov. 6, '73	15	24,005
		1973	Explanation of reports	Dec. 9 - 15, '73	2	
		1974	Explanation of reports	May 8 - 17, '74	2	
		1974	Field survey	Feb. 9 - Mar. 14, '75	13	45,451
		1975	Explanation of reports	May 2 - 15, '75	3	
		1975	Field survey	July 1 - 15, '75	3	96,213
		1975	Explanation of reports	Sept. 25 - Oct. 6, '75	3	
		1975	Explanation of reports	Dec. 17 - 26, '75	2	
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Way Rarem Abung area irrigation project survey	1. Feasibility survey This survey was to establish survey plans for fiscal year 1974 and subsequent years, and included a basic survey on irrigation plans for Way Rarem Abung area in "Lampung" Province (Sumatra), and determining the basic development concepts for the area. Data was collected on-site and a field survey to outline the above area was conducted. The survey team worked closely with the Government of Indonesia.	1973	Field survey	Oct. 11 - Nov. 24, '73	7	10,166
		1973	Explanation of reports	Mar. 3 - 10, '74	2	
		Cumulative total				10,166
	2 Topographic survey As a result of the pre-feasibility survey on the Way Rarem Abung area (about 128,000 ha), conducted through Japanese technical cooperation during October and November of 1973, the Government of Indonesia requested Japan's cooperation for conducting a feasibility study on approximately 35,000 ha in the southern area, where project activity was expected to begin. According to this request, a 1:10,000 topographic map of a 375 km ² area was prepared (that excluded areas for which Indonesia had already prepared maps) using land surveys and available aerial photographs. At the same time, comprehensive work regarding irrigation, soil research, and the rough determination of routes was done to facilitate the next feasibility survey. The 1:5,000 topographic map prepared by the Indonesians was also examined.	1974	Field survey	Sept. 10, '74 - Mar. 18, '75	18 + 1	64,304
		Cumulative total				64,304
	3 Feasibility survey Another feasibility survey on a 35,000 ha area was conducted immediately after preparing the topographic map in 1974.	1975	Field survey	June 23 - Sept. 22, '75	11	70,587
		1975	Explanation of reports	Feb. 3 - 12, '76	...	
		Cumulative total				70,587
Jakarta fishing port and fish market improvement project survey.	A feasibility study on the "Pasar Ikan" fishing port and fish market improvement project in Jakarta was conducted to modernize distribution facilities for coping with the anticipated growth of Jakarta and the surrounding area in the next ten years, and to promote Indonesian fisheries. A preliminary survey on reconciling the opinions of all related organizations and governments was conducted, and data was collected. A feasibility survey was conducted immediately after this preliminary survey.	1973	Field survey	Nov. 22 - Dec. 5, '73	4	13,278
		1973	Field survey	Feb. 6 - Mar. 7, '74	10 + (3)	
		1974	Field survey		0	1,919
		Cumulative total				15,197

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Hydrographic survey of Lombok and Makassar straits	In fiscal year 1973, this project was selected as being urgent on the IGGI list to improve and secure the safety of coastal shipping, and the safety of large oceangoing cruisers passing through the Lombok and Makassar straits. A technical conference (preliminary survey) was held, and a hydrographic survey followed. A waterway survey and an on-site survey were conducted for preparing charts and maps.	1973	Explanation of the preliminary survey	Nov. 26 - Dec. 1, '73	5	19,698
		1973	Field survey	Feb. 15 - April 2, '74	6	
		1974	Field survey		0	6,718
		1975	Field survey	May 6, '75 - Feb. 15, '76	28	114,929
		Cumulative total				141,345
Electronic navigation aid system completion project survey	Because Indonesia is located near to many international shipping lanes, the providing of complete nautical markings is essential. This project intended to provide a full line of electronic assistance for navigation (i.e., "Dekka," beacons, and transmitters) as part of the second five-year project. This project followed the completion of light wave markers in the first five-year project. A master plan was prepared.	1974	Preliminary survey	Dec. 2 - 15, '73	5	2,245
		Cumulative total				2,245

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Central south Sulawesi water resources total development project survey	The Government of Indonesia requested that Japan conduct a survey to determine the feasibility of a development project, mainly involving the water resources of the river basin area (approximately 11,000 km ²) that includes the "Walanae," "Bira" and "Sentanae" Rivers near Lake "Tempe" in the central area of southern Sulawesi Province. For this request, Japan dispatched a preliminary survey team in fiscal year 1973. Irrigation specialists were dispatched in fiscal year 1976, and collected irrigation data needed to determine a plan. The topographic map preparation survey and aerial photography needed to determine a basic plan was initiated in fiscal year 1976. In fiscal year 1977, survey work (from an on-site levelling survey to the machine-mapping needed to prepare topographic maps) was done to continue the work begun in the previous survey. The topographic maps being prepared from 1977 were completed in fiscal year 1978. On-site surveys were also initiated and included the collection to necessary data on hydrology, water utilization, soil research, the local economy, irrigation, drainage, flood control, sandbag embankments, and coastal fisheries to determine a basic plan.	1973	Preliminary survey	Jan. 30 - Feb. 28, '74	10	8,231
		1974	Explanation of reports	June 10 - 19, '74	3	3,160
		1976	Field survey	Dec. 6, '76 - Mar. 27, '77	10 + (1)	78,973
		1977	Field survey	July 17, '77 - Feb. 11, '78	20	77,197
		1978	Field survey	Sept. 7, '78 - Mar. 31, '79	28	370,381
		1979	Field survey	April 1 - June 30, '79	12 + (10)	144,165
		1979	Field survey	Dec. 10 - 19, '79	5	
		Cumulative total				682,107
		"Wonogiri" dam construction project survey	1 Dam construction project A feasibility study was conducted on flood control, the generation of electricity, irrigation, the goals of the "Wonogiri" multi-purpose dam construction project, (a top-priority project selected from among projects for dam construction and river improvements), and assistance was provided by Japan regarding the master plan for developing the Solo River basin. In fiscal year 1974, an on-site survey was conducted and an interim report was presented. An interim report on the surveys conducted for this project was prepared on-site by mid-April. The report was then presented and discussed with the Government of Indonesia. The major items of work done in this survey are explained above.	1974	Field survey	Nov. 25, '74 - Mar. 31, '75
1975	Field survey			April 1 - 23, '75	(9)	
1975	Field survey			April 9 - 23, '75	4	69,013
1975	Explanation of reports			Aug. 21 - 29, '75	3 + (1)	
Cumulative total						136,360

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
	<p>2 Irrigation and river improvement project</p> <p>A feasibility study on river improvements and irrigation plans was conducted when the priority survey on power stations and the main body of the "Wonogiri" multi-purpose dam was conducted during fiscal years 1974 and 1975. A more accurate feasibility study was conducted shortly after the previous survey. In fiscal year 1976, the draft plan was explained to and discussed with the Indonesian side. The final report was then prepared and presented to Indonesia.</p>	1975	Field survey	Jan. 26 - Mar. 31, '76	20	44,229
		1976	Field survey	Apr. 1 - May 9, '76	(15)	
		1976	Field survey	May 10 - 19, '76	3	120,550
		1976	Field survey	Aug. 26 - Sept. 5, '76	7	
		Cumulative total				
After-care survey for river improvement project related to "Wonogiri" multi-purpose dam construction on the Solo	<p>The previous feasibility survey was reviewed, and the construction project stages were examined and compared to resolve the problems posed by transporting housing facilities before the construction for river improvements could be started. This was done in conjunction with the feasibility survey conducted for the "Wonogiri" multi-purpose dam, located upstream on the Solo River. A site survey was also conducted to select the best-possible project plan, then a report was prepared.</p>	1978	After care survey	Nov. 10 - Dec. 5, '78	2	6,794
		Cumulative total				
Total development project survey	<p>1 Eastern Java Province</p> <p>This survey was conducted to determine the development project to be undertaken in eastern Java Province in the Republic of Indonesia. Although Eastern Java Province is densely populated, government officials had done no planning to achieve the area's full development potential. Individual projects related to developing this potential have been completed due to assistance from Japan, the U World Bank, but a comprehensive project was needed to integrate these individual projects. This survey was conducted to determine the contents of such a comprehensive development project. Preliminary discussions with the Indonesian side were held in 1974, and procedures to be used in conduct the survey were studied. This survey was conducted in fiscal year 1975.</p>	1974	Preliminary survey	Mar. 25 - April 3, '75	2	15,126
		1975	Field survey	July 9 - Aug. 26, '75	10	26,114
		1975	Field survey	Dec., '75	1	
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
	2. Central Java Province and Yogyakarta Special District project to investigate the feasibility of developing the economic potential of central Java Province was investigated, and local development projects were determined. A scope of P/S, planning for the P/S survey project and discussion of P/S. A feasibility survey was conducted based on the results of the preliminary survey in July of 1976 to improve facilities and provide funds for the project. A report was prepared and explained on-site in fiscal year 1976.	1976	Preliminary survey	Oct. 17 - 29, '76	3	
		1976	Field survey	Jan. 9 - March 26, '77	13	39,550
		Cumulative total				
Survey for seamen's training school building project	Based on the request issued from the Government of Indonesia, this basic survey was conducted before cooperation without repaying obligation was provided, for the project to build a seamen's training school in the Ujung Pandang area of Indonesia. By using the basic items planned, a basic design report was prepared with data confirmed by the on-site survey. The report was explained to the Government of Indonesia while a supplementary on-site survey was being conducted during the rainy season.	1975	Survey for Grant Aid (preliminary survey)	May 25 - June 18, 1975	5	5,809
		Cumulative 1977	Survey for Grant Aid	Oct. 19 - Nov. 15, 1977	9	37,177
		1977	Survey for Grant Aid	Feb. 20, 1977 - Mar. 4, 1978	6	
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Central eastern Java road improvement project survey	The current conditions of the subject area related to the project to improve the network of roads (totaling about 8,000 km) in the central area of eastern Java Province in Indonesia were investigated as stipulated by the scope of F/S, planning for the F/S survey project, and discussion of S/W. A feasibility survey was conducted based on the results of the preliminary survey (in July of 1975) on improving bridges and paved roads for high-priority routes. An interim report was prepared and explained on-site in fiscal year 1976.	1975	Preliminary survey	July 2 - 19, '75	5	3,169
		1975	Field survey	Nov. 24, '75 - Jan. 18, '76	18	106,017
		1975	Field survey	Mar. 31 - Apr. 6, '76	1	
		1976	Field survey	Apr. 25 - May 4, '76	8	52,072
		1976	Field survey	Aug. 19 - 26, '76	7 + (1)	
		Cumulative total				
Basic plan determination survey for Merapi volcano sandbag embankments	The Government of Indonesia requested Japan's technical cooperation for a survey to determine a basic plan for sandbag embankments and to establish overall measures for maintaining soil conditions and preventing uncontrolled lava flows in case the Merapi volcano (30km north of Yogyakarta in central Java Province) erupted. According to this request, a preliminary survey was conducted in fiscal year 1975. Based on the results of the preliminary survey done in fiscal year 1975, a topographic map and land utilization map were completed in fiscal year 1976, and became the basic data used in the survey. The full-scale survey took three years to complete. A hydrological survey, a study on river soil conditions, a study on landslides, and an investigation of disasters were conducted in fiscal year 1977 to determine a disaster-prevention plan. In fiscal year 1979, the basic data was collected in continuation of the work done in fiscal year 1977. Social and economic research were also done to determine a master plan for maintaining the safety of soil conditions, and preventing uncontrolled lava flows in case the Merapi volcano erupted. This data was studied and carefully analyzed to prepare an interim report that included the outline of a disaster-prevention facilities plan using a model case involving major rivers. The final report was prepared in fiscal year 1980.	1975	Preliminary survey	Feb. 2 - 26, 1976	6	4,892
		1976	Field survey	July 29 - Nov. 18, 1976	14	40,960
		1977	Field survey	June 20 - Feb. 10, 1978	27	155,626
		1978	Field survey	June 12, 1978 - Mar. 18, 1979	30	122,934
		1979	Field survey	June 4 - Aug. 2, 1979	7	80,970
		1980	Explanation of reports	Jan. 31 - Feb. 9, 1980	6	
		1980			0	152
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Banjarmasin port development project survey	The Government of Indonesia intended to make Banjarmasin the center of the development project planned for the southern and central districts of Kalimantan, and requested that Japan conduct a survey for this project. The final report on this survey was presented and explained in fiscal year 1976. Analysis and changes to the report were based on comments made from the Indonesian side, which were formulated based on the previous explanation of this report. A final report was then prepared and presented to the Government of Indonesia.	1975	Preliminary survey	Feb. 3 - Mar. 1, '76	5	5,246
		1976	Field survey	July 15 - Dec. 30, '76	18	118,180
		1977	Field survey	Apr. 25 - May 4, '77	4	3,808
		1977	Field survey	July 31 - Aug. 5, '77	1	30,153
		Cumulative total				
Central Java (Pekalongan) forestry resources survey	The Government of Indonesia was studying the possible uses of pine trees taken from national forests of Pekalongan (in central Java Province) to provide a steady supply of raw materials for a pulp and paper mill to be built in this province. In fiscal year 1976, the Government of Indonesia requested Japan's technical cooperation for conducting forestry resource surveys to determine the conditions of forest resources and to study logging methods. According to this request, Japan conducted a preliminary survey, including aerial photography, mapping, and forest analysis. It also examined the logging plan in fiscal year 1976. A report was prepared and presented in fiscal year 1977.	1976	Preliminary survey	Nov. 29 - Dec. 18, '76	4	45,190
		1976	Field survey	Dec. 6 - Mar. 31, '76	12	
		1977	Field survey		0	549
		1977	Field survey	May 29, '77 - June 6, '78	3	31,852
		1977	Field survey	Nov. 29, '77 - March, '78	4	19,354
		1978	Field survey		0	454
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Jakarta ring road project survey	The Government of Indonesia was improving roads to reduce traffic in the capital city of Jakarta, and planned to construct a ring-type highway that connects three local roads and city streets in Jakarta. The Government of Indonesia requested Japan's technical cooperation for the above project and for conducting a survey that would include a study of roads to be used as toll roads. Based on this request, a preliminary survey was conducted in fiscal year 1976. Soon after this, a feasibility survey was done in continuation of the above. A draft final report was prepared, and the report was explained and discussed with the Indonesian Government officials involved.	1976	Preliminary survey	Dec. 6 - 25, '76	6	25,686
		1976	Field survey	May 17 - 31, '77	13	
		1977	Field survey	May 3 - 12, '77	5	19,405
		1977	Field survey	Nov. 6 '77 - Mar 2, '78	12	99,012
		1978	Field survey	May 19 - June 10, 1978	5	8,039
		1978	Field survey	Nov. 15 - 22, 1978	3	
		Cumulative total				
Infrastructure improvement survey for western Sumatra and northern Sumatra around Lake Toba	The Government of Indonesia planned to develop tourist attractions, while preserving the natural conditions of the western Sumatra area (centered around Padang) and of the northern area (centered around Lake Toba), as part of its local tourism promotion project. The Indonesian Government requested technical cooperation from Japan for this survey. A preliminary survey was conducted in fiscal year 1976, and a full-scale survey was completed in fiscal year 1977 to prepare a master plan for promoting tourism and completing the accompanying infrastructure. A progress report was prepared, then explained and discussed with Indonesian Government officials. A final report was subsequently prepared and presented.	1976	Preliminary survey	Dec. 8 - 28, 1976	8	9,601
		1977	Field survey	May 16 - July 14, 1977	18	45,600
		1977	Field survey	Oct. 31, 1977 - Mar. 5, 1978	15	132,668
		1978	Field survey	May 14 - 20, 1978	3	1,287
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Expansion project survey for Bitung port on Sulawesi (Celebes) Island	The port of Bitung is located at the northernmost end of Sulawesi Island. As the seventh-busiest foreign-trading port in Indonesia, Bitung plays an important role as a port of call for the Japan-Australia line. In recent years, however, the amount of cargo handled by this harbour had increased greatly, and existing facilities could not cope with this situation. Consequently, the Government of Indonesia was planning to expand Bitung port as part of its second five-year plan, and requested that Japan cooperate by conducting a survey. According to this request, Japan conducted a preliminary survey and a feasibility survey in fiscal year 1977.	1976	Preliminary survey	Feb. 7 - 16, 1977	3	2,914
		1977	Field survey	June 19 - Aug. 26, 1977	7	13,558
		1977	Field survey	Oct. 11 - 20, 1977	3	82,454
		1978	Field survey		0	62
		Cumulative total				
"Riam Kanan" irrigation project survey	The Government of Indonesia planned an irrigation project for "Riam Kanan," involving about 30,000 ha of land and based on the Barito River total development project (1971), which had been implemented with Japan's technical cooperation. The Indonesian Government requested Japan's cooperation in conducting a survey for the above irrigation project. After the request was received by Japan, a preliminary survey was conducted in fiscal year 1977. This survey was continued to prepare 1:5000 scale topographic maps to be used for the subsequent full-scale survey. A feasibility study was conducted in fiscal year 1978, and a report was prepared and presented to the Government of Indonesia.	1977	Preliminary survey	July 13 - Aug. 12, 1977	7	8,902
		1977	Field survey	Dec. 1 - 11, 1977	16	35,179
		1978	Field survey		0	163
		1978	Field survey	July 2, 1978 - Feb. 15, 1979	21	185,433
		1979	Field survey		0	18,803
		Cumulative total				
Semarang port improvement project survey	The port of Semarang, situated near central Java, is the third-largest port with facilities for foreign trade on the island. The Indonesian Government emphasized the industrialization of the central Java Province in its third five-year plan to increase employment. A major problem hindering this goal involved the deteriorating facilities of Semarang port. The Indonesian Government requested Japan's technical cooperation to conduct a survey on a project to improve the port of Semarang. Japan conducted an on-site survey based on the above request, then prepared a draft final report. This report was explained on-site. In fiscal year 1978, a survey team carried out the preparatory work for the final report, based on the explanation and discussions held on the draft final report of fiscal year 1977. This team also explained the final report to the Government of Indonesia.	1977	Field survey	Aug. 23, 1977 - Mar. 28, 1978	17	80,945
		1978	Field survey	July 2 - 8, 1978	2	20,941
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Shipbuilding industry promotion project survey	The shipbuilding industry was previously regulated by the Marine Transportation Bureau, although this function was subsequently transferred to the Ministry of Industry. The Government of Indonesia took this opportunity to request that Japan determine a comprehensive plan for promoting Indonesia's shipbuilding industry. Japan determined a comprehensive plan for promoting shipbuilding. This plan included the construction of a new shipbuilding yard to strengthen the shipbuilding industry and ship repair capabilities in Indonesia after conducting a detailed survey (primary survey) on the current conditions in related Indonesian industries. In fiscal year 1978, Japan explained its primary survey report, and held supplementary discussions on secondary surveys. These secondary surveys included an investigation of major shipbuilding yards, a survey on the distribution of materials, equipment, and parts, a survey on the levels and numbers of skilled workers who form the backbone of the industry, and surveys on the shipbuilding industry from the legal standpoint with consideration given to conventional systems (including financial aspects). Reports on promoting Indonesia's shipbuilding industry were also prepared.	1977	Field survey	Sept. 23 - Nov. 6, 1977	8	20,156
		1978	Field survey	May 30 - Dec. 23, 1978	16	48,560
		1979	Field survey		0	69
		Cumulative total				68,785
Southern Sumatra (Musi River) forestry resources survey	The Musi River in southern Sumatra Province is an important source of water, both for marine transportation and for agricultural use. The many grassy fields upstream, however, posed problems regarding river basin safety. The Forestry Bureau of Indonesia, therefore, requested Japan's technical cooperation for a forestry resources survey to collect data needed for studying and planning forest area management, and for preparing a river basin control project for the upper Musi River area. Based on this request, Japan conducted a preliminary survey and aerial photographic operations in fiscal year 1977. Mapping operations and forest analysis work were done in fiscal year 1978, and assistance for a forest survey, forest analysis, and establishing a river basin control project was provided in fiscal year 1979. In 1979, Indonesia requested that Japan conduct a detailed survey to determine the total amount of forest resources and provide a plan as a preliminary step before conducting a forest survey. In fiscal year 1979, aerial photography was done at the survey site and the locations of villages and non-forested areas were determined. In this survey, aerial photography was done to determine the total amount of forest resources, while topographic mapping and the preparation of a forest management and a river basin control project were also done.	1977	Field survey	Nov. 29, 1977 - Mar. 21, 1978	4	21,518
		1978	Field survey	May 20, 1978 - Mar. 18, 1979	18	127,135
		1978	Field survey	Apr. 11, - June 9, 1979	1	
		1979	Field survey		0	54,825
		1979	Field survey	June 21, 1979 - Feb. 11, 1980	23	141,140
		1980	Explanation of reports	Aug. 25 - 31, 1980	4	2,901
		Cumulative total				347,519

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Hospital improvement project survey	Surveys were conducted on the following topics related to a project to improve 20 hospitals in Northern Sulawesi, Southern Sulawesi, and Northern Sumatra. 1. Current conditions of medical services, and future plans, 2. conditions of existing medical equipment and materials, and future plans, 3. current conditions of hospital facilities and equipment, and future plans, 4. a full-scale survey on the need and feasibility of improving the infrastructure required to improve and expand existing medical treatment capabilities, and on related equipment and materials. A report on the above was then prepared and presented to the Government of Indonesia.	1978	Field survey	April 7 - Sept. 13, 1978	12	1,874
		Cumulative total				1,874
Survey on development project for the southern coastal area of eastern Java	The development of the southern coastal area of eastern Java has been delayed longer than any other area in Eastern Java Province. The causes of this delay are assumed to be: extreme environmental conditions (including poor soil and water shortages), and the pending improving of roads and harbours. Items 1 to 4 of the following five items were studied by an on-site survey and in Japan, and a development plan was determined in fiscal year 1978. 1. various measures relative to agriculture, industry, mining, and fisheries, etc. 2. social capital that should be improved, 3. setting priorities for the above social capital, 4. selecting first-priority social capital, and 5. a pre-feasibility survey on the above social capital.	1978	Preliminary survey	July 27 - Aug. 11, 1978	7	8,658
		1978	Field survey	Nov. 19, 1978 - Jan. 31, 1979	13	57,583
		1979	Field survey	Nov. 19, 1979 - Feb. 24, 1980	14	47,084
		1980	Field survey		0	213
		Cumulative total				113,538
Borobudur and "Prambanan" national historic site park improvement project survey	The Government of Indonesia planned to build national parks at historical sites. In particular, the historical site at Borobudur (Buddhist) and "Prambanan" (Hindu) were selected. The Indonesian Government wanted to include this plan in its third five-year plan, which began in 1979. Therefore, Indonesia requested that Japan review available survey results, estimate the total construction costs, and determine a detailed plan as a preliminary step before designing a work plan. In fiscal year 1978, aerial photography was done for a survey on the locations of unknown and non-excavated historical sites. On-site surveys were conducted to determine project details, while topographic mapping and the preparation of an interim reports and a rough final report were also done.	1978	Field survey	July 13, 1978 - Mar. 31, 1979	46	149,885
		1979	Field survey		0	10,967
		Cumulative total				160,852

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	
Construction project survey for nurse training facility	The Government of Indonesia planned to complete construction of 150 schools to be used to train nurses by 1983. Therefore, Japan was requested to provide technical cooperation and grant aid to carry out this project. In response to this request, Japan agreed to provide technical cooperation and grant aid for a training center in the Ujung Pandang area for nursing instructors to be assigned to the training schools, and for a nurse training development center in Jakarta where research would be conducted and where the curricula and training manuals would be prepared. Japan conducted the necessary on-site survey for the above projects, and prepared basic design reports at the same time.	1978	Survey for Grant Aid (Preliminary survey)	Aug. 8 - 22, 1978	6		
		1978	Survey for Grant Aid	Oct. 22 - Nov. 15, 1978	4	38,681	
		1978	Survey for Grant Aid	Feb. 18 - 27, 1979	4		
		1979	Survey for Grant Aid		0	26	
		Cumulative total					38,707
"Mulawarman" University tropical forest plantation research center: Basic design survey	In recent years, the tropical rain forests of Indonesia have undergone rapid development, and afforestation activities have expanded, particularly in the Kalimantan area. However, many problems related to afforestation technology remain unsolved. Consequently, research on the overall technology used for tropical rain forest renewal needed to be promoted. The Government of Indonesia requested that Japan provide technical cooperation and grant aid for constructing a tropical rain forest plantation research center at "Mulawarman" University (located in Samarinda in East Kalimantan Province). The Government of Japan conducted a basic design survey based on this request, and prepared a report. The report was presented and explained to Indonesian authorities by the team that prepared the report.	1978	Survey for Grant Aid (preliminary survey)	Aug. 8 - 26, 1978	5		
		1978	Survey for Grant Aid	Oct. 29 - Nov. 25, 1978	8	38,353	
		1978	Survey for Grant Aid	Feb. 21 - Mar. 2, 1979	4		
		1979	Survey for Grant Aid	(Work done in Japan)			1,044
		Cumulative total					39,397

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Sunken ship removal project survey	There are many sunken ships in waters near the Republic of Indonesia. In particular, about 180 sunken ships have been reported in major ports (Jakarta, Surabaya, and ten other ports). These sunken ships are not only obstacles to ships passing through this area, but are often cause "dual grounding" accidents. The Government of Indonesia requested Japan's assistance for a sunken ship removal project involving the five ports of Surabaya, Palembang, Ujung Pandang, Padang, and Cilacap. Because the previous survey results and available information were at least ten years old, Japan conducted a preliminary survey to collect new data regarding implementation of the proposed removal operations. Once the intentions of the Indonesian government were clarified, principles were determined for future economic cooperation. In fiscal year 1979, a survey was conducted to determine the basic plan for removing sunken ships, which were obstacles to ships in the area.	1978	Preliminary survey	Feb. 28 - Mar. 9, 1979	4	1,841
		1979	Field survey	Oct. 29 - Dec. 12, 1979	13	72,983
		1979	Explanation of reports	Feb. 20 - 27, 1980	4	
		1980	Explanation of reports		0	159
Balikpapan port improvement project survey	The Government of Indonesia had been planning to improve the port of Balikpapan. This natural estuary harbor is situated at the southern end of east Kalimantan. The development of this area was also planned. Indonesia requested Japan's assistance to help develop this project. The contents of the survey included a feasibility study of the harbor construction plan to be completed by 1985, as well as the creation of a master plan to be completed by 2000 fiscal year. A full-scale survey, initiated immediately after the preliminary survey, was conducted in fiscal years 1978 and 1979. In fiscal year 1978, the survey team held discussions with Indonesian organizations, and collected additional information. An on-site report was subsequently prepared. The above matters were also analyzed in Japan.	1978	Preliminary survey	Nov. 27 - Dec. 12, 1978	4	4,347
		1978	Field survey	Feb. 1 - Mar. 24, 1979	6	36,219
		1979	Field survey	May 31 - June 9, 1979	4	59,013
		1979	Explanation of reports	Sept. 20 - 29, 1979	3	
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Medan urban traffic project survey	This survey was conducted to prepare short-term and long-term master plans for improving the urban traffic network to relieve traffic congestion in the city of Medan and the surrounding area. Medan is the cultural and economic center of Sumatra in the Republic of Indonesia. The S/W conference was held, necessary data was collected, and a field survey was conducted in fiscal year 1978. The existing railways are particularly important for industrial development in the area adjacent to the port of Balawan (where the only international port on Sumatra is located), and in Aceh and Asahan. Housing areas are also concentrated along the railway between Medan and Balawan. Therefore, the intended purposes of the project included improving mass-transit railways and solving the traffic problems caused by buses, automobiles, and "becaks," in Medan, as well as creating an urban traffic plan by the year 2000. The draft final report of the short-term plan, and the interim report on the long-term plan were prepared in fiscal year 1979. The final reports on the short-term and long-term plans were prepared in fiscal year 1980.	1978	Preliminary survey	Nov. 9 - 24, 1978	7	5,197
		1979	Field survey	Sept. 10 - Nov. 9, 1979	13	118,308
		1979	Field survey	Oct. 29 - Nov. 10, 1979	3	
		1980	Field survey	July 7 - 13, 1980	6	61,629
		1980	Field survey	Oct. 13 - 18, 1980	8	
		Cumulative total				
Irrigation and drainage construction technology center basic design survey	The Government of Indonesia wanted to urgently improve its agricultural infrastructure as part of its policy to increase self-sufficiency in food production, and has been concentrating on irrigation and drainage projects in vital locations. Indonesia faced a shortage of agricultural engineers, however, and projects involving irrigation and drainage were not advancing smoothly due to construction and work supervision problems. The Government of Indonesia requested technical cooperation and grant aid from Japan to correct the above situation, as well as to help acquire and popularize new technologies, and to increase the level of construction and supervision capabilities. In response to this request, Japan conducted a basic design survey related to the requested technical cooperation and grant aid in November of 1978. The measures to be carried out by the Government of Indonesia were delayed, however, and the project could not be carried out with this cooperation and grant aid in fiscal year 1979. Consequently, the Government of Japan decided to include this project in its budget for fiscal year 1980. The estimated cost for the facility construction project was also greatly affected by the devaluation of the rupiah in November of 1978. The second basic design survey team was dispatched in November of 1979, and the estimated expenditures were reviewed.	1978	Survey for Grant Aid	Nov. 24, 1978 - Dec. 5, 1979	4	10,285
		1978	Survey for Grant Aid	Mar. 5 - Mar. 10, 1979	2	
		1978	Survey for Grant Aid		0	27
		1979	Survey for Grant Aid	Nov. 6 - Nov. 20, 1979	2	3,341
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Upper Komering river basin agricultural development project survey	The Government of Indonesia has been encouraging the migration of people from Java to such outlying territories as the island of Sumatra. With this migration project, the Government of Indonesia has devised a development concept to establish these outlying territories as major food supply bases through their agricultural development. The Government of Indonesia requested cooperation from Japan for agricultural development in the river basin area (located upstream on the Komering River in South Sumatra province) as part of its development concept. Under these circumstances, an S/W was concluded in 1978, and an hydrological survey (105,000 ha), a feasibility survey (36,700 ha), and a pre-feasibility survey (68,300 ha) were conducted in the following three years. The pre-feasibility survey conducted in 1981 was a field survey for the agricultural project, which primarily involved an irrigation development project and hydroelectric dam project for the upstream area of the Komering River.	1978	Preliminary survey	Nov. 26 - Dec. 20, 1978	4	12,132
		1979	Preliminary survey		0	8,205
		1979	Field survey	July 23 - Dec. 17, 1979	16	173,665
		1980	Field survey	July 1, 1980 - Mar. 20, 1981	30	165,911
		1981	Field survey	(preparation of reports and technical expenditures)	0	14,584
		1981	Field survey	June 29, 1981 - Feb. 3, 1982	21	108,340
		1982	Field survey	(preparation of reports)		192
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Jakarta metropolitan telephone network improvement and expansion project survey	In fiscal year 1978, a preliminary survey was conducted on the basic design of a city telephone network in Jakarta, and a third 5-year telephone network expansion project was prepared. In fiscal year 1979, basic data to prepare for the third 5-year telephone network expansion project was collected, and the basic design of a telephone line network for subscribers of the Kotae and Jachinegalae stations in Jakarta was made. In fiscal year 1980, a third 5-year outdoor facilities expansion plan was prepared, and the basic designs of a three-station telephone line network and a relay line network in Jakarta were made. These new activities were included in the final report. A feasibility study was also conducted and a report on the feasibility study was submitted. The development of individual sections of the city telephone network was completed. In March 1981, a feasibility study was conducted to determine the possibility of expanding the city telephone network to the suburbs of Jakarta. A report on the feasibility study was submitted. The study was completed in March 1981, and a report on the feasibility study was submitted.	1978	Preliminary survey	Dec. 4 - 22, 1978	5	3,015
		1979	Field survey	June 16, 1979 - Mar. 7, 1980	11	112,877
		1980	Field survey	June 10 - Oct. 7, 1980	10	113,692
		1980	Explanation of reports	Jan. 13 - 24, 1981	2	
		1981	Explanation of reports		0	575

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Low-cost housing development project survey	In Indonesia's third 5-year project (April, 1979 - March, 1984), Indonesia planned to build 440,000 housing units in three years. The Republic of Indonesia requested that Japan conduct a survey on developing medium-rise, low-cost housing in the suburbs of Jakarta. After the above request was received by Japan, a preliminary survey was conducted in fiscal year 1978, and a full-scale Phase I survey was conducted in fiscal year 1979. This survey included the 1 preparation of an alternate plan for the master development plan of the Cikarang area, and 2 preparation of an alternate design plan for developing medium and low-rise multiple housing units. The results were then compared and evaluated. A feasibility survey concerning the development of low-cost housing in the Cikarang area was conducted (Phase II) in fiscal year 1980 to determine the people who would become tenants, the type(s) of housing to be provided, arrangement plans, ways to improve the infrastructure, and a subsidy system.	1978	Preliminary survey	Feb. 7 - 22, 1979	5	3,434
		1979	Preliminary survey		0	330
		1979	Field survey	Oct. 10 - Nov. 9, 1979	10	65,539
		1979	Explanation of reports	March 11 - 20, 1980	5	
		1980	Field survey	Sept. 28 - Oct. 4, 1980	1	
		1980	Field survey	Oct. 7 - Nov. 5, 1980	3	
		1980	Field survey	Oct. 20 - Nov. 8, 1980	5	118,257
		1980	Field survey	Nov. 3 - 6, 1980	1	
		1980	Field survey	Mar. 4 - 13, 1981	5	
		1981	Field survey		0	106
	Cumulative total					187,666

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Flood control project survey for lower reaches of the Jeneberang River	The Jeneberang River runs through the southern part of Ujung Pandang, the provincial capital of South Sulawesi. This river is subject to frequent flooding which has caused great damage to the city of Ujung Pandang, a cultural and industrial center. This project intended to conduct a survey on ways to improve river flood control and on developing a city drainage system connected to the river. The preliminary survey was conducted in fiscal year 1978. Aerial photography, mapping, field surveys, and work in Japan were done in fiscal year 1979, and an interim report was prepared. The final report was prepared in fiscal year 1980, based on comments from Indonesia regarding the interim report.	1978	Preliminary survey	Feb. 22 - Mar. 11, 1979	5	4,728
		1979	Field survey	June 22 - Oct. 31, 1979	13 + (2)	114,256
		1979	Explanation of reports	Feb. 4 - 10, 1980	5 + (1)	
		1980	Field survey	Jan. 14 - 22, 1981	5	
		1980	Field survey	Feb. 12 - July 11, 1981	11	75,664
		1980	Explanation of reports	April 7 - Aug. 30, 1981	7	
		1981	Field survey	Aug. 24 - 30, 1981	3	
		1981	Field survey	May 22 - 30, 1981	2	111,937
		1981	Field survey	Jan. 5 - 10, 1982	6	
		1982	Field survey		0	369
		Cumulative total				306,954

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Sorong port improvement project survey	A feasibility study was conducted regarding ways to improve the Sorong Port facilities for establishing a long-term plan for Sorong port (to be completed by the year 2000) to cope with increased marine transportation expected to accompany local economic development. This area includes Irian Jaya and part of the Maluku Islands that are served by the Port of Sorong. The study was conducted in 1979 and 1980. The study was completed in 1980. The study was completed in 1980. The study was completed in 1980. The study was completed in 1980. The study was completed in 1980. The study was completed in 1980.	1979	Preliminary survey	Feb. 16 - Mar. 2, 1980	5	6,589
		1980	Preliminary survey		0	541
		1980	Field survey	May 20 - Aug. 9, 1980	8	
		1980	Field survey	Nov. 4 - 13, 1980	3	105,776
		1980	Field survey	Feb. 20 - 28, 1981	5	
		1981	Field survey	(preparation of reports)	0	8,321
		Cumulative total				
Madiun River Survey concerning urgent project for flood control	The Government of Indonesia requested Japan's cooperation in planning a project to reduce the disastrous damage caused in the city of Madiun by flooding of the Madiun River, which runs through central Java. In fiscal year 1979, a river improvement plan was prepared as an emergency measure to reduce flood damage in the lower reaches of the Madiun River (mainly around Madiun City), and a field survey was conducted to evaluate technological and economic feasibility. Analysis work based on field survey results was carried out in Japan in fiscal year 1980.	1979	Preliminary survey	Feb. 8 - 17, 1980	3 + (1)	2,399
		1980	Explanation of reports	Mar. 31 - Apr. 9, 1980	3	24,395
		1980		(Preparation of reports)	0	215
		1980		(Work in Japan)	0	31,137
		1980	Field survey	Nov. 20 - 27, 1980	5	33,303
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Jakarta metropolitan zone railway transportation project survey	In 1979, a short-term emergency railway improvement project was carried out in Indonesia. The purpose of this project was to prepare a long-term plan for IO measures to enhance transportation capabilities by using electric-powered railways, constructing additional lines, elevated track, and grade separation crossings as medium-term and long-term measures. A feasibility study of this high-priority project (based on a medium-term plan) was conducted. A master plan (to be completed by the year 2000) was prepared for the railway network in the Jakarta metropolitan area as Phase I of this project. In addition, the priorities of each project item to be improved were established in fiscal year 1980. A feasibility study on high-priority projects, and a pre-feasibility study on the project to construct continuous grade-separated crossings for the Central line were conducted in Phase II of the project. In 1981, a feasibility study was conducted on the project involving continuous grade separation of crossings of the Central line, and a report was prepared.	1979	Preliminary survey	Feb. 13 - 28, 1980	6	4,288
		1980	Preliminary survey	(preparation of reports)	0	222
		1980	Field survey	May 29 - Sept. 29, 1980	18	
		1980	Field survey	Aug. 1 - 8, 1980	4	138,628
		1980	Field survey	Sept. 15 - 22, 1980	4	
		1980	Field survey	Feb. 11 - 20, 1981	7	
		1981	Field survey	June 29 - Aug. 27, 1981	14	
		1981	Field survey	Aug. 18 - 27, 1981	2	121,082
		1981	Field survey	Nov. 6 - 20, 1981	6	
		1981	Field survey	Feb. 17 - 26, 1982	6	
			Cumulative total			

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Lang Keuame irrigation development project survey	<p>This was the most feasible of the nine projects proposed for the South Sulawesi Water Resources Total Development Master Plan. This irrigation development project was to serve 5,000 ha in the rainy season and 3,700 ha in the dry season for the Lang Keuame River basin area.</p> <p>A preliminary survey team was dispatched in fiscal year 1979 to discuss the S/W with Indonesian government officials involved with this project. At the same time, a survey on the proposed site of the irrigation waterways and a field survey of the areas that would benefit from this project were also conducted.</p> <p>In fiscal year 1980, a feasible plan was developed for the subject 6,400-ha area. Indonesian government technicians were also trained at this time. A 1:5,000 topographic map was also prepared.</p>	1979	Preliminary survey	Feb. 15 - Mar. 1, 1980	6	2,697
		1980	Preliminary survey	(preparation of reports)	0	750
		1980	Field survey	July 1 - 17, 1980	2	
		1980	Field survey	July 15 - Dec. 26, 1980	11	
		1980	Field survey	July 25 - Dec. 26, 1980	7	
		1980	Field survey	Aug. 16 - Oct. 15, 1980	1	146,097
		1980	Field survey	Oct. 15 - Nov. 13, 1980	1	
		1980	Field survey	Oct. 30 - Nov. 13, 1980	3	
		1980	Field survey	Dec. 18 - 25, 1980	1	
		1981	Field survey		0	164
	Cumulative total					150,097

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Sumatra chemical industry training/development center basic design survey	The Ministry of Industry of the Republic of Indonesia planned to establish the Sumatra chemical industry training/development center to train technicians, encourage technical development, and provide technical assistance. This project intended to resolve Indonesia's shortage of technicians, who would become leaders in the chemical industry. Japan was asked to provide technical cooperation and grant aid. In response to this request, Japan held discussions with the related Indonesian organizations, and conducted a basic design survey for the construction of this center. At the same time, a basic design report was prepared in fiscal year 1979.	1979	Survey for Grant Aid	Dec. 3 - Dec. 23, 1979	7	13,114
		1979	Survey for Grant Aid	March 20 - April 9, 1980	7	
		1980	Survey for Grant Aid	June 2 - June 11, 1980	5	20,261
		Cumulative total				33,375
Regional road improvement project survey	This project involved a survey to be conducted in support of the basic survey (inventory survey of roads and bridges) conducted by Indonesia concerning regional road improvement plans for 17 regions in seven provinces (Riau, Lampung, South Sumatra, North Sulawesi, South Sulawesi, Southeastern Sulawesi, and East Nusa Tenggara) in Indonesia. This was also to include analytical work. The Government of Indonesia requested that Japan provide a yen credit (loan) for the construction machinery needed to improve its regional network of roads. The purpose of this survey was to prepare data to be used in the appraisal to be made by the Economic Cooperation Bureau.		Field survey	Feb. 13 - May 11, 1980	9	19,161
			Field survey	July 16 - 25, 1980	2	46,977
		Cumulative total				66,138

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Jakarta Bay coastal road project survey	<p>This project involved the construction of 19.5 km of roads (2 km of access road to the port, and 17.5 km of coastal road) along the bay area in the northern section of Jakarta. The construction of these roads would complete the Jakarta contour ring road, with an access road to the new airport and city roads connected to the coastal road to form a major trunk network in Jakarta. A preliminary survey was conducted in fiscal year 1979. A full-scale survey was begun in fiscal year 1980, and an interim report was prepared. In fiscal year 1981, analysis work was done in Japan on the results of the full-scale on-site survey of the previous year, and related reports were prepared.</p>	1979	Preliminary survey	Feb. 21 - March 5, 1980	4	3,182
		1980	Preliminary survey	(preparation of reports)	0	521
		1980	Field survey	Aug. 10, 1980 - Mar. 20, 1981	14	
		1980	Field survey	Dec. 1 - 12, 1980	3	
		1980	Field survey	Jan. 3 - Feb. 28, 1981	2	155,384
		1980	Field survey	Mar. 5 - 14, 1981	3	
		1981	Field survey	July 7 - 15, 1981	4	68,634
		1981	Field survey	Oct. 1 - 10, 1981	6	
		Cumulative total				
Pelabuhan Ratu fishing port development survey	<p>The Government of Indonesia planned to construct a fishing port in Pelabuhan Ratu, Western Java province, to encourage the development of fisheries, increase the incomes of local fishermen, and to increase employment opportunities. Therefore, the Government of Indonesia requested that Japan conduct a survey on the technical feasibility of establishing the above fishing port. Japan and Indonesia discussed the proposed concepts of the Pelabuhanratu fishing port project, and a preliminary survey to clarify this technical feasibility was conducted.</p>	1979	Survey for Grant Aid (preliminary survey)	March 12 - April 2, 1980	6	5,334
		1980	Survey for Grant Aid (preliminary survey)		0	806
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Survey concerning project for improving the telecommunications network around major cities	In its third 5-year telecommunications expansion project (part of Indonesia's "REPELITA III" 5-year plan), the Posts and Telecommunications Bureau (POSTEL) of the Republic of Indonesia focused its efforts on: eliminating old facilities and integrating existing facilities, establishing new facilities, constructing new medium and short-distance circuits branching from the main trunk circuit, and improving and expanding the telecommunications networks for large regional cities and their surrounding areas. Indonesia, therefore, requested technical cooperation from Japan for a feasibility survey on proposed telecommunications plans for the development areas around Medan and Ujung Pandang. A preliminary survey was conducted in fiscal year 1979. The current situation of telecommunication facilities and the provided services were investigated, a telecommunications development plan was established for the above project, technical standards were clarified, account balances, the budget, and financial and project evaluations were also done in fiscal year 1980.	1979	Preliminary survey	Mar. 17 - Apr. 6, 1980	5	4,795
		1980	Preliminary survey		0	385
		1980	Field survey	June 23 - Aug. 31, 1980	12	52,989
		1980	Explanation of reports	Jan. 13 - 24, 1981	5	
		1981	Field survey		0	46
		Cumulative total				
Survey of regional small-city water supply system improvement projects	The government of Indonesia established a project to improve the water supply facilities in approx. 200 Indonesian cities in its third 5-year national project (1979-1984). This project would provide a better living environment for residents of these areas. In this project, existing reports were reviewed, and the necessary supplementary surveys on water supply facilities improvement projects were conducted in five medium and small-sized cities in Sulawesi (Donggala, Parigi, Tentena, Luwuk, and Baubau). Feasibility studies were done for these five cities.	1979	Field survey	Mar. 10 - June 7, 1980	7	16,973
		1980	Explanation of reports	June 20 - 30, 1980	1	57,219
		1980	Explanation of reports	Aug. 2 - 11, 1980	1	
		Cumulative total				
Basic design survey on training center for agricultural technicians required for Indonesian agricultural development	The Government of Japan initiated technical cooperation for this project in September of 1979 at three bases: the headquarters of the Agricultural Education and Training Propagation Bureau of the Ministry of Agriculture of Indonesia, and two agricultural training centers (controlled by the Agricultural Education and Training Propagation Bureau) in Batang Kaluku (South Sulawesi) and Cihea (Western Java). The Government of Indonesia requested grant aid from Japan to improve the facilities at these three base points. The Government of Japan responded to this request with grant aid cooperation in fiscal year 1980, and dispatched a survey team in April of 1980 to determine the basic designs of buildings and facilities involved in this project. The survey results revealed that the scope of cooperation for buildings and facilities would include the two training centers, but not the headquarters, and that the amount of grant aid cooperation needed was the equivalent of ¥300 million (excluding ¥100 million for accommodations for the center staff).	1979	Survey for Grant Aid	April 9 - April 28, 1980	7	13,232
		1980	Survey for Grant Aid		0	17,136
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Makassar Shipbuilding Yard improvement project survey	The purpose of this project was to conduct a feasibility study of the project for expanding and improving the Makassar shipbuilding yard on Sulawesi Island. This survey (and research on promoting Indonesia's shipbuilding industry) was conducted out from 1977 to 1979. Shipbuilding yard expansion and the establishment of new facilities were determined by the feasibility study for the Makassar shipbuilding yard. The preliminary survey was conducted in fiscal year 1979. In fiscal year 1980, demands were forecast, the type(s) of ships were selected, construction work was planned, and financial and economic analyses related to this project were conducted.	1979	Preliminary survey		0	2,188
		1980	Field survey	June 9 - Aug. 10, 1980	9	
		1980	Field survey	July 23 - Aug. 10, 1980	4	
		1980	Field survey	Nov. 10 - 16, 1980	3	96,083
		1980	Field survey	Jan. 19 - Jan. 28, 1981	6	
		1980	Field survey	Mar. 16 - 22, 1981	2	
		Cumulative total				
Radio and television broadcasting training center construction project survey	In its second 5-year plan for national development, Indonesia promoted the technical development of radio and television broadcasting. As a result, the broadcasting stations in Indonesia became well-equipped and well-provided with the necessary facilities. There was a notable delay, however, in developing human resources to cope with the processing speed in broadcasting equipment. There has been a particular shortage of technicians qualified for the management, administration, and production of broadcast programs. To solve such problems, the radio and television broadcasting center construction project was included in the third 5-year national development plan. The basic design survey needed to implement grant aid and technical cooperation by Japan was conducted, then this project was implemented.	1980	Survey for Grant Aid (preliminary survey)	Jan. 26 - Feb. 6, 1981	6	3,192
		1981	Survey for Grant Aid	Sept. 13 - Oct. 3, 1981	10	36,636
		1981	Survey for Grant Aid	Feb. 7 - Feb. 13, 1982	5	
		1982	Survey for Grant Aid			23
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Maritime radio station improvement and expansion project	The Government of Indonesia began a project involving the repair of coastal maritime radio stations, as part of its first 5-year national development project that began in 1969. This project restored and modernized the telecommunication facilities in coastal stations throughout Indonesia. Recently, the volume of telecommunications traffic in major Indonesian ports has increased sharply. Conversely, the existing telecommunications facilities have deteriorated to a point that made a review of these facilities necessary. Technical cooperation was provided by Japan to determine a short-term plan for the above, and to review a long-term project. In fiscal year 1980, this short-term plan was established and the long-term project was reviewed by examining the classification standards for coastal stations, and reorganizing the maritime communication system to cope with local needs until the year 2000.	1980	Preliminary survey	Jan. 31 - Feb. 20, 1981	4	3,400
		1980	Field survey	Feb. 10 - 20, 1981	3	8,607
		1981	Preliminary survey		0	70
		1981	Field survey	June 22 - Aug. 20, 1981	15	
		1981	Field survey	Aug. 11 - 20, 1981	3	82,500
		1981	Field survey	Nov. 30 - Dec. 10, 1981	6	
		1981	Field survey	Feb. 9 - 17, 1982	5	
		1982		(Preparation of reports on the above)	-	192
		Cumulative total				94,769
Basic design survey for Biomass Energy Research and Development Centre establishment project	This survey involved comprehensive research related to various crop plants that could be used to generate energy, the development of cultivation and harvesting technologies, research and development of energy-production technology, research on social and economic systems, methods of utilization, and energy demands and their supply. This survey was conducted in support of the planned establishment of a center for research on biomass energy to be generated using Indonesia's abundant agroforestry resources as raw materials.	1980	Survey for Grant Aid	Dec. 15 - Dec. 24, 1980	5	19,905
		1980	Survey for Grant Aid	March 10 - March 29, 1981	12	
		1981	Survey for Grant Aid	June 23 - June 30, 1981	4	25,787
		Cumulative total				45,692

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Padang Airport Improvement Project	Because the Republic of Indonesia consists of many islands, air transport has been well developed. The city of Padang, the provincial capital of West Sumatra, is the center of provincial economic activities, and is also an entry point for tourists visiting Western Sumatra. Consequently, the volume of traffic has increased sharply in recent years. A preliminary survey was conducted in fiscal year 1980, before determining an improvement plan for the Padang airport to cope with the growing air transport requirements. A full-scale survey was conducted in fiscal year 1981.	1980	Preliminary survey	Jan. 27 - Feb. 10, 1981	5	3,685
		1981	Field survey	June 24 - Sept. 23, 1981	10	
		1981	Field survey	Aug. 10 - 19, 1981	3	93,429
		1981	Field survey	Sept. 9 - 18, 1981	4	
		1981	Field survey	Dec. 9 - 16, 1981	6	
		Cumulative total				97,114

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Bila irrigation development project survey	The Bila irrigation and agricultural development project (to serve 11,000 ha of the Bila River basin in the rainy season, and 5,000 ha in the dry season) was considered one of the most feasible projects of the nine proposed projects of the Southern Sulawesi Water Resources Total Development Master Plan. A preliminary survey was conducted in Feb. of 1981, and a field survey was conducted from June to December of 1981. A draft final report was prepared in April of 1982. The above areas of the Bila River basin, where farmers were engaged in rain-irrigated paddy agriculture, were expected to show increased productivity due to the irrigation provided by this project.	1980	Preliminary survey	Jan. 25 - Feb. 11, 1981	6	4,736
		1981	Preliminary survey	(preparation of reports)	0	217
		1981	Field survey	June 25 - Dec. 6, 1981	4	
		1981	Field survey	July 15 - Nov. 11, 1981	6	
		1981	Field survey	July 25 - Dec. 6, 1981	1	
		1981	Field survey	Aug. 1 - Nov. 28, 1981	4	56,626
		1981	Field survey	Aug. 16 - Oct. 14, 1981	1	
		1981	Field survey	Oct. 1 - Nov. 29, 1981	1	
		1981	Field survey	Nov. 6 - Dec. 6, 1981	4	
		1981	Field survey	April 7 - 14, 1982	5	
		1982		(Preparation of reports on the above)	-	
		Cumulative total				61,579

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Plan for preventing and controlling rice crop damage due to disease and insects	The increased production of edible crops (mainly rice) is an important factor in stabilizing the quality of life in Indonesia, which has been suffering from the problems caused by overpopulation. The Government of Indonesia has been making large-scale investments to introduce high-yield varieties of crops, fertilizers, irrigation, and improved methods of cultivation. The agricultural production in Indonesia failed to meet targeted production levels due to crop damage caused by disease and insect pests. Consequently, the development of practical control measures became. Under these circumstances, a preliminary survey mission was dispatched in April of 1981 to hold S/W discussions with Indonesian government officials, regarding the principles for future work plans for the above-mentioned project. A field survey was also conducted at the end of fiscal year 1981. The final report was prepared in fiscal year 1982.	1980	Preliminary survey:	April 5 - April 12, 1981	1	4,346
		1980	Preliminary survey:	April 10 - April 21, 1981	6	
		1981	Preliminary survey:		0	10
		1981	Field survey	Jan. 31 - Feb. 6, 1982	2	
		1981	Field survey	Feb. 2 - Mar. 30, 1982	5	28,831
		1981	Field survey	Mar. 22 - 28, 1982	3	
		1982	Field survey	Aug. 22 - 26, 1982	6	42,555
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Improvement project survey on methods of processing harvested rice	The Government of Indonesia had included increased rice production in its five-year plan, and had tried various measures to increase rice production. Despite these efforts, rice imports only totalled about 2 million tons annually. As a result, Indonesia requested technical cooperation from Japan to reduce losses due to processing after the rice was harvested. This loss was estimated between 10% and 26% of the total rice harvest. This project was based on a resolution introduced at a UN special general meeting in 1975 that stated "The loss of food crops after harvesting shall be reduced in half after ten years." The preliminary survey mission dispatched in March of 1981 selected eight proposed provinces as possible subject areas for the survey. Four provinces were subsequently chosen as survey subjects by the S/W discussion mission. The S/W and field survey were completed in fiscal year 1981. The final report was prepared and presented in fiscal year 1982.	1980	Preliminary survey	Mar. 3 - 18, 1981	7	5,154
		1981	Preliminary survey:	(preparation of reports)	0	283
		1981	Field survey	June 23 - July 1, 1981	3	
		1981	Field survey	Aug. 9 - Nov. 23, 1981	8	
		1981	Field survey	Oct. 13 - 22, 1981	3	118,156
		1981	Field survey	Dec. 15 - 21, 1981	2	
		1981	Field survey	Jan. 25 - May 31, 1982	13	
		1982	Field survey	May 17 - 23, 1982	3	98,873
		Cumulative total				222,466
Survey for increasing the use of previously unused trees	Indonesia's lumber industry had only used large superior-quality trees, with most other trees not being used. Indonesia requested Japan's technical cooperation to promote the use of these previously unused trees, the collection of basic data, the development of technologies for processing and use, market research, and the improvement of transportation. In fiscal year 1980, Japan dispatched a preliminary survey team to investigate the feasibility of implementing the above survey, and, if feasible, which methods should be used.	1980	Preliminary survey	Feb. 3 - 23, 1981	6	5,844
		1981	Preliminary survey	(preparation of reports)	0	1,013
		1982	Preliminary survey	(preparation of reports)	0	748
		Cumulative total				7,605

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Marunda lumber distribution and processing industrial complex development survey	In recent years, there has been a sudden increase in the domestic demand for lumber in Indonesia, primarily in large cities. This increase was especially great in Jakarta (the nation's capital) and its surrounding suburbs, due to a growing population and other factors. The supply of lumber, however, was dependent on the small lumber-processing industry centered in the suburbs of Jakarta, and on lumber transported from other areas. The Government of Indonesia planned to build the Marunda industrial complex for lumber distribution and processing to modernize the lumber-processing industry in suburban Jakarta by relocating and centralizing the small processing facilities at this complex. Japan's cooperation was requested in this matter. Based on this request, Japan dispatched a preliminary survey mission in fiscal year 1980 to investigate the feasibility of cooperation and the direction that this cooperation should take.	1980	Preliminary survey	Feb. 3 - 20, 1981	5	3,681
		1980	Preliminary survey	(preparation of reports)	0	561
		Cumulative total				4,242

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
City planning survey on Surabaya metropolitan area	The purpose of this project was to establish a basic plan for developing and improving the metropolitan area of Surabaya, Indonesia's second-largest city, which serves as a center for the social and economic activities of Eastern Java province. This project also intended to carry out comprehensive adjustments between various divisional plans and, at the same time, to recommend high-priority items when these plans were implemented. In fiscal year 1981, Japan dispatched a contact mission to conduct a preliminary survey, then concluded an S/W. A partial field survey was then begun according to the S/W. In fiscal year 1982, the field surveys were continued, and the final report was prepared.	1981	Preliminary survey	May 11 - 23, 1981	4	3,207
		1981	Preliminary survey	Aug. 18 - 30, 1981	6	4,037
		1981	Field survey	Nov. 30, 1981 - Aug. 31, 1982	9	
		1981	Field survey	Feb. 22, 1981 - May 8, 1982	2	112,524
		1981	Field survey	Mar. 1 - 30, 1982	3	
		1982	Field survey	Apr. 16 - Aug. 31, 1982	13	
		1982	Field survey	Sept. 26 - Oct. 14, 1982	7	151,665
		1982	Field survey	Feb. 4 - 18, 1983	7	
		1983		(Preparation of reports on the above)	-	335
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Eastern Indonesia electrical communications network completion project survey	The purpose of this project was to establish a master plan for building a communications network in eastern Indonesia, and to establish a short-term plan (as part of the master plan) for areas that required urgent measures. A preliminary survey and full-scale survey were conducted in fiscal year 1981. The field survey was continued in 1982 from the previous year, and the final report was prepared.	1981	Preliminary survey	Dec. 1 - 16, 1981	6	4,963
		1981	Field survey	Jan. 28 - Mar. 21, 1982	12	35,648
		1981	Field survey	Mar. 5 - 21, 1982	2	
		1982	Field survey	Aug. 9 - 21, 1982	6	36,004
		1982	Field survey	Oct. 8 - 17, 1982	5	
		Cumulative total				76,615

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Semeru volcano sand embankments and water resources conservation project survey	The purpose of this project was to conduct a feasibility study of the sand embankments and water resources conservation plan for the southeastern side of the Semeru volcano. In fiscal year 1981, a preliminary survey was conducted, and the S/W was concluded. Mapping operations were continued using aerial photographs taken by the Indonesians, and on-site and full-scale surveys were conducted to facilitate the preparation of topographic maps. In fiscal year 1982, mapping operations were completed and 1:1,000 topographic maps were prepared. The master plan prepared by the Indonesians was reviewed, the project was formulated, and priorities were studied according to the field survey results. An interim report (mainly on top-priority projects) was prepared in fiscal year 1983. In fiscal year 1984, a final report was prepared and presented to the Indonesian authorities.	1981	Preliminary survey	Dec. 6 - 20, 1981	4	6,851
		1981	Field survey	Mar. 17 - 31, 1982	8	
		1981	Field survey	Mar. 30 - Apr. 10, 1982	3	32,450
		1982	Field survey	May 11 - 31, 1982	7	
		1982	Field survey	June 1 - Nov. 30, 1982	21	294,742
		1982	Field survey	Jan. 16 - Mar. 31, 1983	1	
		1983	Field survey	Apr. 17 - May 28, 1983	2	
		1983	Field survey	June 1 - July 10, 1983	6	116,631
		1983	Field survey	Nov. 1 - 20, 1983	6	
		1983	Field survey	Feb. 6 - 19, 1984	6	
		1984	Field survey	June 1 - July 28, 1984	7	78,348
		1984	Field survey	Nov. 9 - 18, 1984	5	
			Cumulative total			

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Survey on housing redevelopment project(s) in Jakarta metropolitan area	The purpose of this project was to conduct a feasibility study of the redevelopment plans for the slum areas of Jakarta's "Special City," and to improve the living environment that was to accompany this development. A preliminary survey team was dispatched and the S/W was concluded in fiscal year 1981. Based on this S/W, a full-scale survey was conducted in fiscal year 1982. This survey included the following: 1 the collection and analysis of data, 2 understanding of problems regarding the current situation, and 3 the proposal of basic concepts related to the redevelopment system, and the preparation of an interim report. The interim report was then presented and related discussions were held with the Government of Indonesia. In fiscal year 1983, basic redevelopment plans were determined for 1 the Manggarai area (7.6 ha) and 2 the Kubon Mulatei area (3.9 ha). A final report was also prepared.	1981	Preliminary survey	Dec. 9 - 16, 1981	4	5,402
		1981	Preliminary survey	Feb. 19 - 28, 1982	6	
		1982	Field survey	July 12, 1982 - Feb. 6, 1983	23	105,736
		1983	Field survey	June 5 - Sept. 18, 1983	13	93,843
		1983	Field survey	Oct. 30 - Nov. 15, 1983	4	
		Cumulative total				
Northern Banten Water Resources Development basic plan survey	The Government of Indonesia planned and formulated an agricultural development project and a water supply system completion project for developing the northern Banten area of Western Java province. Development had been delayed in this area due to water resources development problems. Therefore, the estimated demands for water in the year 2000, possible sources of additional water (made available through development), and major reservoir facilities centered around dams were investigated. A master plan was then developed.	1981	Preliminary survey	Feb. 15 - 26, 1982	5	2,945
		1982	Preliminary survey	June 20 - Sept. 10, 1982	27	
		1982	Field survey	Nov. 24, 1982 - Jan. 23, 1983	16	305,254
		1982	Field survey	Mar. 13 - 29, 1983	8	
		1983	Field survey	(work in Japan)		16,602
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	
Java Island Trunk Railway electrification project survey	The purpose of this project to expand electric-powered routes. Specifically, the project was to prepare a basic plan for building electric-powered railways by the year 2000 on the island of Java. Java is the most densely populated island in Indonesia. This project also, involved feasibility studies on sections that urgently require electrification. The preliminary survey was conducted in April of 1981 when the principles for conducting future surveys were studied, and an S/W was concluded. A full-scale survey, based on the above, was also conducted in fiscal year 1982.	1981	Preliminary survey	Apr. 1 - 15, 1982	6	4,235	
		1982	Field survey	June 16 - Sept. 22, 1982	19		
		1982	Field survey	Oct. 19 - Nov. 2, 1982	4	172,622	
		1982	Field survey	Jan. 11 - 20, 1983	7		
		1983					218
		Cumulative total					177,075
International communications: Survey for long-term development project	The purpose of this project was to review the organization, necessary personnel, and aspects of operation required for P.T. INDOSAT to perform its functions as a government enterprise. This project also involved projects to improve and expand the electrical communications network to accommodate the growing demands, as well as to establish a long-term comprehensive plan that would include an international communications policy. A preliminary survey was conducted in fiscal year 1981, and the S/W was concluded. A field survey was conducted in fiscal year 1983, and the report was presented to the Government of Indonesia.	1981	Preliminary survey	Feb. 15 - 28, 1982	7	4,514	
		1982	Field survey	June 21 - Aug. 6, 1982	14		
		1982	Field survey	Jan. 16 - 27, 1983	10	79,900	
		1982	Field survey	Mar. 14 - 23, 1983	6		
		1983	Field survey	(work done in Japan)			5,171
		Cumulative total					89,585

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Bali International Airport improvement and expansion project survey	The purpose of this project was to review the master plan prepared for improving and expanding the Bali International Airport, and to conduct a feasibility study for re-examining the project. Field surveys were also conducted.	1981	Field survey	Dec. 2 - 16, 1981	5	
		1981	Field survey	Dec. 6, 1981 - Jan. 19, 1982	7	44,868
		1981	Field survey	Mar. 1 - 5, 1982	6	
		1982		(Preparation of reports on the above)	-	12,822
		Cumulative total				
Rice seed production and distribution project survey	As part of Indonesia's plan for increased rice production, a request was made to Japan to assist in this project. The preliminary survey was conducted in October of 1981, and the S/W was concluded in December of 1981. The purposes of this project were to achieve the production of superior-quality seeds, and to increase rice production by distributing these superior seeds. Therefore, the major contents of this project involved the construction of facilities and the provision of necessary equipment and materials for producing rice seeds. After the S/W was concluded, a field survey was conducted at the end of fiscal year 1981.	1981	Preliminary survey	Oct. 14 - 30, 1981	7	6,297
		1981	Field survey	Dec. 9 - 16, 1981	4	
		1981	Field survey	Jan. 25 - Mar. 30, 1982	13	61,156
		1981	Field survey	Mar. 1 - 21, 1982	4	
		1982	Field survey	Aug. 22 - 28, 1982	6	46,062
		Cumulative total				
Sunrego irrigation development project	At the annual conference held in June of 1981, the Republic of Indonesia requested Japan's cooperation for its irrigation development plan for approx. 10,000 ha in the Sunrego area, as proposed in the "Central Southern Sulawesi Province: Master plan for overall development of water resources." After the above request was received by Japan, a preliminary survey was conducted in March of 1982, and the S/W was concluded. The topographic maps were prepared, a field survey was conducted, and work was done in Japan in fiscal year 1982. Then the final report was prepared.	1981	Preliminary survey	Mar. 3 - 19, 1982	5	4,434
		1981	Field survey	June 15 - Dec. 15, 1982	27	197,176
		1982	Field survey	Jan. 5 - 14, 1983	4	
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
The Quaternary Period Geological Research Institute construction project	A basic design survey was conducted on a construction project for a geological research institute that would become a research and development center for training and instruction in Quaternary period geology.	1981	Survey for Grant Aid	Nov. 11 - Dec. 1, 1981	6	21,030
		1982	Survey for Grant Aid			20
		Cumulative total				21,050
Riam Kanan pilot area irrigation facilities construction project	A basic design survey on building pilot facilities for irrigation in Riam Kanan to support the development of the southern Kalimantan area and to increase food production was conducted.	1981	Survey for Grant Aid	Aug. 20 - Sept. 18, 1981	6	15,364
		Cumulative total				15,364
Northern Banteng (KCC area) irrigation development project	A feasibility study was conducted on irrigation development of about 9,000 ha of land in the Kopo, Cikande, and Careng areas (about 100 km west of Jakarta).	1981	Preliminary survey	Dec. 3 - 17, 1981	6	4,542
		1982	Preliminary survey	(preparation of reports)		120
		1982	Field survey	July 20 - Sept. 10, 1982	7	21,172
		1982	Field survey	Oct. 21 - Dec. 17, 1982	13	84,744
		1982	Field survey	Mar. 13 - 22, 1983	5	
		Cumulative total				110,578
Survey regarding economic and technical cooperation	Japan and Indonesia held discussions concerning Japanese economic and technical cooperation, reviewed the actual results of technical cooperation, and discussed problems involved in the implementing economic and technical cooperation.	1981	Preliminary survey	June 8 - 20, 1981	8	3,287
		Cumulative total				3,287

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Malacca and Singapore Strait: Unified chart preparation, Phase 2	See the section on Asia in general for details. A study of the Malacca and Singapore Straits was conducted by the Indonesian Navy to determine the feasibility of a unified chart for the Straits. The study was conducted in 1981 and 1982. The final report was presented in 1982.	1981	Field survey	Sept. 17 - Oct. 18, 1981	(7)	4,019
		1982	Field survey	(preparation of reports)	0	1,967
		Cumulative total				
Jakarta city water system improvement project	A feasibility study was conducted to determine of a master plan (target fiscal year 2005) to include an urgent project (2,000 liters/second) related to the West Trum Canal (WTC). The study was conducted in 1982 and 1983. The final report was presented in 1984.	1982	Preliminary survey	Oct. 5 - 19, 1982	5	6,490
		1982	Preliminary survey	Feb. 21 - 27, 1983	5	
		1983	Field survey	June 20, 1983 - Mar. 20, 1984	19	155,440
		1984	Field survey	June 18 - Dec. 20, 1984	22	153,552
		Cumulative total				
Padang hydraulic engineering project	A general plan for hydraulic engineering was established for the city of Padang, the capital of western Sumatra Province. A feasibility study was conducted at the same time on areas that required urgent measures. The final report was presented in February of 1984.	1982	Preliminary survey	Nov. 1 - 14, 1982	6	
		1982	Field survey	Jan. 30 - Mar. 31, 1983	13	58,923
		1983	Field survey	June 12 - Oct. 9, 1983	17	128,022
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	
Sulawesi electrical communications network improvement project	The purpose of this project to conduct a feasibility study of the ground network of transmission lines on Sulawesi Island according to a request made by the Government of Indonesia. The actual transmission line ground network was designed, project expenditures were calculated, revenues were estimated, and an economic evaluation was made based on the results of the previous master survey ("Eastern electrical communications network improvement project survey".) A work plan was determined, and a final report was prepared.	1982	Field survey	Sept. 28 - Nov. 6, 1982	13	63,013	
		1982	Field survey	Jan. 26 - Feb. 4, 1983	5		
		Cumulative total					63,013
Nusa Tenggara electrical communications network improvement project	A feasibility study was conducted on the Nusa Tenggara area ground network of transmission lines for a second- priority project based on the master plan survey on the network of ground transmission lines in eastern Indonesia (conducted by JICA in fiscal years 1981 and 1982). After the field survey was completed, a plan for using a digital microwave radio-telegraph system was established, and the final report was submitted.	1982	Preliminary survey	Mar. 22 - Apr. 7, 1983	5	4,805	
		1983	Field survey	July 26 - Sept. 23, 1983	13	87,072	
		1983	Field survey	Jan. 18 - 27, 1984	5		
		1984	Field survey	(work done in Japan)			78
		Cumulative total					91,955
Dumai port improvement project	A feasibility study was conducted on the preparation of a long-term improvement plan (master plan) for Dumai port, located on the east coast of Sumatra. The targeted completion date was the year 2000. A short- term improvement plan targeted for completion by 1990 was also studied.	1982	Preliminary survey	Aug. 18 - 29, 1982	5		
		1982	Field survey	Oct. 25 - Dec. 24, 1982	10	95,397	
		1982	Field survey	Mar. 4 - 12, 1983	6		
		1983	Field survey	July 27 - Aug. 5, 1983	3	33,737	
		Cumulative total					129,134

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Overall development project for radio and television broadcasting	A survey was conducted on a long-term project (extended to the year 2000) for the total overall development of radio and television broadcasting in the Republic of Indonesia. A feasibility study was conducted at the same time on an urgently needed short-term plan.	1982	Preliminary survey	Apr. 3 - 17, 1983	6	4,393
		1983	Field survey	July 23 - Sept. 20, 1983	13	
		1983	Field survey	Dec. 18, 1983 - Feb. 15, 1984	7	165,808
		1983	Field survey	Mar. 11 - 22, 1984	6	
		1984	Field survey	Nov. 14 - 28, 1984	6	69,322
		Cumulative total				
Navigational aid facilities improvement project	A long-term project (target year 2000) and a short-term project (target year 1988) were prepared as part of improvement plans and administration/operation plans for such navigational aid facilities as medium-wave beacons, microwave radar beacons, and visible beacon lights to ensure the safety of ships in Indonesian coastal waters.	1982	Preliminary survey	(work done in Japan)		4
		1983	Preliminary survey	July 20 - 30, 1983	5	
		1983	Preliminary survey	Feb. 6 - Mar. 21, 1984	18	57,366
		1984	Field survey	Aug. 22 - Oct. 7, 1984	17	
		1984	Field survey	Dec. 18 - 26, 1984	9	146,311
		1984	Field survey	Mar. 24 - 31, 1985	7	
		1984	Field survey	(work done in Japan)		29,618
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Preparation of topographic maps of Negara river basin	This project involved the preparation of topographic maps of the Negara river basin in South Kalimantan. Separate surveys were conducted for the upper and lower reach areas of the river (as shown below) based on the preliminary survey conducted in fiscal year 1982.	1982	Preliminary survey	Dec. 2 - 22, 1982	6	
		1982	Preliminary survey	Feb. 22 - April 15, 1983	14	17,608
		1983	Preliminary survey	(work done in Japan)		6,630
		Cumulative total				24,238
1. (Preparation work for topographic maps of upper reaches of Negara river basin) A 1:50,000 topographic map covering approx. 6,500 km ² of the upstream reaches of the Negara river basin area was prepared.		1983	Field survey	July 19 - Oct. 22, 1983	15	165,957
		1983	Field survey	Nov. 9 - 20, 1983	3	
		1984	Field survey	June 18 - Sept. 7, 1984	10	119,710
		1984	Field survey	Jan. 16 - Feb. 15, 1985	8	
		1985	Field survey	(work done in Japan)		27,443
		Cumulative total				313,110

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
	<p>2. (Preparation work for photographic maps of lower reaches area of Negara river basin) (approx. 6,300 km²) of the Amuntai area. The purpose of this project was to provide aerial photography (scale, 1:20,000) of 6,300 km² of the lower reaches of the Negara river basin, and to prepare a photographic mosaic map (scale, 1:10,000) of approx. 1,200 km² of the adjacent Amuntai area. These maps were to be used as basic reference information for establishing a plan for agricultural development of the lower reaches of the Negara river, which branches from the Barito River on Kalimantan island. After studying the aerial survey and ground survey conducted in fiscal year 1984 (of approx. 1,200 km² of the Amuntai area), a topographical mosaic map was prepared in fiscal year 1985.</p>	1983	Field survey	July 4 - Nov. 2, 1983	5	102,155
		1984	Field survey	July 9 - Oct. 8, 1984	18	118,407
		1984	Field survey	Jan. 20 - Mar. 20, 1985	2	
		1985	Field survey	Aug. 9 - 31, 1985	8	156,387
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Overall development project for lower reaches of Asahan river	The purpose of this project was to establish a master plan for developing the lower reaches (approx. 6,000 km ²) of the Asahan river in Northern Sumatra Province. A general plan (including a feasibility study of an emergency flood protection plan) was determined in Part I of the survey, and a development plan for the lower reaches of the river basin, based on a farm road development plan, was established in Part II of the survey. The results of Part I were collated, and an interim report was prepared in fiscal year 1985.	1982	Preliminary survey	Dec. 5 - 24, 1982	7	7,100
		1984	Preliminary survey	July 16 - 28, 1984	6	
		1984	Field survey	Oct. 17, 1984 - Mar. 30, 1985	39	195,065
		1985	Field survey	May 17 - July 31, 1985	11	141,686
		1985	Field survey	Oct. 19 - 25, 1985	7	
		Cumulative total				
Plan for establishing an inspection center for veterinary drugs	A basic design survey was conducted on establishing a facility for inspecting and evaluating the effectiveness and safety of veterinary drugs.	1982	Survey for Grant Aid	March 30 - April 24, 1983	6	1,609
		1983	Survey for Grant Aid	Special: July 18 - 26, 1983	4	18,992
Research institute and testing laboratory for establishing medicinal drug quality control	The basic design survey on establishing a facility needed to improve the quality control system for medicinal drugs was conducted.	1982	Survey for Grant Aid	Feb. 28 - Mar. 29, 1983	6	9,348
		1983	Survey for Grant Aid	June 30 - July 9, 1983	5	12,889
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Plan for establishing a training center for vocational-training instructors and the developers of small-industry	The basic design survey on establishing a training center for vocational-training instructors and the developers of small-industry was conducted. This center was needed to train the above-mentioned people as a part of the ASEAN human resources development project.	1982	Survey for Grant-Aid	Oct. 11 - 20, 1982	2	
		1982	Survey for Grant Aid	Jan. 16 - Feb. 4, 1983	6	15,751
		1983	Survey for Grant Aid	April 18 - 27, 1983	3	20,507
		Cumulative total				36,258
Indonesia - Sri Lanka submarine cable construction plan	See the section on Asia in general for details	1982	Preliminary survey	Mar. 6 - 25, 1983	(6)	(2,755)
		1983	Field survey	Aug. 30 - Dec. 4, 1983	(24)	(162,564)
		1983	Field survey	Jan. 24 - Feb. 2, 1984	(8)	
		1984	Field survey	(preparation of reports)		(166)
		Cumulative total				165,485
Jakarta metropolitan zone railway transportation project	A feasibility study was conducted and a detailed design was completed based on the master plan established in fiscal year 1980 for the Jakarta metropolitan zone railway transportation project.	1982	Preliminary survey	July. 2 - 11, 1982	5	
		1982	Field survey	Sept. 2 - Nov. 27, 1983	20	175,642
		1982	Field survey	Jan. 10 - 31, 1983	8	
		1982	Field survey	Mar. 20 - 26, 1983	7	
		Cumulative total				175,642

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
	<p>1. New Cikarang Airport railway line plan</p> <p>A detailed design plan was implemented for the construction of the new railway line to connect the Cikarang Airport (scheduled to open in April of 1985) with Jakarta.</p> <p>Mapping operations were done from April to August of 1983, and field survey work continued from July to October of 1983. Later, analysis work was done in Japan and an interim report was prepared. In February of 1984, the interim report was explained on-site, and the project was discussed.</p> <p>The final report was prepared and presented to the Government of Indonesia in fiscal year 1984.</p>	1983	Field survey	(work done in Japan)	0	49,591
		1983	Field survey	July. 18, 1983 - Mar. 2, 1984	55	484,287
		1984	Field survey	Aug. 6 - 15, 1984	7	63,011
		Cumulative total				596,889
	<p>2. Level crossing modification for Manggarai Station</p> <p>Feasibility studies were conducted on individual plans for modifying the level crossings at Manggarai Station, with additional construction being done on the Merak and Tangerang lines by coordinating this construction with the overall plan.</p> <p>The full-scale survey was initiated in July of 1983. The field survey, analysis operations in Japan, preparation of interim reports and draft of the final report were completed before an on-site meeting was held.</p> <p>A final report was prepared and presented to the Government of Indonesia.</p>	1983	Field survey	April 28 - June 1, 1983	11	155,693
		1983	Field survey	July 25, 1983 - Mar. 20, 1984	34	30,780
		1984	Field survey	(work done in Japan)		10,878
		Cumulative total				197,351
	<p>3. Yanpong Pandang station area improvement project</p> <p>A feasibility study was conducted on the Yanpong Pandang station area improvement project.</p>	1984	Preliminary survey	July 27 - Aug. 8, 1984	2	
		1984	Field survey	Nov. 20 - Dec. 19, 1984	14	78,603
		1984	Field survey	Jan. 15 - Feb. 13, 1985	11	
		1985	Field survey	June 30 - July 13, 1985	8	54,255
		1985	Field survey	Nov. 5 - 14, 1985	7	
		Cumulative total				132,858

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Jakarta metropolitan zone trunk road network establishment plan	The purpose of this project was to conduct a survey on preparing a master plan for the Jakarta metropolitan zone trunk road network in preparation for a future trunk road network, and to evaluate existing traffic conditions in the Jakarta metropolitan area (based on a traffic survey).	1983	Preliminary survey	Dec. 14 - 23, 1983	5	3,360
		1984	Preliminary survey	May 28 - June 9, 1984	4	198,554
		1984	Field survey	Nov. 11, 1984 - Mar. 31, 1985	18	
		1985	Field survey	May 26, 1985 - Mar. 31, 1986	21	308,507
		1986				273,835
		Cumulative total				784,256
Widas River basin development project	Review and revision (Part I) of the master plan for developing the Brantas River basin in Eastern Java Province, and a feasibility study (Part II) on the development plan (mainly involving flood protection in the Widas River basin) were done. (The Widas River is a branch of the Brantas River.)	1983	Preliminary survey	Feb. 12 - Mar. 4, 1984	6	3,763
		1984	Field survey	July 16 - Dec. 30, 1984	25	167,126
		1984	Field survey	Jan. 5 - Mar. 20, 1985	12	
		1985	Field survey	April 14 - 18, 1985	2	
		1985	Field survey	June 3, 1985 - Jan. 18, 1986	27	167,664
		Cumulative total				338,553

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Ujung Pandang water supply system improvement project	A master plan for a water supply system (target year 2005) in the city of Ujung Pandang was prepared, and a feasibility study on an urgent improvement project (target year 1995) was conducted.	1983	Preliminary survey	Mar. 5 - 19, 1984	5	3,760
		1984	Field survey	July 23, 1984 - Mar. 15, 1985	20	117,175
		1985	Field survey	May 16 - July 31, 1985	12	106,035
		1985	Field survey	Oct. 2 - 16, 1985	7	
		Cumulative total				
Regional electrical communications network improvement project	About 80% of Indonesia's population lives in regions outside large cities. In these areas, the telephone systems are very inadequate. Consequently, a basic survey was conducted on the basic planning for and improvement of the electrical communications network.	1983	Preliminary survey	Feb. 26 - Mar. 11, 1984	5	3,814
		1984	Field survey	June 11 - July 20, 1984	9	
		1984	Field survey	Sept. 26 - Dec. 24, 1984	15	145,923
		1984	Field survey	Mar. 21 - 31, 1985	7	
		1985	Field survey	Aug. 2 - 16, 1985	6	45,102
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Kalian multi-purpose dam construction project	A feasibility study was conducted on the water resources development plan, which primarily involved the Kalian multi-purpose dam in the northern Banten area of western Java Province.	1983	Preliminary survey	Mar. 13 - 21, 1984	5	2,943
		1984	Field survey	July 16 - Dec. 20, 1984	29	189,430
		1984	Field survey	Mar. 18 - 24, 1985	6	
		1985	Field survey	(work done in Japan)		8,277
		Cumulative total				200,650
Bogor Agricultural University expansion project	A basic design survey was conducted on establishing administration, educational seminar, and laboratory facilities needed for the new postgraduate courses being offered by the Agricultural Engineering Department.	1983	Survey for Grant Aid	Nov. 20 - 27, 1983	2	
		1983	Survey for Grant Aid	Feb. 16 - Mar. 7, 1984	8	12,775
		1984	Survey for Grant Aid	May 29 - June 6, 1984	4	15,623
		Cumulative total				28,398
Emergency Medical Care Center construction project	A basic design survey was conducted on the granting of aid for equipment to be used to enhance the ambulance-transportation system, and to establish an emergency medical treatment center.	1983	Survey for Grant Aid	Jan. 16 - 25, 1984	3	
		1983	Survey for Grant Aid	Mar. 30 - Apr. 17, 1984	8	14,670
		1984	Survey for Grant Aid	June 14 - 23, 1984	5	16,888
		Cumulative total				31,558
Economic and technical cooperation survey	Japanese economic and technical cooperation with Indonesia was explained and the actual results of technical cooperation were reviewed. Japanese and Indonesian officials held discussions on the problems involved in the implementing economic and technical cooperation so that Japan's economic and technical cooperation with Indonesia could be efficiently provided.	1983	Preliminary survey	June 26 - July 2, 1983	6	2,452
		Cumulative total				2,452

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Comprehensive evaluation survey	An evaluation survey was conducted on project achievements, the economic and social effects, the need for proper planning and followup for the following six economic and technical cooperation projects (completed or ongoing) in Indonesia. * Sulawesi Industrial Vocational Training Center * Sericulture development * Irrigation and Drainage Construction Technical Center * Jakarta Casting Center * Pelita Bahari Shipbuilding Yard * 2nd KR	1983	Evaluation	Feb. 20 - Mar. 6, 1984	5	2,618
		1984	Evaluation	(Preparation of reports)		207
		Cumulative total				2,825
Comprehensive economic and technical cooperation survey	A survey team was dispatched so that both nations could hold discussions and conduct a comprehensive review to determine the best ways to provide Japanese development aid to the Government of Indonesia.	1983	Preliminary survey	Mar. 5 - 10, 1984	3	1,786
		Cumulative total				1,786
ASEAN Nations Economic and Technical Cooperation survey	See the section on Asia in general for details.	1983	Preliminary survey	Oct. 30 - Nov. 12, 1983	(2)	(427)
		Cumulative total				(427)
Regional road improvement project	A feasibility study was conducted on the improvement of regional roads in 38 areas in the provinces of Sumatra, Kalimantan, Sulawesi, and Nusa Tenggara.	1984	Preliminary survey	June 6 - 15, 1984	4	
		1984	Field survey	Oct. 8, 1984 - Mar. 21, 1985	13	103,891
		1985	Field survey	June 3 - Dec. 29, 1985	8	127,684
		Cumulative total				231,575

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Medan, Semarang, and Solo telephone network improvement plan	A feasibility study was conducted to establish a telephone network improvement and expansion plan for the cities of Medan, Semarang, and Solo.	1984	Preliminary survey	June 18 - 30, 1984	4	
		1984	Field survey	Nov. 13, 1984 - Mar. 24, 1985	18	119,395
		1985	Field survey	Sept. 24 - Oct. 3, 1985	6	73,763
		Cumulative total				193,158
Java Island Railway trunk line electrification plan	A feasibility study was conducted on the electrification plan for 220 km from Jakarta to Cikampek and Cirebon, and for 90 km between Cikampek and Bandung, for which electric-powered train service was urgently required. This was based on the master plan survey conducted in fiscal year 1981 and 1982.	1984	Preliminary survey	July 27 - Aug. 8, 1984	4	
		1984	Field survey	Dec. 14, 1984 - Jan. 15, 1985	16	84,213
		1984	Field survey	Feb. 13 - Mar. 20, 1985	14	
		1985	Field survey	Aug. 22 - Sept. 4, 1985	8	84,669
		1985	Field survey	Dec. 4 - 13, 1985	6	
		Cumulative total				168,882

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Semarang port improvement plan	A master plan for improving Semarang port (target year 2005) was prepared, and a feasibility study on the short-term improvement plan for Semarang port (targeted for 1995) was conducted.	1984	Preliminary survey	Dec. 11 - 22, 1984	5	4,238
		1985	Field survey	May 27 - Aug. 3, 1985	11	
		1985	Field survey	Nov. 21 - Dec. 14, 1985	7	158,024
		1985	Field survey	Mar. 13 - 22, 1986	5	
		1986				16,191
		Cumulative total				
Surabaya - Banjarmasin submarine cable construction plan	The purpose of this project was to conduct a feasibility study on the submarine cable construction plan (between Surabaya and Banjarmasin in Indonesia). A full-scale survey was conducted in fiscal year 1985, and an interim report was prepared based on the survey results.	1984	Preliminary survey	Feb. 18 - Mar. 1, 1985	5	3,907
		1985	Field survey	Dec. 13, 1985 - Mar. 20, 1986	36	201,413
		1986				46,807
		Cumulative total				251,127
Jogjakarta (Yogyakarta) Airport and Central Java Airport improvement project	A master plan for the airport system (for the entire central Java area) centered around Yogyakarta Airport was prepared to cope with increasing demands for air transport, and to contribute to regional development. A feasibility study was also conducted on the best plan.	1984	Preliminary survey	Feb. 12 - 23, 1985	5	3,388
		1985	Field survey	Aug. 13 - Nov. 12, 1985	16	
		1985	Field survey	Dec. 15 - 29, 1985	2	151,799
		1985	Field survey	Feb. 10 - Apr. 10, 1986	11	
		1986				79,824
		Cumulative total				235,011

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Plan for forecasting and controlling damage to rice crops due to disease and insects	A preliminary survey was conducted to make basic decisions about establishing regional crop protection centers and the Jalisaya damage-control center, which was to become the central organization for forecasting and controlling damage to rice crops due to disease and insect pests. These problems posed serious obstacles to achieving increased rice production. (See the section on grant aid cooperation.)	1984	Survey for Grant-Aid	June 20 - 29, 1984	3	1,838
		Cumulative total				
Telephone line maintenance center project	A basic design survey was conducted on the plan to establish a maintenance center in the Bandung area for expanding communication services.	1984	Survey for Grant Aid	Dec. 3 - 23, 1984	6	22,353
		1984	Survey for Grant Aid	Feb. 20 - 28, 1985	4	
		Cumulative total				
Economic and technical cooperation survey	Annual conference	1984	Project Formulation	Aug. 19 - 24, 1984	6	2,672
		Cumulative total				
Economic and technical cooperation evaluation survey	(Philippines and Indonesia) See the section on Asia in general for details.	1984	Evaluation (survey)	Jan. 29 - Feb. 15, 1985	(4)	(3,089)
		Cumulative total				
Batungkum agricultural development project	This agricultural development project basically involved irrigation and drainage plans for rice production in approx. 20,000 ha of land between the Mahatokili and Kum Rivers (upstream area of the Rokan River in Riau Province on central Sumatra). This project was implemented with the migration project, a top priority item in Indonesia's third 5-year economic development project. A preliminary survey was conducted in fiscal year 1984, and the S/W was concluded. Based on this S/W, the surveying needed to prepare topographical maps was conducted with a feasibility study in fiscal year 1985.	1984	Preliminary survey	Nov. 4 - 25, 1984	4	3,082
		1985	Field survey	June 5 - Aug. 17, 1985	14	85,466
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	
Jakarta City urban waste treatment improvement project	The purposes of this project were to analyze existing waste treatment conditions in Jakarta, establish a rational plan for system improvement, and conduct a survey on promoting this project in top-priority areas. The preliminary and field surveys (to understand the urban conditions in Jakarta and existing waste treatment conditions) that came under Phase I of the full-scale surveys (Phases I to IV) were conducted in fiscal year 1985.	1985	Preliminary survey	Sept. 18 - 29, 1985	5		
		1985	Field survey	Jan. 8 - Mar. 28, 1986	18	60,435	
		1986					180,027
		Cumulative total					240,462
Western Java district development project	The purpose of this project was to prepare a master plan for regional development, especially for developing tourism, in the western coastal area of Java. This project also involved a feasibility study on high-priority projects. A contact mission was dispatched in fiscal year 1985.	1985	Preliminary survey	Feb. 26 - Mar. 13, 1986	7	5,821	
		1986				139,086	
		Cumulative total				144,907	
Long-term electrical communication system development plan	This project determined a long-term development plan (target year 2004) for an electrical communications system that would provide the basis for a comprehensive electrical communication network (including new services to be offered upon digital network completion). Preliminary and field surveys were part of the full-scale survey conducted in fiscal year 1985.	1985	Preliminary survey	Oct. 28 - Nov. 9, 1985	5	65,878	
		1985	Field survey	Feb. 3 - Mar. 29, 1986	13		
		1986				163,107	
		Cumulative total				228,985	
Evaluation survey on cooperation for increasing rice crop production	Before the end of the comprehensive R/D term of cooperation for increasing rice crop production in Indonesia, Japan and Indonesia conducted a joint evaluation survey to analyze and better understand the effects and problems of this cooperation project. A field survey was conducted in November of 1985. The related reports were explained in March of 1986, and an R/D agreement was signed.	1985	Evaluation (survey)	Nov. 25 - Dec. 8, 1985	9	22,275	
		1985	Evaluation (survey)	Mar. 19 - 26, 1986	6		
		Cumulative total				22,275	

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Economic and technical cooperation evaluation survey	(Indonesia, Burma, and Thailand) See the section on Asia in general for details.	1985	Evaluation (survey)	Aug. 22 - Sept. 11, 1985	(2)	(2,050)
		Cumulative total				(2,050)
Economic and technical cooperation survey	(Indonesia and Malaysia) Annual conference	1985	Project Formulation	July 9 - 20, 1985	(6)	(1,770)
		Cumulative total				(1,770)
Economic and technical cooperation evaluation survey	Evaluation by personnel actually involved in cooperation	1985	Evaluation (survey)	Nov. 3 - 7, 1985	2	529
		Cumulative total				529

(NATION) Indonesia (Development Survey Programme)

(Unit: 1000 yen)

Name of project or item	Fiscal year	Trainees	Survey teams	Experts	Volunteers	Equipment supply	Other	Total
Kalimantan and South Sulawesi submarine cable construction project	1986		4,729					4,729
	Cumulative total		4,729					4,729
Galunggung volcano disaster prevention project	1986		4,515					4,515
	Cumulative total		4,515					4,515
Estimation survey on inter-island demand	1986		70,078					70,078
	Cumulative total		70,078					70,078
Sumatra transverse trunk line transmission route completion project	1986		30,458					30,458
	Cumulative total		30,458					30,458
Major crop production promotion project	1986		17,761					17,761
	Cumulative total		17,761					17,761
Flood protection plan for upper reaches of Ci Talum River	1986		40,741					40,741
	Cumulative total		40,741					40,741
Project for improving the organization to prevent marine accidents, and the search and rescue organization	1986		7,670					7,670
	Cumulative total		7,670					7,670

Name of project or item	Fiscal year	Trainees	Survey teams	Experts	Volunteers	Equipment supply	Other	Total
Economic and technical cooperation survey (annual conference)	1986		1,968					1,968
	Cumulative total		1,968					1,968
Other	Until 1983		336,426					336,426
	Cumulative total		336,426					336,426
(Total for development survey programme)			(19,026,536)					(19,026,536)

Overseas development Plan Survey programme

Survey team

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Steel industry development and expansion survey on six southeast Asian nations	(Indonesia, Malaysia, the Philippines, Singapore, Thailand, and Taiwan) See the section on Asia in general for details.	1968	Overseas development plan survey	June 19 - July 11, 1968	(8)	(2,014)
		1968	Overseas development plan survey	July 22 - Aug. 14, 1968	(8)	
		Cumulative total				(2,014)

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	
Selection and confirmation surveys on southeast Asian mining industry projects	2 (Indonesia, Malaysia, the Philippines, Singapore, and Thailand) See the section on Asia in general for details.	1972	Overseas development plan survey	May 31 - June 20, 1972	(2)	(238)	
		Cumulative total				(238)	
	3 (Indonesia, Nepal, the Philippines, and Thailand) See the section on Asia in general for details.	1973	Overseas development plan survey	May 27 - June 15, '73	(2)	(600)	
		Cumulative total				(600)	
	4 (Indonesia, Malaysia, the Philippines, Viet Nam, Papua - New Guinea) See the section on Asia in general for details.	1974	Overseas development plan survey	Oct. 30 - Nov. 15, '74	(2)	(585)	
		Cumulative total			(2)	(585)	
	5 (Indonesia, the Philippines, Papua - New Guinea) See the section on Asia in general for details.	1975	Overseas development plan survey	July 8 - 26, 1975	(2)	(664)	
		Cumulative total			(2)	(664)	
	6 (Indonesia, Malaysia, Nepal, and Thailand) See the section on Asia in general for details.	1975	Overseas development plan survey	February 22 - March 15, '76	(2)	(488)	
		Cumulative total			(2)	(488)	
	Survey on developing power resources on Larona River	The Larona river system was surveyed, with emphasis placed on the river flow conditions. The flooding situation in the river basin during the rainy season was observed. The demands electricity on Sulawesi Island, and the method of supply were surveyed.	1963	Overseas development plan survey	March 5 - April 7, 1964	3	2,477
			1964	Overseas development plan survey		0	87
Cumulative total						2,564	

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Pulp and paper mill industries development project survey	1. A field survey on technical, economic, management, and administrative aspects was conducted on the feasibility of future development and expansion of the Indonesian paper mill industry. This included a plan for reconstructing the Siantaru plant (located in northwestern Sumatra) and the Goa paper mill plant in Makassar (Sulawesi) that was built using war reparations from Japan.	1968	Overseas development plan survey	October 24 - November 22, 1968	3	2,731
		Cumulative total				2,731
	2. Survey on current economic, industrial, and resource conditions related to pulp and paper mill industry development basic plan, and survey	1970	Overseas development plan survey	June 4 - July 8, 1970	8	13,533
		Cumulative total				13,533
Basic survey on developing electric power companies and basic planning for expansion	To prepare a basic plan for reviving electric power companies, various problems were surveyed and examined, then the immediately needed short-term plan was prepared. Areas to which electric power is supplied by public electric power companies, and areas to which electric power will be supplied in the future, were surveyed. The management of problems was also surveyed and analyzed from a long-term viewpoint.	1968	Overseas development plan survey	December 14, 1968 - March 24, '69	5	8,304
		1969	Overseas development plan survey	April 12 - July 31, '69	5	10,116
		Cumulative total				18,420
Textile industry basic plan survey	A survey on the actual production and supply situation of the entire textile industry was conducted, the demands for textiles were forecast, and a master plan was prepared.	1970	Overseas development plan survey	February 27 - March 22, 1971	3	2,910
		1971	Overseas development plan survey		0	2,224
		Cumulative total				5,134

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Basic survey concerning mining industry development plan	A feasibility study was conducted on the following three major projects: ① Iron sand development in the area between Cilacap and Yogyakarta, ② expansion of sugar plants in Surabaya Waru, and ③ selection of industrial complex projects for Jakarta, Surabaya, Cilacap, and Mezong.	1970	Overseas development plan survey	March 3 - 23, 1971	8	6,959
		1971	Overseas development plan survey		0	3,981
		Cumulative total				
Eastern Java electric power plan survey	A survey on existing electric power facilities was conducted to provide a basis for establishing a long-term electric power plan for 1972 to 1985. The demands for electric power and the method of supply were estimated, and development plans were established for electric power resources and transmission lines.	1971	Overseas development plan survey	August 28 - November 10, 1971	5	24,614
		Cumulative total				
Pomalaa area nickel refinery construction plan survey	Mining plans, refinery plans, and economic plans (related to the low-grade nickel or refinery plan) were studied.	1971	Overseas development plan survey	February 29 - March 26, 1972	6	6,075
		1972	Overseas development plan survey		0	3,269
		Cumulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Synthetic and chemical textile industry development plan survey	The situation of Indonesia's textile industry was surveyed, and a report was submitted to the Government of Indonesia regarding a proposed policy and the establishment of a long-term development project to develop a synthetic and chemical textile industry. After the synthetic and chemical industry development plan survey was completed in fiscal year 1972, the following surveys were conducted on developing a synthetic monomer textile industry. ①Forecasting changes in the demands for and supply of synthetic textiles in Indonesia, ②Survey on global demands for supply of raw materials for synthetic textiles, ③clarification of domestic consumption and availability of raw materials for synthetic textiles, ④study on economic and technical feasibility of developing a synthetic monomer textile industry, ⑤establishing a long-term plan for promoting this project, (including an optimum production scale), acquiring raw materials, etc., ⑥study on concrete plans for the plant to be built, ⑦analysis of this industry's contribution to the social and economic development of Indonesia.	1972	Overseas development plan survey	July 18 - August 16, 1972	8	22,121
		1972	Overseas development plan survey	January 21 - 25, 1973	1	
		1973	Overseas development plan survey	November 19 - December 4, 1973	8	31,152
		1974	Overseas development plan survey	July 17 - July 25, 1974	1	8,259
		Cumulative total				
Basic chemical industry development plan survey	A survey was conducted and a report was submitted to determine a long-term project. The survey covered the current situation and future potential of Indonesia's salt-making industry and basic chemicals industry.	1972	Overseas development plan survey	September 4 - October 10, 1972	8	15,948
		Cumulative total				15,948
Steel industry development plan survey	Survey on preparing a master plan for steel industry development	1972	Overseas development plan survey	October 4 - November 4, 1972	8	15,367
		Cumulative total				15,367
Survey on project involving Ci Tarum hydroelectric power plant in western Java	Surveys were conducted on the development plan for the Ci Tarum hydroelectric power plant, and the long-term demands for and supply of electricity in west Java.	1972	Overseas development plan survey	October 16 - November 29, 1972	6	15,654
		Cumulative total				15,654

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Petrochemical industry development plan survey	The petrochemical industrial survey (Phase I) had been conducted with the support of UNIDO on the export of crude oil after its added value was increased. This survey (Phase II) was a continuation of the previous Phase I survey. In this survey, the master plan and guidelines for promoting the development of the Indonesian petrochemical industry, were prepared. Also involved were various measures for petrochemical industry development and for promoting the plastics processing, synthetic rubber, and detergent industries were determined and recommended, and the contributions to be made to the national economy by the petrochemical industry were studied. A report on the above was prepared, presented, and explained to the Government of Indonesia in fiscal year 1974. (NOTE) See No. 10 of fiscal year 1974 for details on the monetary amounts for fiscal year 1974.	1973	Overseas development plan survey	January 6 - February 4, 1974	12	69,899
		1974	Overseas development plan survey	July 17 - 25, 1974	2	-
		Cumulative total				69,899
Sadang hydroelectric power plant development survey	1 Preliminary survey A study was made on a comprehensive development plan for generating hydroelectric power on the Sadang River, approx. 150 km north of Ujung Pandang on Sulawesi Island, Indonesia, and in the Mamasa and Matalahu River basins. Both rivers are branches of the Sadang River. A feasibility study was conducted to determine the most urgent development plan, based on technical and economic considerations.	1974	Overseas development plan survey	March 5 - 25, 1975	6+(1)	15,591
		1975	Overseas development plan survey	August 28 - September 6, 1975	1	38,370
		Cumulative total				53,961
	2 Hydrological survey A hydrological survey that included rainfall and river flow rate observation in the Mamasa River (branch of the Sadang River) basin was conducted as a part of the Sadang River hydroelectric power development project in South Sulawesi.	1975	Overseas development plan survey	February 13 - March 27, 1976	2	
	3 Kalian power station plan survey A feasibility study was conducted on the Kalian power station development on the Mamasa River. A boring survey was conducted at the water supply site for the dam, a physical search for an optimum water supply channel was made, and soil research was carried out.	1976	Overseas development plan survey	September 8, 1976 - March 21, 1977	16	97,401
		1977	Overseas development plan survey	September 5 - 16, 1977	2	5,922
		Cumulative total				103,323

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
City gas system improvement project survey	A field survey was conducted to establish a basic design for the master plan, and to examine the technical and economic matters needed for repairing and developing city gas systems in Indonesia. The results showed that an exploratory survey of coal deposits was essential for production of gas. The number of trial drillings and estimated coal extent of production capacity to confirm the coal deposits were six and five. The trial survey program of three wells was determined, and trial drilling began. This trial drilling program was finished in fiscal year 1974. Since then exploration of coal deposits is continuing.	1974	Overseas development plan survey	March 7 - 30, 1975	8	11,245
		1975	Overseas development plan survey (report)	August 24 - 29, 1975	1	11,302
		Cumulative total				
Ujung Pandang industrial complex construction project survey	A pre-feasibility study was conducted on building an industrial complex in Ujung Pandang or in one of its suburbs. According to the feasibility study conducted in fiscal year 1976, a construction site was selected from among the nine proposed sites. The site size was approx. 221 ha. About 150 firms were expected to use the complex. These firms are involved in such businesses as food processing, textiles, woodworking, ceramics, metal processing, and machinery.	1975	Overseas development plan survey	February 25 - March 16, 1976	5	13,544
		1976	Overseas development plan survey (report)	August 25 - September 3, 1976	2	
		1976	Overseas development plan survey	October 3 - November 13, 1976	11	70,492
		1976	Overseas development plan survey (report)	March 21 - 30, 1977	1	
		Cumulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Ombilin coal mine development project survey	A preliminary survey was conducted in fiscal year 1977 on coal mine development in Ombilin, Western Sumatra Province, on the island of Sumatra as requested by the Government of Indonesia. The survey results showed that an exploratory survey of coal deposits was essential for restructuring the mine. The number of trial drillings and estimated total extent of evacuation necessary to confirm the coal deposits were also studied. The total survey term of three years was determined, and trial drilling began. This trial drilling continued into fiscal year 1978. Japan also dispatched an interim mission.	1977	Overseas development plan survey (preliminary survey)	July 17 - 30, 1977	5	39,156
		1977	Overseas development plan survey	January 10 - March 31, 1978	8	
		1978	Overseas development plan survey	April 1, 1978 -	(5)	111,085
		1978	Overseas development plan survey	June 12, 1978 - March 31, 1979	6	
		Cumulative 1979	Overseas development plan survey	April 1 - June 9, 1979	5	36,133
		1979	Overseas development plan survey (report)	September 25 - October 7, 1979	4	
		1979	Overseas development plan survey	November 27, 1979 - March 31, 1980	5	31,450
		Cumulative total				217,824

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
	<p>2. Additional soil research for Ombilin coal mine development project.</p> <p>Soil research related to the development of the Ombilin coal mine in the Sawahlunto area of western Sumatra Province was carried out as part of Indonesia's energy policy. In fiscal year 1980, a report was prepared based on the trial drillings conducted in fiscal year 1979 and earlier. Technical assistance was provided for the soil research that was to be continued by Indonesia.</p>	1980	Overseas development plan survey (report):	September 2 - 21, 1980	1	22,799
		1980	Overseas development plan survey	November 25 - December 9, 1980	2	
		1980	Overseas development plan survey	February 20 - March 6, 1981		
		Cumulative total				22,799
	<p>3. Discussion concerning Ombilin coal mine development project survey, etc.</p> <p>A field survey was conducted for the Ombilin coal mine development project and the plan to establish a data bank system for coal exploration and production and a data bank system for the demands for and supply of energy. Japan dispatched a survey mission to discuss the handling of such a project in the future.</p>	1980	Overseas development plan survey	June 30 - July 5, 1980	3	1,308
		Cumulative total				1,308
Bukit Asam coal thermal power station construction project survey	<p>The Government of Indonesia planned to build a coal-fired thermal power station to supply electric power to Palembang and nearby cities, and to supply the electricity needed for Bukit Asam coal mine development by using the coal from this mine (located 130 km southwest of Palembang City, Selatan Province, on Sumatra). The Government of Indonesia requested Japan's cooperation in this project. Therefore, Japan conducted a feasibility study, prepared a report on the study, later explained the report on-site, then presented the report to the Government of Indonesia.</p>	1977	Overseas development plan survey	September 25 - October 22, 1977	9	56,247
		1977	Overseas development plan survey (report)	March 5 - 11, 1978	1	
		1978	Overseas development plan survey	(preparation of reports)	0	2,520
		Cumulative total				58,767

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Energy data bank project survey	<p>Information on important energy resources such as petroleum in Indonesia is held separately by: the Government of Indonesia, individual organizations affiliated with the government, and contractors. Consequently, this information cannot be used effectively. The petroleum and gas public corporation (PERUTAMINA) operated by Indonesia has been studying 1) the formation of a data bank for energy supply/demands, and 2) the formation of a data bank for the exploration and development of energy resources so that this information can be effectively used. Indonesia asked Japan to provide technical cooperation in this matter.</p> <p>A preliminary survey was conducted to confirm the details of the request presented in fiscal year 1977.</p> <p>A survey was conducted on designing demand/supply estimation procedures, and on designing an energy demand/supply data bank in Indonesia in fiscal year 1978. In fiscal year 1979, a manual was prepared for use in determining the type of method to be used to start designing the data banks. This manual was intended for use by the technical advisers dispatched to Indonesia, and by the Indonesian trainees involved with parts of this project scheduled for the following and subsequent years.</p>	1977	Overseas development plan survey (preliminary survey)	Feb. 28 - March 12, 1978	6	5,806
		1978	Overseas development plan survey	October 15 - November 4, 1978	8	17,494
		1978	Overseas development plan survey (report)	March 4 - 13, 1979	1	
		1979	Overseas development plan survey	July 28, 1979 - March 23, 1980	9	29,025
		1980	Overseas development plan survey	September 18 - October 8, 1980		
		1980	Overseas development plan survey	January 5 - 25, 1981	13	22,899
		1980	Overseas development plan survey	February 16 - March 1, 1981		
		Cumulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Survey on design of new Aceh fertilizer plant	The Republic of Indonesia planned to build a fertilizer plant (with a urea production capacity of 1,725 tons/day and an ammonia production capacity of 1,000 tons/day of ammonia) in the Aceh area as an ASEAN project to use the natural gas produced in the Aceh area of Northern Sumatra. The Government of Indonesia conducted a feasibility study and prepared a "Feasibility Study on the ASEAN Ammonia-Urea Project (in) Aceh in Indonesia" and the "Project Proposal for the ASEAN Ammonia-Urea Project (in) Aceh in Indonesia." The Government of Indonesia requested a yen credit loan from Japan based on these reports. However, Japan considered these reports as within the scope of a preliminary survey, and conducted a detailed survey based on a mutual acknowledgement of circumstances. A report was prepared based on the field survey conducted in fiscal year 1977, and explained the report on-site in fiscal year 1978.	1977	Overseas development plan survey	February 5 - March 8, 1978	14	46,937
		1978	Overseas development plan survey	June 29 - July 8, 1978	2	42,751
		Cumulative total				
Petroleum exploration and production data bank system development	The purpose of this project was to develop a data bank system to collect, classify, and store information about petroleum and natural gas exploration and development. This system was to facilitate the efficient use of such information for petroleum exploration and production. Petroleum and natural gas very important to the Indonesian economy. In fiscal year 1980, the concept design report (proposal) prepared in the previous fiscal year was explained and discussed. The results of the above were officially finalized in a concept design report, then detailed design work began. A survey was conducted on the data base structure, code system, program specifications, and master file, the concept design report was prepared, and recommendations were made regarding program preparation and system introduction. These tasks were done during fiscal year 1981.	1978	Overseas development plan survey	November 20 - December 24, 1978	9	35,970
		1979	Overseas development plan survey (report)	July 14 - 22, 1979	3	3,338
		1979	Overseas development plan survey		0	48,131
		1980	Overseas development plan survey	June 2 - July 1, 1980	8	22,458
		1980	Overseas development plan survey	September 25 - October 1, 1980	2	59,740
		1981	Overseas development plan survey	May 25 - June 16, 1981	10	24,368
		Cumulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Maung hydroelectric generation development project survey	This project was recommended by the power development study (part of the feasibility study report on the Seraya River Basin Study done by the Snowy Mountains Engineering Corporation of Australia in September 1974). This study recommended project completion by 1988 or 1989 to cope with anticipated electric power demands in central Java. When this project is completed, sand sedimentation in the Mrica reservoir (located along the main route of the river) can be reduced, and the service life of the reservoir can be lengthened due to the sand embankments on the Merawa River. During the dry season when water is released from the Maung reservoir to supply the Mrica reservoir downstream, irrigation water can be supplied to the lower reaches of the river. Available data was collected, the topography was analyzed by reading topographical maps and studying aerial photographs, and soil research in the water-collection area, as well as boring were done for the land survey. Existing hydrological observation stations were inspected and available hydrological data was collected for the hydrological survey. Available civil engineering data was studied, preliminary design principles were designed, access roads and bridges were constructed, and additional necessary reports on the civil engineering survey were prepared in fiscal year 1978.	1978	Overseas development plan survey	January 20 - March 31, 1979	10	36,902
		1979	Overseas development plan survey	April 1 - August 26, 1979	(8)	158,318
		1979	Overseas development plan survey	May 21 - September 16, 1979	8	
		1980	Overseas development plan survey (report)	October 22 - 27, 1980	3	57,535
		Cumulative total				
Project survey on establishing new pulp and paper mills	The Republic of Indonesia listed promoting pulp and paper industry development as one of its top-priorities to replace all paper being imported for newspapers and cement packaging with domestically produced paper. After discussing the need to establish new paper mills (one for newsprint and one for cement-packaging paper) when examining the basic plans for Indonesia's pulp and paper industry, the Pakumanang area in central Java was selected. The feasibility of constructing a cement-packaging paper plant in a relatively short time was agreed upon. This proposal was incorporated into the documents presented to the Ministry of Industry and the Forestry Public Corporation. The use of regional resources and establishment of a new paper mill required adjustments to be made and legal procedures to be followed. Consequently, settlements with Indonesian government organizations were necessary. Therefore, matters related to implementing a full-scale survey were studied after the preliminary survey team returned to Japan. This study was made based on the results of the above settlements and discussions held between the concerned ministries in Indonesia.	1979	Overseas development plan survey (preliminary survey)	March 15 - 28, 1979	7	10,290
		1979	Overseas development plan survey	Preparation of reports	0	3,833
		Cumulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
North Sumatra electrical transmission network development project survey	The purpose of this survey was to conduct a feasibility study of: 1 the distribution of electricity to cities around the trunk line using secondary 20 KV lines from the main line (a 150 kV high-tension transmission line) running from Kuala Tanjung to Medan. This line was a part of the Asahan project in North Sumatra, 2 the establishment of five power stations in Kuala Tanjung, Kiasaran, Tebingtinggi, Pemetangsiantar, and Brastagi, and 3 the establishment of two switching stations at Medan Timur and Titikuning.	1979	Overseas development plan survey	November 26 - December 30, 1979	6	34,331
		1979	Overseas development plan survey (report)	March 9 - 13, 1980	1	
		1980	Overseas development plan survey	(preparation of reports)	0	1,115
		Cumulative total				35,446
Small-scale industry promotion project: preliminary survey	A preliminary survey was conducted to study the contents of Indonesian requests for cooperation, and to examine future methods of cooperation related to requests for preparing a project to promote small-scale industrial development in Indonesia.	1979	Overseas development plan survey (preliminary survey)	February 4 - 17, 1980	5	5,866
		1980	Overseas development plan survey (preliminary survey)	(preparation of reports)	0	414
		Cumulative total				6,280
Industrial standardization project: preliminary survey	In July of 1979, when a survey mission was dispatched to select and confirm projects related to the mining industry, and in October of 1979, when the annual conference mission was dispatched from the Ministry of Foreign Affairs, Indonesia requested cooperation for promoting industrial standardization. The advance survey was then conducted to determine the following three points: 1 the current situation of industrial standardization in Indonesia, 2 the Indonesian government's basic principles for industrial standardization, 3 actual understanding of the contents of the requests for cooperation, and achieving a mutual understanding as a starting point for future cooperation.	1979	Overseas development plan survey (preliminary survey)	January 28 - February 9, 1980	6	4,795
		Cumulative total				4,795

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Lempur geothermal development project survey	<p>Technical cooperation for geothermal development was provided to encourage the diversification of energy sources by developing geothermal energy, water power, coal, and natural gas, as alternate energy sources to petroleum. The project was based in Lempur in the central "Kerinci" area of Sumatra.</p> <p>After the preliminary survey in fiscal year 1979, another preliminary survey, aerial photography for soil analysis, soil research, rock surveying, and geochemical exploration were done in fiscal year 1980.</p> <p>In 1981, the following items were examined: 1 analysis of field survey results from fiscal year 1980, soil analysis, and geochemical analysis, 2 field surveys, electrical exploration, gravity exploration, and one-meter depth surveys, 3 analysis of ground-surface survey results, and examination drilling locations for survey wells.</p> <p>A set of boring equipment for use in the next-stage of surveys was granted to Indonesia.</p> <p>In 1982, the following surveys were conducted: 1 drilling survey wells at locations selected by surveys done in fiscal years 1980 and 1981, 2 examination of ground layers found in drill cores, 3 soil survey of cores, 4 pressurized water testing, and 5 jetting testing.</p>	1979	Overseas development plan survey (preliminary)	December 3 - 25, 1979	3+(1)	10,068
		1980	Overseas development plan survey (preliminary)	September 25 - October 21, 1980	4	12,049
		1980	Overseas development plan survey	February 3 - March 26, 1981	7	19,722
		1981	Overseas development plan survey	July 6 - 16, 1981	10	
		1981	Overseas development plan survey	August 24 - November 10, 1981		88,113
		1981	Overseas development plan survey (report)	February 1 - 28, 1982	1	
		1982	Overseas development plan survey	June 20, 1982 - March 31, 1983	14	136,715
		1983	Overseas development plan survey (report)	July 24 - 30, 1983	1	30,055
		umulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Condom manufacturing plant establishment project survey	A feasibility study was conducted to cope with Indonesian needs for higher condom quality and quantity through domestic production of condoms that satisfy a quality standard suited to the actual circumstances in Indonesia. This study was also conducted to facilitate family-planning activities being carried out based on Indonesia's third 5-year family-planning project determined by the National Family Planning and Control Board (BKKBN-NFPCB). In fiscal year 1980, a preliminary survey was conducted to understand the background and actual contents of the request, the S/W was discussed and signed, and related information was collected. After studying the results of the preliminary survey done in the previous fiscal year, the feasibility study conducted in fiscal year 1981 came to following conclusions: 1 A condom manufacturing plant using latex produced in Sumatra in its primary stage, and latex produced in Java in its secondary stage would be established in Banjaran, a suburb of Bandung City. 2 The plant profitability was deemed feasible from a financial/economic viewpoint. The study was conducted by the Center, previously established by UNFPA and the Government of Indonesia. The survey was carried out by the Center in cooperation with the Ministry of Health and the Ministry of Family Planning and Control in 1981. The study survey included visits to workshops for setting up the plant in the field of work, the opening of the center in Bandung, and the preparation and implementation plan in the field of work. The results of the study were summarized in a report (1981) and published in a report, released in fiscal year 1982. The study was conducted in fiscal year 1980, involving the	1980	Overseas development plan survey (preliminary survey)	March 15 - 24, 1981	9	11,926
		1981	Overseas development plan survey (preliminary survey)		0	240
		1981	Overseas development plan survey	June 8 - July 5, 1981	9	40,736
		1981	Overseas development plan survey	July 15 - 19, 1981		
		1981	Overseas development plan survey (report)	September 7 - 13, 1981	6	
		1981	Overseas development plan survey	October 12 - 17, 1981		
		Cumulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Sawahlunto (Ombilin) coal development project survey	This feasibility study was on a comprehensive development plan for reviving the Ombilin coal mine in western Sumatra, and included the development of railways and a harbor. This study was continued after the soil research was completed. The field survey and reports on analytical work done in Japan were explained on-site. The final report was prepared and presented to Indonesia in fiscal year 1981. In fiscal year 1981, a hydrological survey and a survey of the demands for and types of electric power were conducted. In fiscal year 1982, analysis was conducted on the basis of the field surveys conducted in fiscal year 1981, and the final report was prepared and presented to Indonesia.	1980	Overseas development plan survey	July 22 - August 10, 1981	9	68,670
		1980	Overseas development plan survey (report)	February 22 - March 4, 1981	2	
		1981	Overseas development plan survey		0	4,164
		Cumulative total				72,834
Medan casting center establishment project evaluation survey	The purpose of this survey was to evaluate the overall feasibility of establishing a casting center (based on technical and economic considerations) by reviewing the survey previously conducted by UNIDO and the Government of Indonesia. This survey was to be used to determine the suitability of implementing the L/A concluded between the Government of Indonesia and OEFC in 1977. The field survey focused mainly on the demands for casting, the actual situation of users, the optimum size of the center to be built, optimum processes, and fund-raising plans in the Medan area. The results of this field survey (conducted in fiscal year 1980) were finalized in a report submitted fiscal year 1981. In the same year, analysis was conducted in Japan based on the records of the above field survey, while the demand for electric power and the optimum size of the power plants	1980	Overseas development plan survey (evaluation)	January 4 - 24, 1981	8	30,470
		1981	Overseas development plan survey (report)	April 27 - May 3, 1981	5	6,671
		Cumulative total				37,141
Asahan River and Riam Kiwa River hydroelectric power generation development project survey	A field survey was conducted in fiscal year 1980 on developing the No. 1 and No.3 hydroelectric power stations (with outputs of approx. mately 170 MW and 220 MW) on Sumatra, and on developing a hydroelectric power station (with an output of 42 MW) on the Riam Kiwa River in Kalimantan. An S/W discussion concerning a future feasibility study was held based on the results of the above field survey.	1980	Overseas development plan survey (preliminary survey)	December 22 - 25, 1980	4	7,560
		Cumulative total				7,560

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Riam Kiwa hydroelectric power generation project survey	<p>This project involved the development of a hydroelectric power-generating station (with a maximum output of 42 MW) using the 1,600 km² river basin area of the Martapura branch stream (in southeastern Kalimantan) to provide a new source of electric power to cope with the demand for electric power in the Banjarmasin area of Kalimantan. In fiscal year 1980, a field survey of the proposed dam site area was conducted, related data was collected, and the survey work schedule was established.</p> <p>In fiscal year 1981, such field surveys as a topographic survey, soil research, a hydrological survey, and a survey of the demands for and supply of electric power were conducted.</p> <p>In fiscal year 1982, analysis work was done, based on the results of the field surveys conducted in fiscal year 1981, and the final report was prepared and presented to Indonesia.</p>	1980	Overseas development plan survey	February 24 - March 25, 1981	6	16,099
		1981	Overseas development plan survey	July 15, 1981 - January 10, 1982	15	150,043
		1982	Overseas development plan survey (report)	September 20 - 25, 1982	3	33,234
		Cumulative total				199,376
Asahan hydroelectric power generation development project survey	<p>The purpose of this survey was to conduct a feasibility study on the development of two hydroelectric power-generating stations (180 MW and 330 MW) at the No.1 and No.3 proposed sites as a follow-up project to the Segara power station and Tangga power station. This project was to be completed as part of the staged development of the Asahan River and Toba Lake, which have an estimated hydroelectric power potential of approximately one-million kW.</p> <p>In continuation of the survey done in fiscal year 1980, on-site surveys on proposed sites No.1 and No.3, hydrologic surveying, and soil research were conducted in 1981. At the same time, analysis work was done in Japan based on the results of the above field surveys, while the demand for electric power and the optimum size of the power plants were estimated and the types of dams to be built were decided.</p> <p>In fiscal year 1982, analysis was done in Japan based on the results of field surveys done in fiscal years 1980 and 1981, and a feasibility study report was prepared and presented to Indonesia.</p>	1980	Overseas development plan survey	February 26 - March 27, 1981	5	13,405
		1981	Overseas development plan survey	July 19 - October 16, 1981	6	77,146
		1982	Overseas development plan survey	June 21 - 30, 1982	2	63,498
		1982	Overseas development plan survey (report)	September 8 - 17, 1982	4	
		Cumulative total				154,049

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Foreign trade and commerce statistical system development project survey	<p>The purpose of this survey was to develop an efficient statistical system for foreign trade and commerce, and included the collection, classification, and storage of domestic and international trade information that is essential in promoting Indonesia's commercial and industrial policies.</p> <p>A preliminary survey was conducted in fiscal year 1981. The S/W and other matters related to establishing a master plan for the data control system were discussed by considering the results of the preliminary survey conducted in September of 1981. As stipulated in the written agreement signed during the above-mentioned preliminary survey, only a field survey was conducted. As a result of this survey, Japan decided to conduct case study on the "registration of corporations" and "personnel administration," and to determine a feasible basic plan for the EDPS.</p> <p>In fiscal year 1982, the results of the field survey done in the previous fiscal year were finalized, the draft report was explained to the Indonesian side, and the final report was prepared.</p>	1981	Overseas development plan survey (preliminary survey)	September 24 - October 1, 1981	3	1,646
		1981	Overseas development plan survey (preliminary survey)	December 6 - 18, 1981	8	5,976
		1981	Overseas development plan survey	February 14 - March 15, 1982	7	12,713
		1982	Overseas development plan survey (report)	July 31 - August 5, 1982	(work done in Japan)	25,681
		Cumulative total				46,016

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Kotapadang hydroelectric power generation project survey	<p>The purpose of this survey was to examine and evaluate the technical and economic feasibility of hydroelectric power generation in the Kotapadang area of the Kampar River in central Sumatra.</p> <p>In fiscal year 1981, a preliminary survey was conducted and the S/W was signed, and the following surveys were continued:</p> <p>1 Preliminary consultation with relevant Indonesian organizations before conducting surveys, 2 field surveys (hydrologic survey, soil research, survey on transportation plans, etc.), 3 data collection (data needed for analysis, electric power data, soil research data, and data for hydrological and technical analyses), 4 preparation of an Inception Report and technical specifications, 5 assistance for contracts concluded on-site with local contractors, and 6 on-site reports.</p> <p>The interim report was prepared and presented to Indonesia in fiscal year 1982.</p> <p>In fiscal year 1983, supplemental soil research was carried out, the results of all previous surveys were finalized, then a draft final report was prepared.</p>	1981	Overseas development plan survey (preliminary survey):	September 21 - October 8, 1981	4	7,950
		1981	Overseas development plan survey	January 24 - March 6, 1982	8	27,259
		1982	Overseas development plan survey	June 24 - December 5, 1982	18	155,533
		1982	Overseas development plan survey (report)	March 6 - 15, 1983	3	
		1983	Overseas development plan survey	June 27 - December 24, 1983	5	
		1983	Overseas development plan survey	February 24 - March 11, 1984		36,516
		1983	Overseas development plan survey (report)	February 12 - 19, 1984	2	
		Cumulative total				
Energy Demand/Supply Planning System development technical cooperation survey	<p>The purpose of this survey was to establish an "energy demand/supply planning system," a priority item in Indonesia's fourth 5-year national development plan, which was scheduled to start in fiscal year 1983. Models for optimizing energy supplies (medium and long term) were prepared in fiscal year 1981. A field survey was also conducted to determine the actual situation in Indonesia related to TSO system program development and simulation using medium-term and long-term energy-demand models.</p> <p>An easy-to-use optimum model system was developed based on the analysis results of collected data. A final report was also prepared and sent to Indonesia in fiscal year 1982.</p>	1981	Overseas development plan survey	August 17, 1981 - March 18, 1982	20	27,486
		1982	Overseas development plan survey	(work done in Japan)	0	2,231
		Cumulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Industrial development project utilizing sugar by-products	This was a feasibility study on establishing a fermented product processing plant in Indonesia that would use molasses (treacle) produced as a by-product by sugar-processing plants (from existing plants and plants to be built). In fiscal year 1982, the S/W was discussed before conducting a feasibility study. The following items were discussed: 1 rational understanding of the background and contents of the request, 2 understanding the actual on-site situation, 3 inspecting the actual circumstances of industries involving activated carbon in the Philippines, 4 collecting related information, and 5 implementing a full-scale survey. The S/W was then signed. A field survey was also conducted based on the above, and the survey results were analyzed in Japan. In 1983, the draft report was explained on-site, then the final report was prepared and presented to the Indonesian side.	1982	Overseas development plan survey (preliminary survey)	August 31 - September 10, 1982	5	5,545
		1982	Overseas development plan survey	November 28 - December 25, 1982	7	31,105
		1983	Overseas development plan survey (report)	May 30 - June 5, 1983	4	17,848
		Cumulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Bangko coal utilization plan	<p>The purpose of this project was to study the feasibility of effectively using brown coal (lignite) through gasification of the abundant deposits of brown coal in the Bangko area of southern Sumatra Province. The gas obtained from the brown coal as a raw material for fuel methanol, ammonia, and fertilizer would be used to help promote industrial development in the Banko area, which was expected to be a staging area for the development of new industries.</p> <p>In 1982, a preliminary survey team was sent to clarify the actual contents of the request, and to obtain final confirmation of this project by the Indonesian government, while simultaneously conducting an on-site survey of the Banko area and confirming the required data. The S/W was discussed in terms of conducting a full-scale survey, then the S/W was signed in fiscal year 1983.</p> <p>In fiscal year 1984, a market survey on products derived from the gasification of brown coal (lignite), a survey on resources and coal mining costs, and a survey on gasification technology were conducted. The basic design of the gasification equipment was also completed. The following were carried out in fiscal year 1985: 1 preparing outcrop maps and coal layer cross-section maps for northwest Bangko and the west Bangko area, and identifying the coal quality by analyzing samples taken from these areas, 2 confirming the economy of fuel-grade methanol as an engine fuel, 3 completing the detailed design of gasification testing equipment and procuring needed machine parts. The above tasks were all completed on-site. The survey results were analyzed in Japan, then finalized in an interim report. This was discussed with the Indonesian side, and the final report was presented in fiscal year 1985.</p>	1982	Overseas development plan survey (preliminary)	November 28 - December 8, 1982	5	4,002
		1983	Overseas development plan survey (preliminary survey)	February 20 - March 4, 1984	7	9,860
		1984	Overseas development plan survey	May 9 - 31, 1984	15	
		1984	Overseas development plan survey	July 10 - 27, 1984		
		1984	Overseas development plan survey	October 23 - November 3, 1984	7	103,546
		1984	Overseas development plan survey	February 13 - 22, 1985	11	
		1984	Overseas development plan survey	March 19 - 28, 1985		
		1985	Overseas development plan survey	May 21 - June 2, 1985		
		1985	Overseas development plan survey	July 3 - October 1, 1985	35	148,642
		1985	Overseas development plan survey	December 1 - 7, 1985		
1985	Overseas development plan survey	February 24 - March 21, 1986				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
		1986				28,416
		Cumulative total				494,652
Renun hydroelectric power generation development project	This project intended to develop hydroelectric power generation, and involved the altering of the Renun River basin: This river used to flow southwest of Lake Toba in northern Sumatra, but was altered to flow into Lake Toba. Before conducting feasibility studies, an on-site survey was conducted, and the S/W was discussed and signed in fiscal year 1983. The project was evaluated, and construction plans and construction costs were estimated, preliminary designs of the power station and dam were made, a market survey on electric power was conducted, and the potentially available hydraulic power was surveyed. A final report was prepared and sent to the Government of Indonesia in fiscal year 1984.	1982	Overseas development plan survey (preliminary survey)	January 13 - 29, 1983	5	10,126
		1983	Overseas development plan survey	July 7 - October 4, 1983	10	
		1983	Overseas development plan survey	February 15 - March 15, 1984		70,642
		1983	Overseas development plan survey (report)	August 15 - August 26, 1983	1	
		1984	Overseas development plan survey	May 22 - November 1, 1984	8	72,577
		1984	Overseas development plan survey	August 24 - October 22, 1984	3	76,693
		1984	Overseas development plan survey (report)	February 14 - 28, 1985	2	
		Cumulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Second steel mill construction plan	<p>This project involved the construction of a new steel mill (to cope with the increasing demands for steel) using the natural gas discovered and confirmed in south Sulawesi, and also using electric power from the Bakat hydroelectric power plant. A preliminary survey team was dispatched in fiscal year 1983 to confirm the contents and background of the request, and an on-site survey was conducted at the same time in Ujung Pandang in southern Sulawesi. Related information was also collected. The T/R was later changed by Indonesia. Therefore, a second preliminary survey was conducted in March of 1984 to discuss the scope of Japanese aid, and to confirm the contents of the T/R. The Republic of Indonesia made an additional request for cooperation to increase the productivity of the existing plan. This included the Krakatau steel mill and an examination of the six proposed sites. After discussions were held between Japan and Indonesia, however, both sides agreed that only the feasibility study for the second steel mill would be conducted, and that this would include a demand survey, examination of the proposed sites, and the means of providing the raw materials.</p> <p>The preliminary survey was conducted and the S/W was signed in July of 1984. The demand/supply survey was conducted in November of 1984 as Phase I of the full-scale survey.</p> <p>Such field surveys as a survey on the future demand for steel in Indonesia, a study of the legal system, a distribution survey, and a feasibility study of the uses of coal and natural gas were conducted. The survey results were also analyzed in Japan, and the interim report was prepared based on the analysis results. The report was discussed with the Indonesian side, and the interim report was presented to Indonesia in fiscal year 1985.</p>	1983	Overseas development plan survey (preliminary)	August 24 - September 3, 1983	5	5,359
		1983	Overseas development plan survey (preliminary)	March 4 - March 14, 1984	6	6,825
		1984	Overseas development plan survey (preliminary survey)	July 23 - August 1, 1984	7	86,620
		1984	Overseas development plan survey	November 14 - December 11, 1984	12	
		1985	Overseas development plan survey (report)	May 8 - 15, 1985	3	26,470
		1985	Overseas development plan survey	July 11 - August 30, 1985	11	117,475
		1985	Overseas development plan survey (report)	March 3 - 8, 1986	4	
		1986				21,119
		Cumulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Plant (pulp and paper mill) renovation project	<p>The purpose of this project was to identify the problems posed by the deteriorating conditions of the Baski Ramafat plant (in eastern Java) and Padalarang plant (20 km west of Bandung). These paper mills were built using financial assistance from Japan. Items involved included the establishment of plant renovation plans to resolve the problems of equipment and facility down time due to deterioration, and increased production costs.</p> <p>In fiscal year 1983, the survey outline (S/W) was discussed and detailed market research, a raw materials survey, and plant inspection were conducted.</p> <p>The results of the full-scale survey were finalized to complete a draft report. The final draft report was explained on-site, then the final report was prepared and sent to Indonesia in fiscal year 1984.</p>	1983	Overseas development plan survey (Preliminary survey)	December 21 - 28, 1983	4	3,307
		1983	Overseas development plan survey	February 26 - March 27, 1984	10	23,358
		1984	Overseas development plan survey (report)	September 13 - 20, 1984	4	57,725
		Cumulative total				84,390
Plant (caustic soda) renovation project	<p>This was a renovation program for the PERSERO Company's Walu plant, which had been built using war reparations from Japan. The renovation outline included: 1 a process change (from the mercury method to the ion exchange - membrane method), 2 better response to market needs, 3 energy-saving and technical innovations, 4 more efficient operation, 5 increased production capacity, and 6 promoting the local salt-production industry.</p>	1983	Overseas development plan survey (preliminary survey)	February 26 - March 4, 1984	4	2,664
		1984	Overseas development plan survey	May 16 - June 5, 1984	6	51,715
		1984	Overseas development plant survey (report)	September 30 - October 6, 1984	3	
		Cumulative total				54,379

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Eastern Java electrical transmission network completion project	<p>The purposes of this project were to 1 prepare a feasible short-term program (up to 1988-1989) and conduct a feasibility study of this program, 2 determine a long-term master plan (up to the year 2004) for completing the electrical transmission network in eastern Java. The following were done in fiscal year 1983: 1 a field survey (to confirm the background and contents of the request, and including an on-site survey, the collection of data, discussions, and concluding the S/W), and 2 work in Japan (analyzing the field survey results, and preparing a preliminary survey report). At the same time, a preliminary field survey was conducted, and an inspection report was prepared.</p> <p>In fiscal year 1984, a feasibility study was conducted for both short-term and long-term projects, and discussions were held with the Indonesian side. A final report was prepared and sent to the Government of Indonesia.</p>	1983	Overseas development plan survey (preliminary survey)	November 29 - December 8, 1983	5	7,249
		1983	Overseas development plan survey	February 9 - March 9, 1984	3	14,215
		1983	Overseas development plan survey (report):	March 4 - 9, 1984	1	
		1984	Overseas development plan survey	May 22 - August 25, 1984	5	81,229
		1984	Overseas development plan survey (report)	November 26 - December 9, 1984	2	
		Cumulative total				102,693

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	
Plant equipment manufacturing industry promotion project	<p>The purpose of this project was to prepare an expansion plan for a major Indonesian national enterprise to promote the plant equipment manufacturing industry in Indonesia. This plan involved the BARATA Co., BBI Co., and BOMASTORK Co., all of which are leading Indonesian companies. These companies were visited to confirm the scope and contents of a full-scale survey, and preliminary discussions were held with the Indonesian Ministry of Industry in fiscal year 1983.</p> <p>In fiscal year 1984, the results of the preliminary survey were finalized in a report, an S/W was signed at the time of the preliminary survey, then the full-scale survey was initiated. The survey results were entered in the draft report, which was explained on-site. Later, a final report was prepared and sent to the Government of Indonesia.</p>	1983	Overseas development plan survey (contact mission)	February 12 - 18, 1984	4	3,973	
		1984	Overseas development plan survey (preliminary survey)	May 14 - 20, 1984	4	2,914	
		1984	Overseas development plan survey	July 22 - August 24, 1984	18		
		1984	Overseas development plan survey	November 11 - 20, 1984		105,163	
		1984	Overseas development plan survey (report)	December 16 - 25, 1984	5		
		Cumulative total					112,050
		Selection and confirmation surveys of mining industries in ASEAN nations	See the section on Asia in general for details.	1983	Overseas development plan survey	June 26 - July 27, 1983	(4)
Cumulative total						(387)	
Selection and confirmation surveys (plant renovation) for mining industries in ASEAN nations	See the section on Asia in general for details.	1983	Overseas development plan survey	October 30 - November 12, 1983	(4)	(828)	
		Cumulative total				(828)	

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Plant (spinning mill) renovation project	The purposes of this project were: to diagnose the problems of the Cilachap spinning mill, investigate the feasibility of mill renovation, and prepare a renovation program to increase production efficiency and product quality. In fiscal year 1984, the S/W was concluded in accordance with the preliminary survey. A full-scale survey was conducted in August, then a team was dispatched in December to explain the draft report. The final report was then prepared and sent to Indonesia.	1984	Overseas development plan survey (preliminary survey)	May 20 - 29, 1984	5	5,008
		1984	Overseas development plan survey	August 6 - 26, 1984	6	48,883
		1984	Overseas development plan survey (report)	December 17 - 25, 1984	2	
		Cumulative total				
Plant (Jakarta casting center) renovation project	The purpose of this project was to establish a renovation plan for the Jakarta casting center (operated by the state-operated Barata Co.). This center was built using a yen credit loan in 1971. This project also intended to improve center productivity for facilitating product manufacturing to satisfy market demands. In fiscal year 1984, S/W discussions were held, and the S/W was signed before a full-scale survey was initiated. In fiscal year 1985, the results of the preliminary survey completed in fiscal year 1984 were finalized in a report.	1984	Overseas development plan survey (preliminary survey)	February 13 - 22, 1985	5	6,407
		1985	Overseas development plan survey	May 30 - June 18, 1985	6	79,992
		1985	Overseas development plan survey (report)	November 11 - 20, 1985	2	
		Cumulative total				

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Plant (Cepu oil refinery) renovation project	The Cepu Training Center, the object of this project, is a governmental organization that provides education and training for petroleum and gas industry technicians. The deterioration of facilities (particularly the refinery) posed a problem for continuing the education and training being provided. The purpose of this project, therefore, was to prepare a modernization plan for these facilities. Before conducting a full-scale survey, S/W discussions were held and the S/W was signed in fiscal year 1984. A field survey was conducted in July of 1985, and the survey results were analyzed in Japan. Based on the analysis results, a modernization plan was established primarily to modernize existing facilities, and to improve the training center for petroleum and gas industry technicians. This plan was outlined in a report and an on-site report was prepared in November of 1985. The report was presented to Indonesia in fiscal year 1985.	1984	Overseas development plan survey (preliminary survey)	February 25 - March 8, 1985	6	7,091
		1985	Overseas development plan survey	July 1, - 21, 1985	6	60,609
		1985	Overseas development plan survey (report)	November 25 - December 3, 1985	5	
		Cumulative total				67,700
Central Sumatra electric power system development project	The purpose of this coordinated project was to provide connected electric power systems (for service up through 1995) to cope with the increased demands for electricity in central Sumatra. A preliminary survey was conducted, and the S/W was concluded in fiscal year 1984. Two field surveys were conducted (on the demands for electricity, condition of existing facilities, transmission line routes, and locations of transformer substations). An inception report was prepared and explained to the Indonesian side. Analysis and a detailed study (on the estimated demands for electricity, system planning, proposed transmission line routes, financial and economic analyses) were conducted based on the field survey results in fiscal year 1985.	1984	Overseas development plan survey (preliminary survey)	January 31 - February 8, 1985	4	4,511
		1985	Overseas development plan survey	June 5 - July 5, 1985	15	77,178
		1985	Overseas development plan survey	August 28 - October 6, 1985		
		1986				25,317
		Cumulative total				107,006
Selection and confirmation surveys for mining industry projects in ASEAN nations	(Indonesia, Thailand, the Philippines, Malaysia) See the section on Asia in general for details.	1984	Overseas development plan survey	August 19 - 24, 1984	1	568
		Cumulative total				568

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Purioku thermal power plant renovation cooperation project	<p>The Purioku power station, located in suburban Jakarta (the capital of Indonesia) has been operated on a full-time basis at maximum capacity thanks to its proximity to a major consumer area. The station had operational for ten years since its inception (more than 100,000 hours), and was facing various problems. This project involved a survey of feasible plans for renovation, based on economic and technical considerations.</p> <p>A preliminary survey was conducted and the S/W was concluded. A field survey (including an estimation of the demands for and supply of electric power, a detailed plant inspection, and a survey on education and training) was conducted in fiscal year 1984.</p> <p>In fiscal year 1985, renovation plans for boilers, turbines, and generators were determined, and a final report was prepared and presented to Indonesia.</p>	1984	Overseas development plan survey (preliminary survey)	September 26 - October 5, 1984	5	5,876
		1984	Overseas development plan survey	January 21 - March 15, 1985	5	20,595
		1985	Overseas development plan survey (report)	July 1 - 10, 1985	1	23,510
		Cumulative total				49,981
Chipasan hydroelectric power development project	<p>The purpose of this project was to conduct a feasibility study on the Chipasan hydroelectric power development project (in the Ci Manuk River basin of Java).</p> <p>A preliminary survey was conducted and the S/W was concluded in fiscal year 1984.</p> <p>An on-site survey, aerial survey, hydrological survey, and environmental survey were all conducted on-site. The survey results were analyzed in Japan to determine the optimum dam sites in fiscal year 1985.</p>	1984	Overseas development plan survey (preliminary)	December 11 - 20, 1984	5	6,511
		1985	Overseas development plan survey	June 24, 1985 - January 30, 1986	15	72,363
		1986				111,345
		Cumulative total				190,217

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Medium and small-sized industry promotion and development project	The purpose of this project was to prepare comprehensive measures, including financial systems, technical and management assistance, and the development of new markets, to encourage the development of medium and small-sized industries that would form the infrastructure of the Indonesian economy. These measures would enhance the added values of products, standardize quality, and increase production by introducing mechanization to these Indonesian industries. The preliminary survey included 1 the confirmation of the political purposes of the project, 2 method of selecting the types of targeted businesses, and 3 actual concepts of financial support plans. This survey was conducted, and the S/W proposals were studied in fiscal year 1984. Field surveys were conducted in June and November of 1985, and analysis work was done in Japan. Promotional measures were also determined for industries involved with metals processing based on the results of the above surveys and analysis. A draft report was prepared in fiscal year 1985, and an on-site report was submitted in February of 1986.	1984	Overseas development plan survey (pre-survey)	November 19 - 25, 1984	8	5,896
		1984	Overseas development plan survey (preliminary survey)	March 6 - 21, 1985	7	10,314
		1985	Overseas development plan survey	June 10 - September 30, 1985	19	136,894
		1985	Overseas development plan survey	November 6 - December 5, 1985		
		1985	Overseas development plan survey (report)	February 19 - 28, 1986	5	
		1986	-			170
Ranau Lake hydroelectric power development project	The purpose of this project was to build a dam to generate electricity, and a power station located downstream from Ranau Lake (upstream area of the Komering River that flows through south Sumatra Province). A preliminary survey team was dispatched during the advance stages of the feasibility study, and the S/W was signed in fiscal year 1985.	1985	Overseas development plan survey (preliminary survey)	February 13 - March 1, 1986	4	6,924
		1986				146,114
		Cumulative total				153,038

Project Name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Plant (batik textiles factory) renovation project	The purpose of this project was to establish a renovation plan that would include the repair of existing facilities and analysis of the Medali batik textiles factory in a suburb of Yogyakarta. In February of 1986 (fiscal year 1985), a preliminary survey was conducted, and the S/W was signed.	1985	Overseas development plan survey (preliminary survey)	February 13 - 23, 1986	5	6,242
		Cumulative total				6,242
Selection and confirmation surveys for mining projects in ASEAN nations	See the section on Asia in general for details.	1985	Overseas development plan survey	July 10 - 20, 1985	(1)	(370)
		Cumulative total				(370)

(Nation) INDONESIA (Overseas Development Plan Survey Programme)

(Unit: 1,000 yen)

Name of project or proposal	Fiscal year	Trainees	Survey team	Experts	Volunteers	Equipment supply	Other	Total
Generator repair plant renovation project	1986		5,826					5,826
	Cumulative total		5,826					5,826
Selection and confirmation survey on mining industry projects	1986		4,432					4,432
	Cumulative total		4,432					4,432
Batik textiles factory development project	1986		46,254					46,254
	Cumulative total		46,254					46,254
Kerinci geothermal development project	1986		104,152			46,014		150,166
	Cumulative total		104,152			46,014		150,166
Ayung hydroelectric power generation development project	1986		39,806			517		40,323
	Cumulative total		39,806			517		40,323
Other	Until 1983		6,241					6,241
	Cumulative total		6,241					6,241
Total for overseas development plan survey programme			(5, 103,907)			(654,966)		(5,758,873)

Resource development survey programme

Survey teams

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Basic survey on Sulawesi Island resource cooperation development	Feasibility study on mineral resource deposits in central Sulawesi (approximately 15,000 km ²). The potential mineral deposits were confirmed, and soil research and topographic mapping were carried out. Soil research, geochemical exploration, physical exploration, and boring were done in the eastern part of the island (4,600 km ²).	1970	Resource development	Sept. 21 - Dec. 15, 1970	18	152,079
		1971	Resource development	Oct. 29 - Dec. 29, 1971	19	65,495
		1972	Resource development	Sept. 12, 1972 - Jan. 24, 1973	15	130,040
		1973	Resource development		0	29,374
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Kalimantan area resource development cooperation basic survey	<p>The purpose of this project was investigate the potential mineral resources deposits in the Kalimantan area, and was carried out based on a request made by the Government of Indonesia. The surveyed area (approx. 36,000 km²) is located in the center of Kalimantan Island.</p> <ul style="list-style-type: none"> * Fiscal year 1974: negotiations on an agreement and field survey * Fiscal year 1975: analysis of LANDSAT data * Fiscal year 1976: aerial magnetic exploration and aerial photography * Fiscal year 1977: soil research and geochemical exploration * Fiscal year 1978: preliminary consultation with concerned organizations, and on-site assistance and supervision 	1974	Resource development	July 15 - Aug. 5, 1974	1	631
		1975	Resource development	Oct. 10 - 29, 1975	3	52,571
		1975	Resource development	Dec. 9 - 28, 1975	3	
		1976	Resource development	Apr. 30, 1976 - Mar. 31, 1977	21+(4)	183,204
		1977	Resource development	Apr. 12, 1977 - Jan. 31, 1978	12	201,846
		1978	Resource development	May 16 - Oct. 10, 1978	10	79,304
		Cumulative total				

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
Basic survey on Sumatra area resource development cooperation	The purpose of this project was to investigate the potential uranium resource deposits in central Sumatra (approx. 12,000 km ²). A survey term of three years was planned, beginning in fiscal year 1977. The preliminary survey and negotiations on an agreement were conducted in the first year.	1977	Resource development	Nov. 7 - 16, 1977	1	871
		1978	Resource development		0	1
		1979	Resource development	July 1 - 14, 1979	3	2,291
		1979	Resource development	Mar. 15 - 22, 1980	1	
			Cumulative total			
Basic survey on West Kalimantan area resource development cooperation	The purpose of this project was to investigate the potential mineral resources deposits in west Kalimantan. The surveyed area was 1,500 km ² . In the first fiscal year, soil and research was conducted on 500 km ² of this area, and soil research on the remaining 1,000 km ² was conducted in fiscal year 1980 (including extractions made from areas containing possible ore deposits. In fiscal year 1981, soil research (precise examination), geochemical exploration (precise examination), and physical exploration (IP) were conducted in Panji and Sulakain where signs of ore deposits had been noted. The layers of minerals were also analyzed.	1979	Resource development	May. 14 - Oct. 27, 1979	12	63,142
		1980	Resource development	(equipment grant)		4,231
		1980	Resource development	June 3 - Oct. 12, 1980	11	165,773
		1980	Resource development	June 23 - July 6, 1980		
		1980	Resource development	Aug. 25 - Sept. 9, 1980		
		1981	Resource development	June 8 - Sept. 15, 1981	Cumulative total 9	66,942
		1981	Resource development	Aug. 24 - Sept. 8, 1981		300,088

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)	
Northern Sumatra area resource development survey	<p>The actual results of surveys conducted in Sulawesi and Kalimantan were evaluated highly in continuation of this project. This project was carried out to analyze the soil structure of northern Sumatra through soil research, geochemical exploration, physical exploration, and boring. In fiscal year 1982, soil research on 769 km² of the area concerned was conducted. Soil research, geochemical surveying, physical exploration, and a boring survey (five boring operations 1,200 m deep) were conducted in the area concerned in fiscal year 1983. In fiscal year 1984, boring operations 2,100 m deep were carried out in potential locations within the area concerned. In fiscal year 1985, the results of the boring survey (nine boring operations 2,104 m deep) done in fiscal year 1984 (final year) were analyzed, and the final fiscal year report was prepared. The three years of survey results were finalized into a comprehensive report and sent to the Government of Indonesia.</p>	1982	Resource development	July 13 - 20, 1982	1	74,680	
		1982	Resource development	Aug. 24 - Dec. 6, 1982	7		
		1983	Resource development	May 30 - Oct. 15, 1983	16	122,466	
		1983	Resource development	Nov. 2, 1983 - Mar. 31, 1984			
		1984	Resource development	Apr. 1 - May 10, 1984	4	140,923	
		1984	Resource development	June 25, 1984 - March 23, 1985	9		
		1985	Resource development	July 28 - Aug. 3, 1985	3	18,543	
		Cumulative total					356,612
		Resource survey and follow-up survey	(Bolivia and Indonesia) See the section on the world in general for details.	1982	Resource development	July 6 - 20, 1982	3
Cumulative total						1,184	

Project name	Summary	Fiscal year	Type of survey	Survey terms	Number of team members	Expenditures (1000 yen)
South Sumatra resource development survey	The purpose of this survey was to identify areas containing potential mineral deposits by examining the metamorphosed layers of copper, lead, and zinc deposits. Soil research and geochemical exploration (rough exploration of 1,232 km ² , and 18 km ² of precise exploration) were done in the first year (fiscal year 1985). Forty-six potential sites of mineral deposits were identified in the roughly explored area, and three potential sites of mineral deposits were identified in the area of precise exploration.	1985	Resource development	Oct. 14, 1985 - Feb. 1, 1986	7	95,626
		1986				118,194
		Cumulative total				213,820

(Nation) INDONESIA

(Unit: 1,000 yen)

Name of project or proposal	Fiscal year	Trainees	Survey teams	Experts	Volunteers	Equipment supply	Other	Grand total
Total for resource development survey programme			1,769,411			33,934		1,803,345

[GRANT AID Programme]
Grant aid projects

1990-1991

1991-1992

1992-1993

1993-1994

Name of project	Project Outline	Date of E/N agreement	Amount (¥100 million)	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Domestic electric communication network expansion project	Equipment grant for such electrical communications equipment as transmitters and receivers to expand Indonesia's communication network between Jakarta, Bandung, Semarang, Yogyakarta, and Surabaya.	Aug. 13, 1977	2.4					
Animal health care research center establishment project	Domestic animal health care (veterinary care) research centers to diagnose and prevent various domestic animal diseases, and to train technicians, were built in Medan (north Sumatra Province) and in Tanjungkarang (Lampung Province).	August 16, 1977	6					
Ujung Pandang Seamen's School establishment project	The Seamen's School was established in Ujung Pandang to train seamen needed to man the increasing number of ships being acquired as part of the "Marine Transportation Reinforcement Five-year project" that began in 1975.	Nov. 21, 1978	10.5	1975	Preliminary survey	May 25 - June 18, 1975	5	Development survey
					Basic design	Oct. 19 - Nov. 15, 1977	9	
					Explanation of reports:	Feb. 20 - March 4, 1978	6	
					Expediting the execution	May 31 - June 10, 1979	(2)	(172)
					Expediting the execution	Nov. 12 - 23, 1979	(3)	(298)
					Expediting the execution	Apr. 4 - 12, 1980	(2)	(158)
					Cumulative total			628
Fisheries survey training project	Grant aid for fisheries survey ship(s) needed for the development of fishing grounds and for supporting resource surveys	February 17, 1979	6	1980	Expediting the execution	Apr. 4 - 12, 1980	(2)	(158)
				1985	Follow-up survey	Sept. 16 - 24, 1985	((3))	((995))

Name of project	Project Outline	Date of E/N agreement	Amount (¥100 million)	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Nurse education facilities establishment research project	A center to train nurses for public health care (training school) was established in Ujung Pandang, and a nurse training development center was established in Jakarta to increase the levels of health care and medical care in regional farm village areas.	November 1, 1979	15	1978	Preliminary survey	Aug. 9 - 22, 1978	6	Development survey
				1978	Basic design	Oct. 22 - Nov. 15, 1978	4	
				1978	Explanation of reports	Feb. 18 - 27, 1979	4	
				1979	Expediting the execution	May 31 - June 10, 1979	(2)	(172)
				1979	Expediting the execution	Nov. 12 - 23, 1979	(3)	(298)
				1979	Expediting the execution	Apr. 4 - 12, 1980	(2)	(158)
				Cumulative total				
South Sumatra test afforestation research and development center establishment project	Training facilities and accommodation facilities were established to provide afforestation training and the transfer of technology through test afforestation in south Sumatra Province.	March 25, 1981	1	1979	Basic design	Feb. 9 - 18, 1980	8	

Name of project	Project Outline	Date of E/N agreement	Amount (¥100 million)	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Agricultural technician center establishment project	Centers to train agricultural developers were established in Batangkaluku (south Sulawesi Province) and in Cihea (western Java Province).	September 29, 1980	4	1979	Basic design	Apr. 9 - 28, 1980	7	Development survey
				1980	Expediting the execution	June 8 - June 21, 1980	(2)	(159)
				1980	Expediting the execution	Dec. 14 - 21, 1980	(1)	(112)
				Cumulative total				271
Irrigation Drainage Technological Center establishment project	A center was built for research and the training technicians involved with irrigation and drainage maintenance, and for administration involving the technical aspects of collecting, managing, and using data.	June 17, 1980	15	1978	Basic design	Nov. 24, 1978 - Dec. 5, 1979	4	Development survey
				1978	Explanation of reports	Mar. 5 - 10, 1979	2	
				1979	Basic design (secondary)	Nov. 6 - 20, 1979	2	
				1980	Expediting the execution	June 8 - 21, 1980	(2)	(159)
				1980	Expediting the execution	Dec. 14 - 21, 1980	(1)	(112)
				Cumulative total				271

Name of project	Project Outline	Date of E/N agreement	Amount (¥100 million)	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Biomass Energy Research and Development Center establishment project	The Biomass Energy Research and Development Center was established to conduct a variety of technological research and development. An equipment supply was also provided for alcohol production using cassava as an alternative energy source. This involved the procuring of raw materials from farmers (who had immigrated to permanent settlements) to increase farmer income and at the same time, support Indonesia's important immigration promotion policy.	Oct. 12, 1981 -	15.5	1980	Preliminary survey	Dec. 15 - Dec. 24, 1980	5	
		Dec. 20, 1984	0.66	1980	Basic design	Mar. 10 - 30, 1981	12	
				1981	Explanation of reports	June 23 - 30, 1981	4	
				1984	Expediting the execution	Dec. 3 - 7, 1984	1	506
				Cumulative total				
Riam Kanan Terminal irrigation facilities construction project	Terminal irrigation facilities were built for approx. 600 ha of land as part of an agricultural project involving 2,500 ha for the double cropping of rice in Riam Kanan (south Kalimantan Province).	October 12, 1981	7.6	1981	Basic design	Aug. 20 - Sept. 18, 1981	6	Development survey

Name of project	Project Outline	Date of E/N agreement	Amount (¥100 million)	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Regional development training center establishment project	Equipment needed at the training center to train technicians, settlers regional leaders for promoting increased settlement and development of regional areas.	June 20, 1981	3	1981	Expediting the execution	Dec. 10 - 15, 1981	1	460
				1982	Expediting the execution	Aug. 17 - 27, 1982	1	617
				1982	Expediting the execution	Feb. 24 - Mar. 14, 1983	(1)	1,691
				1982	Expediting the execution	Mar. 25 - Apr. 8, 1983	1	
				1983	Expediting the execution	-	-	8
				1985	Follow-up survey	Sept. 16 - 24, 1985	((3))	((995))
								3,771
Chemical industry training and development center establishment project	This center was established to train essential technicians for chemical-related industries, provide assistance to chemical companies, and to help Indonesia reach its goal of increased industrial growth.	June 20, 1981	17.3	1979	Preliminary survey	Dec. 3 - 23, 1979	7	
				1979	Basic design	Mar. 20 - Apr. 9, 1980	7	Development survey
				1980	Explanation of reports	June 2 - 11, 1980	5	

Name of project	Project Outline	Date of E/N agreement	Amount (¥100 million)	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Radio and Television Broadcasting Training Center establishment project	A training center was established for the radio and television division. This center is part of a multi-media training center that trains radio, television, and movie industry technicians in Yogyakarta	August 20, 1982	18	1980	Preliminary survey	Jan. 26 - Feb. 6, 1981	6	Development survey
				1981	Basic design	Sept. 11 - Oct. 3, 1981	10	
				1981	Explanation of reports	Feb. 3 - Feb. 7, 1982	5	
				1983	Expediting the execution	Jan. 17 - 28, 1984	(2)	(434)
				Cumulative total				434
Soil research institute establishment project	The Government of Indonesia had been collecting basic data for the development of underground resources, but this had not been done efficiently. Because the Government of Indonesia wanted to promote research in this area, the soil research institute was established to conduct research on underground resources at one unified location, as well to train the personnel needed for development.	August 20, 1982	3.75	1981	Basic design	Nov. 11 - Dec. 1, 1981	6	Development survey
				1982	Expediting the execution	Feb. 18 - 22, 1983	1	276
				1983	Expediting the execution	Sept. 29 - Oct. 7, 1983	(3)	844
				Cumulative total				1,120

Name of project	Project Outline	Date of E/N agreement	Amount (¥100 million)	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Vocational training instructors and small industry developer training center establishment project	The establishment of training facilities for vocational training instructors and developers of small-scale industry had become an urgent matter in Indonesia.	July 9, 1983	30	1982	Preliminary survey	Oct. 11 - 20, 1982	2	Development survey
				1982	Basic design	Jan. 16 - Feb. 4, 1983	6	
				1983	Explanation of reports	Apr. 20 - 27, 1983	3	
				1983	Expediting the execution	Jan. 11 - 22, 1984	(2)	(461)
				1985	Expediting the execution	Jan. 27 - Feb. 2, 1986	((4))	3,364
				1985	Evaluation (survey)	Nov. 27 - Dec. 5, 1985	3	
				Cumulative total				
National Quality Control Laboratory establishment project	Establishment of facilities needed to expand and support existing facilities to eliminate inferior - quality medicinal drugs and unhealthy foods, and to supply drugs and more nutritious foods	July 9, 1983	13.86	1982	Basic design	Feb. 28 - Mar. 29, 1983	6	Development survey
				1983	Explanation of reports	June 30 - July 9, 1983	5	
Veterinary drug examination laboratory establishment project	The Republic of Indonesia had no national organization or examination standards to conduct quality testing to determine the effects and safety of veterinary drugs. Consequently the livestock of farmers had suffered adverse side effects from inferior-quality drugs, which caused problems in raising livestock. Therefore, a veterinary drug examination laboratory was established, and equipment was granted.	September 13, 1983	9.6	1982	Basic design	Mar. 30 - Apr. 24, 1983	6	Development survey
				1983	Examination of reports	July 18 - 26, 1983	4	

Name of project	Project Outline	Date of E/N agreement	Amount (¥100 million)	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Galunggung volcano debris flow surveillance and warning system	The Galunggung volcano had been active since its eruption in April of 1982. Therefore, Japan granted warning system-related equipment to establish an effective warning system for preventing disaster caused by debris from this volcano.	July 9, 1983	3.6	1983	Expediting the execution	Aug. 10 - 17, 1983	3	1,634
				Cumulative total				1,634
Bogor Agricultural University expansion project	Grant aid for the construction of facilities and research equipment required for expanding Bogor Agricultural University, the most important base of advanced agricultural education through well-rounded agricultural education	September 21, 1984	23.4	1983	Preliminary survey	Nov. 20 - 27, 1983	2	Development survey
				1983	Basic design	Feb. 16 - Mar. 7, 1984	8	
				1984	Explanation of reports	May 29 - June 6, 1984	4	

[GRANT AID]
Grant aid projects

Name of project	Project Outline	Date of E/N agreement	Amount (¥100 million)	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)	
Dr. Tjipto Mangunkusumo Hospital Emergency Treatment Center construction project	Construction of an emergency medical treatment center to serve a wide area (including expansion of the emergency department of the Dr. Tjipto Mangunkusumo hospital, and reinforcement of the emergency transport system)	September 21, 1984	22.72	1983	Preliminary survey	Jan. 16 - 25, 1984	3	Development survey	
				1983	Basic design	Mar. 30 - Apr. 17, 1984	8		
				1984	Explanation of reports	June 14 - 23, 1984	5		
				1986					403
				Cumulative total					403
Agricultural diseases and insect pests :forecast and control project (I, II)	(I) Necessary equipment was granted for existing facilities to provide effective and economical control of rice crop damage caused by disease and insect pests	April 28, 1985	4.45	1984	Preliminary survey	June 20 - 29, 1984	3	Development survey	
		February 28, 1986	20.16	1985	Basic design		7	38,603	
				1985	Explanation of reports	Dec.10 - 17, 1985	4		
				1961					14,909
			Cumulative total						
(III)									
Antara News Agency improvement project	News collection and distribution by the state-operated Antara News Agency was computerized, and the equipment needed to achieve speedy work operations was granted.	April 26, 1985	7.25	1985	Expediting the execution	May 22 - 31, 1985	((2))	((1,091))	
				Cumulative total				1,091	

Name of project	Project Outline	Date of E/N agreement	Amount (¥100 million)	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)	
Aid for increasing food production	Grant aid including agricultural machines, agricultural chemicals, etc.	March 18, 1985	22	1985	Expediting the execution	May 22 - 31, 1985	((2))	2,872	
		December 30, 1985	25.0	1985	Expediting the execution	Dec. 16 - 24, 1985	1		
				1985	Expediting the execution	Jan. 27 - Feb. 2, 1986	((4))		
				1986					15,104
				Cumulative total					17,976
Telephone line maintenance training center construction project	Construction of a maintenance center in the Bandung area to expand communication services	December 30, 1985	5.57						
Padjadjaran University Japanese Studies Center construction project	Construction of a Japanese language center staffed by the faculty of Japanese language studies at Padjadjaran University	December 30, 1985	6.54	1985	Basic design	June 26 - July 18, 1985	6	24,174	
				1985	Explanation of reports	Sept. 24 - Oct. 5, 1985	4		
									24,174
Appropriate agricultural machine technology development center construction project	Establishment of a center for development, improvement, testing, and approval of agricultural machines and equipment, the technological systemization of mechanized agricultural work, and the training of technicians to be employed by agricultural machine manufacturers, etc.	February 28, 1986	17.49	1985	Preliminary survey	June 22 - 30, 1985	1	30,656	
					Basic design	Aug. 12 - Sept. 1, 1985	6		
					Explanation of reports	Nov. 20 - 27, 1985	4		
				Cumulative total					30,656

Name of project	Project Outline	Date of E/N agreement	Amount (¥100 million)	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Afforestation equipment grant aid plan	Grant aid providing equipment needed for mechanical afforestation to re-establish forests that were devastated by man	April 2, 1986	4.81	1986				460
				Cumulative total				460
Electronics Engineering Polytechnical Institute establishment plan	Establishment of an electronics engineering polytechnical institute (attached to Surabaya Engineering University) to train technicians for the electronics field			1985	Preliminary survey	July 21 - Aug. 3, 1985	1	12,331
				1985	Basic design	Dec. 1 - 22, 1985	7	
				1985	Explanation of reports	Mar. 13 - 25, 1986	4	
				1986				12,968
				Cumulative total				25,299
Volcanic Sand Guard Technical Center improvement plan	Improvement of materials, equipment, and necessary facilities to support the activities of the Volcanic Sand Guard Technical Center, in Yogyakarta			1985	Basic design	Mar. 6 - 29, 1986	6	10,460
				1986				15,995
				Cumulative total				26,455
Project-finding survey	(Burma and Indonesia) New proposals were made.	-	-	1985	Preliminary consultation on project(s)	Feb. 16 - 22, 1986	(3)	(753)
				Cumulative total				(753)

(Nation) INDONESIA (Grant aid programme)

(Unit: 1,000 yen)

Name of project or proposal	Fiscal year	Trainees	Survey team	Experts	Volunteers	Equipment supply	Other	Grand total
Medicinal drug quality control laboratory construction project	1986 Cumulative total		403 403					403 403
Parawaija crop production basic research	1986 Cumulative total		29,571 29,571					29,571 29,571
Foreign trade training center construction project	1986 Cumulative total		912 912					912 912
Laterite refinery research institute establishment project	1986 Cumulative total		22,615 22,615					22,615 22,615
Ujung Pandang Seamen's School improvement project	1986 Cumulative total		23,059 23,059					23,059 23,059
Tropical Rainforest Training Center construction project	1986 Cumulative total		22,081 22,081					22,081 22,081
Other	Until 1983 Cumulative total		5,103 5,103					5,103 5,103
(Total for grant aid programme)			(299,392)					(299,392)

Development cooperation programme

Development: Preliminary surveys

Survey team

Name of project	Outline	Fiscal year	Type of survey			
			Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit:1000 yen)
South Sumatra (Benakat) afforestation development cooperation	<p>When the head of the Forestry Bureau of Indonesia visited Japan in 1972, he requested Japan's technical cooperation regarding afforestation efforts in Indonesia.</p> <p>In response to the Indonesian request, Japan conducted a preliminary survey to understand current conditions and problems by considering various administrative system, technological, and organizational aspects before proceeding with afforestation efforts in Indonesia. Discussions were held between both nations regarding Japan's role, and at the same time, appropriate locations were selected for afforestation.</p> <p>Field surveys were conducted to determine the basic concepts of the afforestation project involving the grassy plains in southern Sumatra, which was identified as a promising location for an afforestation project (based on the results of the preliminary survey). The necessary advice and data were collected through discussions held between the survey team and concerned parties (such as the Government of Indonesia) regarding the procedures for promoting this development cooperation.</p> <p>An S/W was concluded in fiscal year 1977, and mapping operations were carried out based on the S/W.</p> <p>A final feasibility study was done in fiscal year 1978, and both soil research and afforestation plans were established.</p>	1975	Preliminary survey	June 1 - 20, 1975	4	4,200
		1975	Preliminary survey	Nov. 26 - Dec. 21, 1975	6	6,620
		1976		(preparation of reports on the above)	0	956
		1977	Development plan survey	Aug. 17 - Sept. 2, 1977	6	24,774
		1978	Development plan survey	June 20 - July 29, 1978	9	45,297
		1978	Development plan survey	Dec. 20, 1978 - Jan. 28, 1979	1	
		1979		(preparation of reports on the above, technical costs)		19,159
		Cumulative total				

Name of project	Outline	Fiscal year	Type of survey			
			Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit:1000 yen)
Central Sulawesi forestry development cooperation	The purposes of this project were to study the feasibility of regional development through forestry (development of uses for previously unused types of trees in the tropical rain forest). This project involved the afforestation of previously logging sites, and encouraging plantations to contribute to regional development in the Togian Islands. Two preliminary surveys were conducted. A basic on-site survey was conducted, related data was collected and analyzed, and discussions were held with the Government of Indonesia. In fiscal year 1977, development was clarified according to the primary basic concepts established by the surveys.	1975	Preliminary survey	Mar. 25 - Apr. 11, 1976	4	3,704
		1976		(preparation of reports on the above)	0	681
		1976	Preliminary survey	Oct. 8 - Nov. 4, 1976	8	33,910
		1977		(preparation of reports on the above)	0	434
		1977	Development plan survey	May 9 - June 11, 1977	4	18,049
		1977	Development plan survey	Sept. 27 - Oct. 21, 1977	5	21,299
		1978		(preparation of reports for the above)	0	527
		Cumulative total				78,604
Forestry cooperation	The survey team held discussions with the Government of Indonesia on the contents of work plans and procedures for promoting future cooperation to ensure smooth cooperation regarding forestry.	1976	Consultation	Aug. 5 - 14, 1976	4	2,117
		Cumulative total				2,117

Name of project	Outline	Fiscal year	Type of survey			
			Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit:1000 yen)
Sumatra agricultural development cooperation	Large-scale planting had been done in Indonesia for oil palm cultivation in central Sumatra, which offers a suitable natural environment. There is, however, a vast area of unused forests in the northwestern part of the island, which includes the Meulaboh area. The development of this area through oil palm cultivation was strongly desired. The survey team held discussions with Indonesian government officials and the provincial government, then conducted field surveys in the proposed area to study the feasibility of participation by private Japanese corporations. The survey team also contributed to the study of development cooperation, which was the purpose of the survey.	1976	Preliminary survey	Oct. 14 - Nov. 3, 1976	6	5,764
		Cumulative total				5,764
Togian Islands agricultural development cooperation	The purposes of this survey were to clarify the possibility of agricultural development in sites where logging had been done on the Togian Islands. This development was to be done by selecting and introducing crops to be cultivated, and at the same time, to investigate the possibility of development cooperation by the private sector. After the preliminary survey was conducted in fiscal year 1978, a development plan survey was conducted in fiscal year 1979. The basic design of trial projects for agricultural development (spices, rice, and coconut palms, etc.) were completed, and the effects of development cooperation were measured.	1978	Preliminary survey	Mar. 15 - Apr. 4, 1979	6	5,161
		1979		(preparation of reports on the above, technical costs)	0	2,915
		1979	Development plan survey	Mar. 20 - Apr. 9, 1980	6	5,212
		1980		(preparation of reports on the above, technical costs)	0	2,549
		Cumulative total				15,837

Name of project	Outline	Fiscal year	Type of survey			
			Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit:1000 yen)
Development cooperation for using unused types of trees in central Kalimantan	Obligatory lumber processing has been enforced in Indonesian foresting development activities. Therefore, a pattern had developed in which high-quality lumber is shipped as logs, and trees unusable for lumber are processed on-site. This survey selected central Kalimantan (a major source of South Pacific lumber) as the subject area. The situation of the lumber-processing industry and the basic forms of processing and distribution of trees unusable as lumber were surveyed on-site. At the same time, the feasibility of participation by private Japanese corporation in this area was also studied.	1979	Preliminary survey	July 9 - 28, 1979	6	9,092
		Cumulative total				9,092
Northern Sulawesi Forestry Development Corporation	Because the western area of Indonesia's northern Sulawesi Province has many useful types of trees, it was considered a suitable development site. Due to an inadequate infrastructure (including a lack of roads, etc.), development had not progressed as planned. The purposes of this survey were no determine the necessary logging plan for developing this area, a plan for providing the necessary facilities for the logging plan, to clarify the possibility of processing previously unusable trees by conducting trial projects related to afforestation, and to offer incentives to private Japanese corporations.	1979	Preliminary survey	July 9 - July 28, 1979	6	7,7533
		Cumulative total				7,7533
Forestry development cooperation of the Barito River Upper Basin	Because forestry development projects in the lowlands of Kalimantan apparently reached their limits, the development of mountain forests was receiving attention. This survey determined the feasibility of developing previously unused forest areas, and of afforestation in the upper reaches of the Barito River in central Kalimantan. At the same time, a field survey was conducted to establish the basic concept for an equipment plan for the necessary development facilities, and to check the existing infrastructure and investment environment.	1979	Preliminary survey	Feb. 27 - Mar. 15, 1980	5	11,351
		1980		Preparation of reports	0	678
		1980	Development plan survey	Aug. 3 - 9, 1980	1	
		1980	Development plan survey	Oct. 3 - Nov. 22, 1980	5	23,561
		1980	Development plan survey	Oct. 29 - Nov. 18, 1980	4	
		1981		(Technical costs, etc.)	0	25,903
		Cumulative total				61,493

Name of project	Outline	Fiscal year	Type of survey			
			Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit:1000 yen)
South Sumatra rattan plantation development cooperation	The purpose of this survey was to investigate the feasibility of test afforestation (selecting types of trees to be tested, suitable locations, processing technique levels, investment environment) in the Palembang area of south Sumatra Province, as well as to determine the basic concepts for the trial afforestation project. In fiscal year 1980, the major rattan-producing areas (south Sumatra, Kalimantan central Sulawesi) were surveyed on-site, and a study was made of the various requirements for participation by private Japanese corporations.	1980	Preliminary survey	Mar. 24 - Apr. 13, 1981	5	5,153
		1981		(Settlement of accounts for travel costs for the above)	0	6
		1981		(preparation of reports)	0	726
		Cumulative total				5,885
Survey on improving facilities related to Nusuntala cement manufacturing plant	The purposes of this project were to contribute to smooth plant operation by improving the harbor facilities required by the Nusuntala cement manufacturing plant in Cilacap (Java), and to help develop the regional economy. In fiscal year 1980, an infrastructure survey, water area survey, regional survey, and a survey on social and economic conditions were conducted.	1980	Improvement survey on related facilities	August 31 - Sept. 29, 1980	7	34,609
		Cumulative total				34,609
Sago palm development corporation	(Indonesia and Malaysia) See the section on Asia in general for details.	1980	Preliminary survey	June 3 - 18, 1980	(6)	(2,549)
		Cumulative total				2,549
Castor oil plant development corporation	(The Philippines and Indonesia) See the section on Asia in general for details.	1983	Preliminary survey	Aug. 30 - Sept. 14, 1983	(6)	(2,661)

Name of project	Outline	Fiscal year	Type of survey			
			Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit:1000 yen)
Project for improving facilities related to ammonia manufacturing in south Sulawesi	The purposes of this project were to improve the welfare of local residents, and to help develop the local economy by improving such related infrastructural elements as power stations, schools, hospitals, churches, harbor facilities, and water supply systems, related to the project for manufacturing ammonia (using natural gas produced in the Singkang area of Sulawesi). The survey team explained the goals of the improvement project for related facilities to organizations associated with the Indonesian government, while collecting data regarding Indonesian plans for national development and development plans for individual sectors and areas in south Sulawesi, as well as conducting a basic survey.	1984	Preliminary survey	Mar. 4 - 15, 1985	6	8,620
		1985	Preliminary survey	(preparation of reports)	0	378
		Cumulative total				8,998
Development cooperation for processing and using valuable decorative timber	Trees used to provide decorative wood were found among the types of unused trees in-west-Irian. A survey was conducted on general conditions, current forest and local forestry conditions, the use and development of valuable decorative timber. A survey on the overseas market for decorative lumber, foreign currency policies, and the investment environment was also conducted to clarify the feasibility of development from a commercial viewpoint.	1984	Preliminary survey	May 1 - 16, 1984	6	6,518
		Cumulative total				6,518
Market garden crop development cooperation	The feasibility of introducing and producing suitable vegetable seeds on-site, and cultivating high-quality vegetables in western Java and northern Sumatra was investigated for a plan to produce high-quality vegetables in Indonesia. This was to be done having Japanese companies by establish cultivation techniques and introduce superior varieties to cope with the domestic demand and exports to Singapore. Problems arising during the vegetable and seed production development project were also clarified, and the project's potential was measured.	1985	Preliminary survey	Sept. 18 - Oct. 2, 1985	6	7,509
		Cumulative total				7,509
Improvement project for "butasu"-related facilities in southeastern Sulawesi	Information relating to the development projects for individual areas and sectors in southeastern Sulawesi was collected and analyzed in a preliminary survey (feasibility study) on the infrastructure related to the natural asphalt ("butasu") of Buton Island. At the same time, the possibility of conducting a full-scale feasibility study, and the scope of the survey, were also determined.	1985	Preliminary survey	Jan. 20 - Feb. 4, 1986	6	10,143
		1986				212
		Cumulative total				10,355

Name of project	Outline	Fiscal year	Type of survey			
			Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit:1000 yen)
Mamuju forestry development cooperation	The scale of forest resources in the Mamuju forest area in south Sulawesi Province was confirmed. At the same time, such important development factors as roads and bridges were also surveyed, and a development plan for the Mamuju forest area, and a basic plan for road and bridge construction were prepared based on the survey results.	1985	Preliminary survey	Apr. 1 - 15, 1986	7	8,328
		1986				8,915
		Cumulative total				17,243

Survey on Investment and Financial Cooperation

Survey team

Name of project	Outline	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)								
Survey on Balikpapan area forestry investment and financial cooperation	A survey on the need and appropriateness of the project (subject to loans and confirmation of authorization by the Government of Indonesia) was conducted for this project before financial cooperation was provided for the forestry development project in Balikpapan (east Kalimantan).	1974	Financial cooperation	Mar. 2 - 9, 1975	4	1,799								
		Cumulative total				1,799								
Related facilities improvement project financing survey	1. Survey before making loans to fund the infrastructural facilities improvement project accompanying the cement development project in the Cilacap area of central Java. 2. Survey after making loans to fund the infrastructural facilities improvement project accompanying the forest development project in the Meulaboh region of Aceh Province in northern Sumatra.	1975	Financial cooperation	June 2 - 17, 1975	3	1,807								
		Cumulative total				1,807								
Survey on agricultural development investment and financial cooperation	1. Survey conducted after making loans for drying and storage facilities related to the corn development project in Lampung Province of south Sumatra (item transferred from Overseas Trade) 2. Survey conducted after making loans to fund the medicinal herb development project and the related facilities development project in western Java 3. Survey conducted after making loans to fund the sugar manufacturing industry development project in south Sulawesi Province	1975	Financial cooperation	Aug. 4 - 21, 1975	3	2,150								
		Cumulative total				2,150								
Survey on investment and financial cooperation	Projects subject to survey	1975	Financial cooperation	Oct. 20 - Nov. 1, 1975	3	1,619								
		Cumulative total				1,619								
		<table border="1"> <thead> <tr> <th>Project name</th> <th>Name of fund</th> <th>Contents of related project</th> </tr> </thead> <tbody> <tr> <td>(1) Padeko forestry development project</td> <td>Related facilities improvement fund</td> <td>Construction of roads and clinics</td> </tr> <tr> <td>(2) Malino afforestation trial project</td> <td>Trial afforestation fund to fund the related afforestation trial project</td> <td>Trial afforestation of Taiwanese paulownia (trees)</td> </tr> </tbody> </table>			Project name	Name of fund	Contents of related project	(1) Padeko forestry development project	Related facilities improvement fund	Construction of roads and clinics	(2) Malino afforestation trial project	Trial afforestation fund to fund the related afforestation trial project	Trial afforestation of Taiwanese paulownia (trees)	
Project name	Name of fund	Contents of related project												
(1) Padeko forestry development project	Related facilities improvement fund	Construction of roads and clinics												
(2) Malino afforestation trial project	Trial afforestation fund to fund the related afforestation trial project	Trial afforestation of Taiwanese paulownia (trees)												

Name of project	Outline	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Related facilities improvement project financing survey	Survey before making loans to fund the infrastructural facilities improvement project accompanying the aluminium refinery project in northern Sumatra Province	1975	Financial cooperation	Jan. 12 - 28, 1976	4	2,332
		Cumulative total				2,332
Survey on investment and financial cooperation	Survey before making loans to fund the black tea trial project in the Malino area of south Sulawesi	1976	Financial cooperation	April 27 - May 9, 1976	3	1,891
		Cumulative total				1,891
Survey on forestry development investment and financial cooperation	<ol style="list-style-type: none"> 1. Surveys before and after making loans to fund the related facilities improvement project for the Mongoli forestry development project on Mongoli Island 2. Surveys before and after making loans (items transferred from Overseas Trade) to fund the related facilities improvement project for the Taliabu forestry development on Taliabu Island 3. Survey after making loans (item transferred from Overseas Trade) to fund the related facilities improvement project for the Sumangs forestry development project in south Sumatra 4. Survey after making loans to fund the trial afforestation for the northern Sumatra trial afforestation project 	1976	Financial cooperation	Feb. 7 - Mar. 1, 1977	3	2,983
		Cumulative total				
Related facilities improvement project financing survey	(Indonesia and Malaysia) See the section on Asia in general for details.	1976	Financial cooperation	Dec. 2 - 17, 1976	(2)	(841)
		Cumulative total				841
Survey on forestry development investment and financial cooperation	<ol style="list-style-type: none"> 1. Survey after making loans to fund the related facilities improvement project in the Berau area of east Kalimantan 2. Survey after making loans to fund the related facilities improvement project in the Tarakan area of east Kalimantan 	1977	Financial cooperation	Oct. 5 - 19, 1977	3	1,978
		Cumulative total				

Name of project	Outline	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Survey on agricultural investment and financial cooperation	(Indonesia, Thailand, and the Philippines) See the section on Asia in general for details.	1977	Financial cooperation	Oct. 4 - 25, 1977	(5)	(1,606)
		Cumulative total				1,606
National housing trial project and financing feasibility survey	(Indonesia and Singapore) See the section on Asia in general for details.	1977	Financial cooperation	Feb. 420 - Mar. , 1978	(3)	(804)
		Cumulative total				804
Survey on mining industry investment and financial cooperation	(Indonesia, Malaysia, and Singapore) See the section on Asia in general for details.	1977	Financial cooperation	Feb. 22 - Mar. 4, 1978	(4)	(651)
		Cumulative total				651
Survey on forestry investment and financial cooperation	1. Survey after making loans to fund the related facilities improvement project related to the Padeko forestry development project in south Sumatra 2. Survey after making loans to fund the Katingan forestry development project in central Kalimantan	1978	Financial cooperation	July 2 - 19, 1978	3	2,079
		Cumulative total				2,079
Survey on Asahan investment and financial cooperation	(Name of area subject to survey) Northern Sumatra, Republic of Indonesia (Purpose) Approval of loan for related facilities improvement accompanying the aluminium development project to be carried out	1978	Financial cooperation	Jan. 21 - 30, 1979	5	2,254
		1979	Financial cooperation	Jan. 20 - 30, 1980	4	1,784
		Cumulative total				4,038

Name of project	Outline	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Survey on forestry investment and financial cooperation	Survey after making loans to fund the related facilities improvement project and trial afforestation project in Balikpapan	1979	Financial cooperation	Dec. 12 - 21, 1979	3	1,721
		1980				202
		Cumulative total				1,923
Survey on agricultural investment and financial cooperation	(Indonesia and Thailand) See the section on Asia in general for details.	1979	Financial cooperation	June 25 - July 9, 1979	(4)	(1,201)
		Cumulative total				1,201
Related facilities improvement project financing feasibility survey	(Indonesia and the Philippines) See the section on Asia in general for details.	1979	Financial cooperation	Nov. 12 - 24, 1979	(3)	(885)
		Cumulative total				885
National housing trial project post-financing survey	This survey involved the construction of 13 low-cost state-built housing units as a trial project for low-cost housing in Indonesia. The structural strength of building materials, earthquake resistance, and fire resistance were tested to establish standards for low-cost housing, and to help popularize state housing throughout Indonesia. A loan of ¥130 million was obtained for this trial project. Due to inflationary factors, however, including the devaluation of the rupiah, the initial plan was scaled down to construct ten housing units to achieve the purpose of this project. The survey team was dispatched to 1 understand how the funds were used, and confirm the progress of repayment according to with the modified (reduction) plan, and 2 complete testing the characteristics of the trial housing, and confirm the periodic reports of test results.	1980	Financial cooperation	Mar. 14 - 21, 1981	3	1,122
		Cumulative total				1,122

Name of project	Outline	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)
Survey on forestry development project investment and financial cooperation	1. Survey before and after making loans to fund the Malino trial afforestation project and loan feasibility system, and projects. 2. Survey after making loans to fund the Togian related facilities development project, trial afforestation project, and trial development project for previously unused trees	1980	Financial cooperation	Jan. 21 - Feb. 5, 1981	3	2,198
		1981		(preparation of reports)		388
		Cumulative total				2,586
Survey on investment and financial cooperation	(The Philippines and Indonesia) See the section on Asia in general for details.	1980	Financial cooperation	Dec. 4 - 19, 1980	(4)	(1,415)
		Cumulative total				1,415
Survey on investment and financial cooperation	1. Post-loan development survey on the cassava cultivation test project in Lampung 2. Post-loan survey on the medicinal herb test project in Java 3. Post-loan survey on the south Sulawesi black tea cultivation test project	1981	Financial cooperation	Dec. 2 - 19, 1981	3	2,497
		Cumulative total				2,497
Survey on investment and financial cooperation	Implementation of post-loan survey on related facilities development for the aluminium refinery development project in northern Sumatra Province	1981	Financial cooperation	Feb. 13 - 24, 1982	5	2,772
		Cumulative total				2,772
Survey on rock asphalt investment and financial cooperation	A survey before making loans to fund the rock asphalt test project was conducted in fiscal year 1982, and another survey was conducted during the loan term in fiscal year 1985.	1982	Financial cooperation	July 29 - Aug. 7, 1982	3	1,975
		1985	Financial cooperation	Dec. 2 - 14, 1985	4	3,077
		Cumulative total				5,052

Name of project	Outline	Fiscal year	Type of survey	Survey term	Number of team members dispatched	Expenditures (Unit: 1000 yen)	
Survey on investment and financial cooperation	(Indonesia and Malaysia) Explanation of investment and loan feasibility system, and project-finding survey	1983	Financial cooperation	Mar. 20 - 31, 1984	(4)	(1,488)	
		Cumulative total				1,488	
Survey on Asahan investment and financial cooperation	Surveys (during the loan term) on the facilities related to the Asahan aluminium refinery development project were conducted in fiscal year 1983 and 1985.	1983	Financial cooperation	Nov. 18 - 29, 1983	5	3,329	
		1984	Financial cooperation	Nov. 11 - 21, 1984	4	2,881	
		1985	Financial cooperation	Mar. 2 - 12, 1986	4	2,488	
		1986					3,324
		Cumulative total					12,022

Name of project or proposal	Fiscal year	Trainees	Survey teams	Experts	Volunteers	Equipment supply	Other	Grand total
BFI forestry development and Lampung agricultural development	Until 1983 Cumulative total			2,366 2,366				2,866 2,866
Malino forestry technology assistance	Until 1983 Cumulative total			1,024 1,024				1,024 1,024
Lampung agricultural development	Until 1983 Cumulative total			31,143 31,143		661 661		31,143 31,143
Togian forestry development	Until 1983 Cumulative total			6,562 6,562				6,562 6,562
Technical assistance for Asahan aluminium development	Until 1983 Cumulative total			472 472				472 472
Togian agricultural development and cultivation project	Until 1983 Cumulative total			5,809 5,809				5,809 5,809
Control of plant diseases and insect pests	Until 1983 Cumulative total			9,913 9,913				9,913 9,913
Malino afforestation	Until 1983 Cumulative total			793 793				793 793
Malacca Strait navigation beacons	Until 1983 1984 1985 1986 Cumulative total			1,515 1,041 748 911 4,215				1,515 1,041 748 911 4,215
Forestry development project leader training	Until 1983 Cumulative total	3,389 3,389						3,389 3,389

Name of project or proposal	Fiscal year	Trainees	Survey teams	Experts	Volunteers	Equipment supply	Other	Grand total
On-site training of leaders and workers in cultivation control techniques, agricultural machine technology, and forestry development	Until 1983	3,021						3,021
	Cumulative total	3,021						3,021
Cultivation and harvesting of medicinal herbs	Until 1983	2,570						2,570
	Cumulative total	2,570						2,570
Design of sweet potato cultivation testing and a large-scale farm management system	Until 1983	993						993
	Cumulative total	993						993
Preparation of medicinal herbs and appraisal of quality	Until 1983	2,447						2,447
	Cumulative total	2,447						2,447
Medicinal herbs: cultivation testing	Until 1983	4,717						4,717
	Cumulative total	4,717						4,717
Manufacturing technology for laminated boards (Katingan forestry development)	Until 1983	21,535						21,535
	1984	14,759						14,759
	1985	18,482						18,482
	1986	19,882						19,882
	Cumulative total	74,668						74,668
Other	Until 1983		18,087	35,978		680		54,745
	Cumulative total		18,087	35,978		680		54,745
Total for development cooperation projects		(91,795)	(455,591)	(98,775)		(1,341)		(647,502)

(Nation) INDONESIA (International Disaster Relief Programme etc.)

(Unit: 1,000 yen)

Name of project or proposal	Fiscal year	Trainees	Survey teams	Experts	Volunteers	Equipment supply	Other	Grand total
Survey on actual conditions of ambulance system	1986		1,238					1,238
	Cumulative total		1,238					1,238
(Total for cooperation projects related to emergency relief, etc.)			(1,238)					(1,238)
(Total for all projects)		(8,818,821)	(28,515,684)	(24,173,405)	(4,626)	(14,950,603)	(1,408,351)	(77,871,490)

