

**PROJECT SUMMARY (M/P + F/S)**

ASE PHL/S 204B /86

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT		
<b>1. COUNTRY</b>	Philippines	<b>1. SITE OR AREA</b>	Two cities (Angeles and Dagpan) and two groups of towns (Cabyao, Santa Rosa and Biniyan; Bayombong and Sorano)			<b>1. PRESENT STATUS</b>	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
<b>2. NAME OF STUDY</b>	Municipal Water Supply Project	<b>2. PROJECT COSTS</b>	(US\$1=20.50P)				
<b>3. SECTOR</b>	Public Utilities/ Water Supply		Total Cost	Local Cost	Foreign Cost		
<b>4. REFERENCE NO.</b>			1) 43,678	18,573			<b>(Description)</b>  D/D has been completed for Dagpan, and Bayombong - Sorano.  Jan.1988 OECF loan agreement (1,272 million yen) 1990 Under construction  With regard to Angeles, D/D will be conducted with the 17th OECF finance (E/S loan).
<b>5. TYPE OF STUDY</b>	(M/P)+F/S		2) (US\$1,000)				
<b>6. COUNTERPART AGENCY</b>	Local Water Utilities Administration (LWUA)	<b>3. CONTENTS OF MAJOR PROJECT(S)</b>	3)				
<b>7. OBJECTIVES OF STUDY</b>							
<b>8. DATE OF S/W</b>	Oct.1985	The project consists of tube wells, transmission and distribution pipelines, and distribution ponds. The costs for each city/town group are as follows.					
<b>9. CONSULTANT(S)</b>	Nippon Jogesuido Sekkei Co.	1) Angeles 11,971 (US\$1,000)					
<b>10. STUDY TEAM</b>	No. of Members 10 Period Feb.1986 - Mar.1987 (14 months)  Total M/M 40.97 Japan 19.93 Field 22.04	2) Dagpan 11,483					
<b>11. ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>		3) Cabyao - Santa Rose - Biniyan 16,380					
<b>12. EXPENDITURE</b>	Total 163,499 (¥000) Contracted 149,175	4) Bayombong - Sorano 3,844					
		<b>4. FEASIBILITY AND ITS ASSUMPTIONS</b>					
			EIRR	FIRR			
		<b>Feasibility:</b>	13.7%	17.6%			
			13.1%	6.0%			
		<b>Conditions and Development Impacts:</b>	13.4%	12.3%			
		EIRR: End of construction 1995; project life of 20 years; own fund 5%, government subsidy 5%, government loan 10 - 12%, and annual reserve of 5 - 10%; basic charge equivalent to 5% of the income of low-income families; rate increase less than 60% of the old rate.					
		FIRR: Increase of land price, improvement of health and economic value of water are taken into account. The shadow pricing factor is 1.3 for foreign exchange, 0.5 for the premium of unskilled labor, and 1.0 for other components.					
		Note: EIRR and FIRR for Bayombong - Sorano are 13.5% and 4.3%.					
		<b>5. TECHNICAL TRANSFER</b>					
		- On-the-job training on development planning and tube well construction - JICA training program for counterparts					
						<b>2. MAJOR REASONS FOR PRESENT STATUS</b>	
						- Development of water supply systems has high priority among BHN-related projects. - Effectiveness of LWUA	
						<b>3. PRINCIPAL SOURCES OF INFORMATION</b>	
						①	

和名 地方都市上水道整備計画

{F/S, (M/P)+F/S, D/D}

PROJECT SUMMARY (M/P)

ASE PHL/S 108/87

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS		
1. COUNTRY	Philippines	1. SITE OR AREA	Cagayan River Basin in Luzon Island, 27,300 sq.km			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Cagayan River Basin Water Resources Development	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=20.5p)			(Description) Implementation of the Feasibility Study by the DPWH was expected immediately after M/P was finalized on August in 1987. However, F/S was delayed due to the revolution on February 1987. The government of the Philippines is requesting a feasibility study by JICA.	
3. SECTOR	Social Infrastructures/ Water Resource Development		Total Cost	Local Cost	Foreign Cost		
4. REFERENCE NO.		(US\$1,000)	1) 1,608,927				
5. TYPE OF STUDY	M/P		2)				
6. COUNTERPART AGENCY	Department of Public Works and Highway	3. MAJOR PROJECT(S) PROPOSED					
7. OBJECTIVES OF STUDY	Master Plan of Water Resources	(1) Sipfu Multi Dam Project, Dam Height	58 m				
8. DATE OF S/W	Aug. 1985	(2) Matuno Multi Dam Project, Dam Height	147 m				
9. CONSULTANT(S)	Nippon Koei Nikken Consultants	(3) Malig Dam Project, Dam Height	84 m				
10. STUDY TEAM	No. of Members 15 Period Oct.1985 - Aug.1987 (23 months)	(4) Tuquegarao River Training Project	22.1 km				
	Total M/M 140.97 Japan 72.29 Field 68.68	(5) Magapit Dredging Project					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		(6) Pinacanauan Irrigation Rehabilitation Project	1,220 ha				
12. EXPENDITURE	Total 446,671 (¥000) Contracted 344,969	4. CONDITIONS AND DEVELOPMENT IMPACTS	(1) This project generally has tremendous effects on irrigation, flood control and hydropower development and additionally, it has an advantage on social security problem because an opportunity of labour will be expected to increase in local area.			2. MAJOR REASONS FOR PRESENT STATUS	Security of this area becomes worse.
		5. TECHINICAL TRANSFER	(1) 4 special OJT (2) 2 OJT in Japan (3) To finalize report with counterpart			3. PRINCIPAL SOURCES OF INFORMATION	①

和名 カガヤン河流域水資源開発基本計画

{M/P, M/P+(F/S), Basic Study, Other}



**PROJECT SUMMARY (F/S)**

ASE PHL/S 319/87

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Sta. Rita - Aritao, Calamba - Calauag, Luzon			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Road Improvement Project on the Pan-Philippine Highway (Philippines-Japan Friendship Highway)	2. PROJECT COSTS	(US\$1=160Yen) Total Cost Local Cost Foreign Cost (US\$1,000) 1) 55,000 23,000 2) 3)			
3. SECTOR	Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	Rehabilitation of Road Function: 13 cities Rehabilitation of Pavement: 206 km  Implementation Period: Apr. 1989 - Dec. 1992			(Description)  1988 May: OECF loan agreement (14,003 million yen) 1991 Jan. D/D being implemented
4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	2. MAJOR REASONS FOR PRESENT STATUS  -High priority has been given to this project as the road is one of important trunk roads in Philippines. -The project was evaluated to be the most suitable one as Social Rehabilitation Fund by OECF	
5. TYPE OF STUDY	F/S	Feasibility: Yes	57.2%			
6. COUNTERPART AGENCY	Department of Public Works and Highways (DPWH)	Conditions and Development Impacts:				
7. OBJECTIVES OF STUDY	Road Rehabilitation	Conditions: (1) Future traffic demand is estimated for the years of 2000 and 2010. (2) For improvement of traffic function, widening of road width, construction of By-pass, etc were suggested. (3) Rehabilitation of pavement for each section was also suggested.  Development Impacts with improvement of road function in the cities are expected.				
8. DATE OF S/W	Nov. 1985	5. TECHNICAL TRANSFER				
9. CONSULTANT(S)	Dai-Nippon Consultants Katahira & Engineers	(1) Technical Transfer through Seminar. (2) OJT on highway planning and pavement			3. PRINCIPAL SOURCES OF INFORMATION  ①	
10. STUDY TEAM	No. of Members 7 Period Jun. 1986 - Sep. 1987 (16 months)  Total M/M 48.13 Japan 2.10 Field 46.03	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey and Geotechnical Investigation			
12. EXPENDITURE	Total 168,225 (¥000) Contracted 161,111					

和名 日比友好道路・道路改善計画

(F/S, (M/P)+F/S, D/D)

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT		
1. COUNTRY	Philippines	1. SITE OR AREA	Manila			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Manila South Port Rehabilitation Project	2. PROJECT COSTS	(US\$1=20.5P)				
3. SECTOR	Transportation/ Port		Total Cost	Local Cost	Foreign Cost	(Description)	
4. REFERENCE NO.		(US\$1,000)	35,366	10,315	25,051		
5. TYPE OF STUDY	F/S	1)					
6. COUNTERPART AGENCY	Philippines Ports Authority	2)					
7. OBJECTIVES OF STUDY	Review of Master Plan (year 2000) and establishing Short Term Development Plan for South Harbour.	3)					
8. DATE OF S/W	Dec. 1985	3. CONTENTS OF MAJOR PROJECT(S)	-Rehabilitation of Existing Facilities. -Expansion of Apron and Open Storage Area -Implementation of Floating Unloaders (two Nos)				
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Nikken Sekkei	Implementation Period:	1989 - 1992				
10. STUDY TEAM	No. of Members 11 Period Mar. 1986 - Jun. 1987 (16 months)  Total M/M 65.06 Japan 30.22 Field 34.84	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Traffic Survey, Soil Survey, Topographic Survey, Structure Inspection	Feasibility: Yes	18.46%	7.69%			
12. EXPENDITURE	Total 228,100 (¥000) Contracted 214,956	Conditions and Development Impacts: Target Year of Demand Estimate: Year 1995 and Year 2005  Development Impact: Improvement in managing and operation by rehabilitation of facilities.					
		5. TECHNICAL TRANSFER	(1) We held a seminar in Manila for Technical Transfer (2) We gave a lecture on methodology of F/S (3) Jointly works on survey				
			2. MAJOR REASONS FOR PRESENT STATUS				
			3. PRINCIPAL SOURCES OF INFORMATION				
			①				

和名 マニラ南港改修計画

(F/S, (M/P)+F/S, D/D)

PROJECT SUMMARY (M/P)

ASE PHL/A 103/88

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Western Samar Province in Samar Island (excluding small islands)			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Integrated Agricultural/Rural Development Project in Western Samar	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Agriculture/ General		(US\$1,000)	1) 422,500	2)	(Description) Model plan of ADPP was formulated for the top priority area (San Jorge/Gandara area) during Phase II Study. The priority was put on irrigation and drainage, farm road and rural water supply. B/D for Grant Aid was made during January - March 1990. The implementation was started in January 1991. The Phase II is under promotion on a grant basis in fiscal 1991.
4. REFERENCE NO.		3. MAJOR PROJECT(S) PROPOSED	Agricultural Development Promotion Project (ADPP) was proposed for 4 priority areas, i.e., San Jorge/Gandara, Jamonini, Calbiga and Basey. The components are as follows: (1) Agricultural development (2) Rural infrastructure development (3) Post-harvest and marketing facility development (4) Farmers Organization (5) ADPP Office			
5. TYPE OF STUDY	M/P		Estimated investment costs are as follows: First 5 years of the first decade 114,600 (US\$1,000) Second 5 years of the first decade 91,450 Second decade 216,450 (The cost above is the total for 20 years)			
6. COUNTERPART AGENCY	Samar Integrated Rural Development Office	4. CONDITIONS AND DEVELOPMENT IMPACTS	In Western Samar Province, the plans are for: 1) irrigation, 2) drainage, 3) agricultural development, 4) farm road, 5) rural electrification, 6) rural water supply, 7) social infrastructure, 8) farm organization  The objectives are: 1) increase in farmers' income, and 2) promotion of employment opportunity.  Short-term, Medium-term, and Long-term strategies were proposed.			
7. OBJECTIVES OF STUDY	M/P for the integrated agricultural development in order to vitalize economy in the Province of Samar	5. TECHINICAL TRANSFER	1) Acceptance of trainees 2) Direction of measuring equipment (flow meter, etc.) 3) Co-working during report preparation			2. MAJOR REASONS FOR PRESENT STATUS Samar Island is most poverty region in the Philippines. The World Bank studied on whole island. Australia and the World Bank studied on Northern Samar and Eastern Samar but not Western Samar. Therefore, integrated rural development in Western Samar is very important.
8. DATE OF S/W	Dec. 1986	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Discharge Observation			3. PRINCIPAL SOURCES OF INFORMATION ①
9. CONSULTANT(S)	Sanyu Consultants Inc. Pacific Consultants International Taiyo Consultants Co., Ltd.	12. EXPENDITURE	Total	320,574 (¥'000)		
10. STUDY TEAM	No. of Members 13 Period Mar. 1987 - Dec. 1988 (15 months)  Total M/M 95.86 Japan 40.17 Field 55.69		Contracted	268,403		

和名 西サマール農村総合開発計画

(M/P, M/P+(F/S), Basic Study, Other)

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																	
1. COUNTRY	Philippines	1. SITE OR AREA	73 provinces (F/S on four selected provinces: Cavite, Masbate, Bohol and Agusan del Norte)																		
2. NAME OF STUDY	Rural Road Network Development Project	2. PROJECT COSTS	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>45,000</td> <td>17,000</td> <td>28,000</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	45,000	17,000	28,000	2)				3)			
	Total Cost	Local Cost	Foreign Cost																		
1) (US\$1,000)	45,000	17,000	28,000																		
2)																					
3)																					
3. SECTOR	Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	<p>1) Evaluation and classification of the present status of roads in 73 provinces and selection of 4 provinces for a pilot F/S.</p> <p>2) Selection of roads in 4 provinces for feasibility analysis (2,000km).</p> <p>3) Feasibility analysis and identification of the development planning method</p> <p>4) Organization and investment plans for implementation</p>																		
4. REFERENCE NO.		Implementation Period:	1991 - 1995 (Phase I)																		
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	<p>1. PRESENT STATUS</p> <p><input type="checkbox"/> Completed or in Progress      <input checked="" type="checkbox"/> Promoting</p> <p><input type="checkbox"/> Completed      <input type="checkbox"/> Delayed or Suspended</p> <p><input type="checkbox"/> Implementing      <input type="checkbox"/> Discontinued or Cancelled</p> <p><input type="checkbox"/> Processing</p> <p>(Description)</p> <p>Based on the recommendations of the study, the Government of the Philippines has been taking steps to secure financing. The application to OECF in FY 1990 was not successful, but the Government intends to reapply in FY 1991.</p> <p>The Government of the Philippines has a wish to request a similar feasibility study on other provinces.</p>																
6. COUNTERPART AGENCY	Ministry of Public Works and Highways	Feasibility:																			
7. OBJECTIVES OF STUDY	Development of regional roads (secondary trunk road and lower road classes)	Conditions and Development Impacts:	<p>The study applied feasibility analysis to 4 selected provinces and thereby proposed the method to plan the development of regional roads. In order to proceed with the nation-wide regional road development, it is necessary to establish an appropriate administrative structure and secure finance.</p> <p>The regional road development (roads with EIRR of over 15 %) will extend the network of all-weather roads in the country and stimulate socio-economic growth and employment creation.</p>																		
8. DATE OF S/W	Jul. 1987	10. STUDY TEAM	2. MAJOR REASONS FOR PRESENT STATUS																		
9. CONSULTANT(S)	Katahira & Engineers International Nippon Engineering Consultants Co., Ltd.	No. of Members 10 Period Nov. 1987 - Feb. 1989 (16 months)	3. PRINCIPAL SOURCES OF INFORMATION																		
		Total M/M 55.9 Japan 13.4 Field 42.5	①																		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Road inventory Traffic survey	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY																			
12. EXPENDITURE	Total 191,294 (¥000) Contracted 178,598	5. TECHINICAL TRANSFER	OJT for the counterparts																		

**PROJECT SUMMARY (F/S)**

ASE PHL/A 313/88

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Project Area - 1,420 hectares in La Trinidad, Province of Benguet			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2. NAME OF STUDY	Highland Integrated Rural Development Project in La Trinidad, Province of Benguet	2. PROJECT COSTS	US\$1=24.2P in 1988 Total Cost      Local Cost      Foreign Cost 1)                      12,460              5,220              7,240 (US\$1,000)      2)                      3)			
3. SECTOR	Agriculture/ General	3. CONTENTS OF MAJOR PROJECT(S)	Intake Facilities      8 Pond                      11 (68,500 cu.m) Lateral Conduit      25 km Delivery Conduit      30 km Diversion Box              120 Deep Well                      3 Rural Road                      30 km Community Center      7			(Description)  1. Project formulation and preparation - Period of basic design study ; Dec.1988 - Apr.1989 - Consultant; Nippon Giken Inc. 2. Implementation of the project (Phase I) -Date and amount of E/N : Jun. 1989, 16.43 billion Yen -Period of detailed design: Jun.1989 - Oct.1989 -Period of construction work: Nov.1989 - Nov.1990 -Consultant: Nippon Giken Inc. -contractor: Tobishima Corporation (Phase II) -Date and amount of E/N : Jul. 1990, 11.42 billion Yen -Period of detailed design: Jul. 1990 - Oct.1990 -Period of construction work: Nov.1990 - Nov.1991 -Consultant: Nippon Giken Inc. -Contractor: Tobishima Corporation  Construction works were completed and facilities constructed were turned over to the Client, Provincial Government of Benguet in November 1991.
4. REFERENCE NO.		Implementation Period:	Dec.1988 - Mar.1992			
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
6. COUNTERPART AGENCY	Provincial Government of Benguet (PGB)	Feasibility:	Yes			
7. OBJECTIVES OF STUDY	Formulating the Highland Integrated Rural Development Plan in La Trinidad for promoting highland agriculture and improving the living standards for the inhabitants in rural areas.	Conditions and Development Impacts:	Conditions: Proposed component, which is required for the promotion of agricultural productivity and social environment in rural area, is selected to overcome major existing restrictions on the development in the study area Development Impact: 1) Increase of supply in quantity of vegetables and cut-flowers in Metro-Manila and the Central Regions 2) Increase of employment and training effect 3) Increase of farm household income and property value 4) Stable supply of potable and household water 5) Activation of rural area			
8. DATE OF S/W	Mar.1987	5. TECHINCAL TRANSFER	1. Acceptance of Trainee			
9. CONSULTANT(S)	Nippon Giken Inc. Nippon Koel Co., Ltd.					
10. STUDY TEAM	No. of Members      10 Period                  Jul.1987 - Nov.1988 (14 months)  Total M/M              57.49 Japan                  23.87 Field                      33.62					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Rural Road Surveying and Irrigation Canal Surveying. Drilling of Test Wells					
12. EXPENDITURE	Total                  196,644 (¥000) Contracted              170,000					
			2. MAJOR REASONS FOR PRESENT STATUS  1. Implementation of this development Project is considered vital and urgent in view of high potentiality. 2. This project has an important and regional role to supply the highland vegetables to Metro-Manila and the Central regions. 3. High priority was given to the implementation of this project for the reason that this is the first project carried out by the provincial government with technical cooperation by the Government of Japan.			
			3. PRINCIPAL SOURCES OF INFORMATION  ①			

和名 トリニダット高地農村総合開発計画

[F/S, (M/P)+F/S, D/D]

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT		
1. COUNTRY	Philippines	1. SITE OR AREA	National Pump Irrigation Systems (Excluding groundwater irrigation systems)			1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Improvement of Operation and Maintenance in Pumping Irrigation Systems	2. PROJECT COSTS	US\$1=21 Peso Total Cost Local Cost Foreign Cost (US\$1,000) 1) 16,715 5,516 11,199 2) 3)			(Description)	
3. SECTOR	Agriculture/ Irrigation, Drainage & Reclamation	3. CONTENTS OF MAJOR PROJECT(S)	The project consists of the rehabilitation and improvement of the following pumping irrigation systems: 1. Bonga #1 (1,204.2) (US\$000) 2. Bonga #2 (1,470.2) 3. Bonga #3 ( 684.5) 4. Alcala - Amulung (1,433.3) 5. Solana (3,648.9) 6. Libman - Cabusao (3,028.4) 7. Mini-hydropower stations (5,246.0)				
4. REFERENCE NO.		Implementation Period:	1990 - 1992				
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR Feasibility: Yes Conditions and Development Impacts: 1. Increase of crop Production 2. Supply of electric power at cheaper price 3. Increase of employment opportunity 4. Improvement of farm roads for better transportation of goods *EIRR ranges from 14.0% to 39.5%.				
6. COUNTERPART AGENCY	NIA (National Irrigation Administration)	10. STUDY TEAM				2. MAJOR REASONS FOR PRESENT STATUS	
7. OBJECTIVES OF STUDY	To formulate of operation and maintenance for government managed irrigation pumping system	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
8. DATE OF S/W	Feb. 1987	12. EXPENDITURE	5. TECHNICAL TRANSFER			3. PRINCIPAL SOURCES OF INFORMATION	
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Construction Project Consultants, Inc.	Total 199,448 (¥000) Contracted 197,131	Technology transfer to counterparts in the course of the study.			①	

**PROJECT SUMMARY (Basic Study)**

ASE PHL/S 502/88

Compiled March 1991  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS																
1. COUNTRY	Philippines	1. SITE OR AREA	Approx. 1,500 sq.km of Metro Manila Region			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued															
2. NAME OF STUDY	Establishment of Graphic Information Base Project of National Capital Region	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	Foreign Cost																
3. SECTOR	Social Infrastructures/ Survey & Mapping	3. MAJOR PROJECT(S) PROPOSED	<table border="0"> <tr> <td></td> <td align="right">1)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td align="right">(US\$1,000)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td align="right">2)</td> </tr> </table>				1)					(US\$1,000)								2)	(Description)  The final result of the four kinds of maps are now sold to the public in the Philippines. The maps are widely used for the formulation of various development plans and studies in Metro Manila.  The maps are also utilized for JICA Study and popular among users.
	1)																				
	(US\$1,000)																				
				2)																	
4. REFERENCE NO.		Preparation of :																			
5. TYPE OF STUDY	Basic Study	1. Contoured (Topographic) Mapping (scale 1:10,000)	1500sq.km																		
6. COUNTERPART AGENCY	National Mapping and Resource Information Authority (Manila)	2. Planimetric Mapping (scale 1:10,000)	1500sq.km																		
7. OBJECTIVES OF STUDY	Preparation of base maps for urban development planning	3. Land Use Mapping (scale 1:10,000)	823sq.km																		
8. DATE OF S/W	Mar. 1985	4. Land Condition Mapping (scale 1:10,000)	476sq.km																		
9. CONSULTANT(S)	International Engineering Consultants Association	4. CONDITIONS AND DEVELOPMENT IMPACTS	By the preparation of the urban base maps, the formulation of urban re-development plans, land use plans, flood control measures, etc. are greatly facilitated to contribute to the regional economic development.																		
10. STUDY TEAM	<table border="0"> <tr> <td>No. of Members</td> <td>62</td> </tr> <tr> <td>Period</td> <td>Jun. 1985 - Mar. 1989 (46 months)</td> </tr> <tr> <td>Total M/M</td> <td>200.67</td> </tr> <tr> <td>    Japan</td> <td>81.48</td> </tr> <tr> <td>    Field</td> <td>119.19</td> </tr> </table>	No. of Members	62	Period	Jun. 1985 - Mar. 1989 (46 months)	Total M/M	200.67	Japan	81.48	Field	119.19	5. TECHNICAL TRANSFER	Technical transfer has been made to the counterparts through the field work in the Philippines and office work in Japan.								
No. of Members	62																				
Period	Jun. 1985 - Mar. 1989 (46 months)																				
Total M/M	200.67																				
Japan	81.48																				
Field	119.19																				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	<table border="0"> <tr> <td>Total</td> <td>761,568 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>751,731</td> </tr> </table>			Total	761,568 (¥'000)	Contracted	751,731	2. MAJOR REASONS FOR PRESENT STATUS	The urban base maps of scale 1:10,000 are prepared for the first time in the Philippines.										
Total	761,568 (¥'000)																				
Contracted	751,731																				
					3. PRINCIPAL SOURCES OF INFORMATION	①															

和名 マニラ都市基本図作成

(M/P, M/P+(F/S), Basic Study, Other)

**PROJECT SUMMARY (Other)**

ASE PHL/A 602/88

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	An Area 28,000 sq.km in the Cagayan River Basin in Northern Luzon		1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Preparation of Forest Information in Wide Area and Forest Management Planning	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	
3. SECTOR	Forestry/ Forestry & Forest Conservation	(US\$1,000) 1) 2)	3. MAJOR PROJECT(S) PROPOSED		(Description) The Bureau of Forest Development had a plan to implement the project using loans from OECF and/or ADB in order to conduct the forest management for whole country using this method of formulating the forest management plan for wide area in the Cagayan River Basin. The Bureau of Forest Development has some activities according with this plan out of the study area.
4. REFERENCE NO.		1.The forest management plan for wide area was formulated on the above mentioned area.			
5. TYPE OF STUDY	Other	2.A 50,000 ha of Model area was established in the above mentioned area and the forest management plan for Model area was formulated.			
6. COUNTERPART AGENCY	Bureau of Forest Development Ministry of Natural Resources	4. CONDITIONS AND DEVELOPMENT IMPACTS			
7. OBJECTIVES OF STUDY	The objective of this study is preparation of Forest Management Plan to conserve the natural environment and stable the socio-economic condition in the study area.	It is necessary to examine the social demands, economic effects and financing when the forest management plans are implemented. It will bring good results for reduction of the forest devastation and natural environment conservation by setting up the basic forest management plan for the whole country using the above mentioned plans. The basic forest management is to manage the unplanned forest exploitation and forest utilization.			
8. DATE OF S/W	May 1985	5. TECHINCAL TRANSFER			
9. CONSULTANT(S)	Japan Forest Technical Association Pasco International Inc.	-To accept trainees, -To guide the way of collecting and arranging the forest information in wide area and to conduct these joint works, -To conduct the joint works for formulation of the forest management plans, -To conduct the joint field works.			
10. STUDY TEAM	No. of Members 14 Period Jul.1985 - Jun.1988 (36 months)  Total M/M 155.00 Japan 110.00 Field 45.00	3. PRINCIPAL SOURCES OF INFORMATION			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Aerial Photography	①			
12. EXPENDITURE	Total 401,069 (¥'000) Contracted 375,054	2. MAJOR REASONS FOR PRESENT STATUS			
		Introduction of loans has been shelved because of the political unrest			

和名 広域森林情報分析管理計画

(M/P, M/P+(F/S), Basic Study, Other)

**PROJECT SUMMARY (M/P)**

ASE PHL/A 105/89

Compiled March 1991  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	The whole of Philippines			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Small Water Impounding Management (SWIM) Project	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Agriculture/ Irrigation, Drainage & Reclamation	(US\$1,000)	1) 265,000			(Description)  Under detailed design and implementation of 39 SWIM Projects by 14th OECF Loan.
4. REFERENCE NO.		2)				
5. TYPE OF STUDY	M/P	3. MAJOR PROJECT(S) PROPOSED	-Selection of 230 candidate projects of small water impounding Dam projects  -Preparation of 10 year Action Program for 1991-2000  -A 118 projects among the 230 candidates will be implemented during the first five years of the 10-Year Action Program  -The rest of 112 projects will be implemented during the second five year (including 34 projects which should be re-studied)			
6. COUNTERPART AGENCY	Department of Public Works and Highways (DPWH)	4. CONDITIONS AND DEVELOPMENT IMPACTS	-IRR=17.5% (overall 230 projects)  -Increase of production (200,000 ton) by increase of irrigated paddy field (28,000 ha).  -Increase of income of beneficiaries (Peso 14,000/family)  -Watershed Management (reforestation: 45,000 ha)			
7. OBJECTIVES OF STUDY	- Formulation of the M/P for smooth implementation of the project - Preparation of criteria and guidelines for implementation of SWIM project	5. TECHINCAL TRANSFER	Technology transfer to counterparts in the course of the study.			
8. DATE OF S/W	Dec.9, 1987	12. EXPENDITURE	Total	255,674 (¥000)		
9. CONSULTANT(S)	Nippon Koei Co.,Ltd. Nippon Giken Inc.	Contracted		182,150		
10. STUDY TEAM	No. of Members 11 Period Aug. 1988 - Apr.1990 (20 months)  Total M/M 82.41 Japan 25.50 Field 56.91	3. PRINCIPAL SOURCES OF INFORMATION	①			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	none	2. MAJOR REASONS FOR PRESENT STATUS	None			

和名 農業用小規模ため池整備計画

(M/P, M/P+(F/S), Basic Study, Other)

PROJECT SUMMARY (M/P)

ASE PHL/A 104/89

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Nationwide			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Fish Transport System	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	US\$1=21Peso Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    67,817    20,673    47,145 2)			
3. SECTOR	Fisheries/ Fisheries	3. MAJOR PROJECT(S) PROPOSED	The Project components are: Off-shore facilities of fish transport vessel, training vessel, fish carrier vessels and payao. On-land facilities/building of office building, insulated fish box manufacturing plant, several processing plants, ice making plant, work shop, electrical sub-station, auction hall. On-land facilities of antenna tower, tank water treatment facilities. On-land equipment of mobiles, workshop equipment, information/communication equipment, cooking facilities and demonstration facilities etc., infrastructure of rehabilitation for existing MFP, access road, extension for city water taking, wiring electrical power primary line and reclamation.			(Description) This project is in the same program as the IPCS Network System which Master Plan Study was implemented by JICA from 1983 to 1985. Engineering Service (E/S) was finalized in 1989 by the Government of Philippines funded by OECF 13th loan and the request for OECF loan for implementation will be done in 1991. This project is scheduled in 1990 to request OECF E/S loan to Japanese Government but extended to 1992 due to the change of Undersecretary in charge of this project. In the request of OECF loan, the E/S of FTS was combined to the implementation of IPCS project. So there is a much possibility that the E/S consultancy work may be automatically carried out by PCI which is the consultant of IPCS project.
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS				
5. TYPE OF STUDY	M/P	5. TECHNICAL TRANSFER				
6. COUNTERPART AGENCY	Department of Agriculture	1) Acceptance of trainees				
7. OBJECTIVES OF STUDY	To formulate M/P on Fish Transport System in the Philippines to improve the seafood treatment	2) Joint work for creation of report				
8. DATE OF S/W	Feb. 1988	3) Fish Quality Testing System				
9. CONSULTANT(S)	System Science Consultants Inc.					
10. STUDY TEAM	No. of Members 11 Period Mar. 1988 - Aug. 1989 (17 months)  Total M/M 49.05 Japan 19.19 Field 29.86					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Nil					
12. EXPENDITURE	Total 149,277 (¥000) Contracted 140,635					
		2. MAJOR REASONS FOR PRESENT STATUS	1. The change of Undersecretary in D/A in charge of this project 2. IPCS Network system project in the same program as FTS project was also postponed to 1991 for application to Japanese Government of OECF loan implementation			
		3. PRINCIPAL SOURCES OF INFORMATION	①			

和名 水産物輸送システム総合計画

(M/P, M/P+(F/S), Basic Study, Other)

## PROJECT SUMMARY (M/P + F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS		
1. COUNTRY	Philippines	1. SITE OR AREA	Metro Manila and its Neighboring Area, about 981sq.km in total		1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued	
2. NAME OF STUDY	Flood Control and Drainage Project in Metro Manila	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	US\$1=21.3P=132Yen Total Cost Local Cost Foreign Cost			
3. SECTOR	Social Infrastructures/ River & Erosion Control	(US\$1,000) 1) 634,883 2)	3. MAJOR PROJECT(S) PROPOSED		(Description) Three priority projects such as the drainage improvement in East and West of Mangahan, the drainage improvement in Malabon-Tullahan and the river improvement in Pasig River were selected in the Master Plan study. Among the above, drainage improvement in East and West of Mangahan is scheduled to be Implemented under the 16th OECF loan. The detailed design work is being implemented.	
4. REFERENCE NO.		Master plan consists of the flood control for the four main rivers and the drainage improvement for the eight inland areas in Metro Manila and its neighboring area.				
5. TYPE OF STUDY	M/P+(F/S)	Flood control in the Pasig-Marikina River, passing through the core of Metro Manila, consists of the construction of Marikina Dam and Marikina Control Gate Structure (MCGS) as well as the river channel improvement.				
6. COUNTERPART AGENCY	Department of Public Works and Highway	Over three Rivers such as Bili-Baho-Mahaba, Malabon-Tullahan and South Paranague-Las-Pinas consists of river channel improvement.				
7. OBJECTIVES OF STUDY	To prepare the master plan of flood control and drainage improvement in Metro Manila and to conduct the feasibility study on the selected priority projects	As for the drainage system by pumping station and drainage channel was fundamentally applied.				
8. DATE OF S/W	Jul. 1987	In Malabon-Nabotas and East and West of Mangahan areas, the coastal dike and lake dike is provided along the shoreline.				
9. CONSULTANT(S)	Nippon Koei Co., Ltd. CTI Engineering Co., Ltd.	4. CONDITIONS AND DEVELOPMENT IMPACTS				
10. STUDY TEAM	No. of Members 14 Period Dec. 1987 - Mar. 1990 (27 months)  Total M/M 123.94 Japan 71.84 Field 52.10	Master Plan was prepared setting the target completion year in 2020 considering the financial restriction for realization. The safety degree of the plan was set as follows based on the economic evaluation and social significance of the area. Flood Control: Drainage Improvement: Pasig-Marikina River: 100 year Marabon-Navotas : 5 year Other Rivers : 30 year East of Mangahan: 5 year West of Mangahan: 5 year Other areas : 3 year				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Longitudinal and Cross Sectional Survey of Rivers and Main Channels Installation of Rain Gauge and Water Level Gauge Stations	In the above, drainage improvement in Manila and its neighboring area is not included since the construction of three pumping stations and drainage channel improvement is on-going under the 14th OECF loan together with the retrieval of flood-prone area under the JICA grant aid, and the safety degree in this area reaches almost 10 year after the completion of the above foreign aid projects.				
12. EXPENDITURE	Total 366,706 (¥000) Contracted 344,031	5. TECHNICAL TRANSFER Transfer of knowledge 1. On-the-job-training for counterparts by each expert. 2. Guidance and training on hydrological observation, operation and maintenance methods of equipments and data filing system.				
		2. MAJOR REASONS FOR PRESENT STATUS		Serious damage was occurred in 1986 and 1988 in the East and West of Mangahan by the intrusion of the lake water together with the inundation of inland water because of the high lake stage and poor drainage system.		
		3. PRINCIPAL SOURCES OF INFORMATION		①		

和名 マニラ洪水対策計画

{M/P, M/P+(F/S), Basic Study, Other}

## PROJECT SUMMARY (M/P + F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT																	
1. COUNTRY	Philippines	1. SITE OR AREA			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled																
2. NAME OF STUDY	Flood Control and Drainage Project in Metro Manila	1. East and West of Mangahan 2. Marabon-Navotas 3. Pasig-Marikina River																				
3. SECTOR	Social Infrastructures/ River & Erosion Control	2. PROJECT COSTS			(Description)																	
4. REFERENCE NO.		US\$1=21.3P=132Yen																				
5. TYPE OF STUDY	(M/P)+F/S	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>132,000</td> <td>35,400</td> <td>96,600</td> </tr> <tr> <td>2)</td> <td>52,400</td> <td>16,600</td> <td>35,800</td> </tr> <tr> <td>3)</td> <td>65,800</td> <td>22,300</td> <td>43,500</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	132,000	35,400	96,600	2)	52,400	16,600	35,800	3)	65,800	22,300	43,500	Three priority projects such as the drainage improvement in East and West of Mangahan, the drainage improvement in Malabon-Tullahan and the river improvement in Pasig River were selected in the Master Plan study. Among the above, drainage improvement in East and West of Mangahan is scheduled to be implemented under the 16th OECF loan. The detailed design work is being implemented. Oct. 1989 OECF loan agreement on the detailed design works of the North Laguna Lake Shore Urgent Flood Control and Drainage Project (610 million yen) Apr. 1991 Award of contract Nov. 1992 Completion of detailed design	
	Total Cost	Local Cost	Foreign Cost																			
1) (US\$1,000)	132,000	35,400	96,600																			
2)	52,400	16,600	35,800																			
3)	65,800	22,300	43,500																			
6. COUNTERPART AGENCY	Department of Public Works and Highway	3. CONTENTS OF MAJOR PROJECT(S)																				
7. OBJECTIVES OF STUDY	To prepare the master plan of flood control and drainage improvement in Metro Manila and to conduct the feasibility study on the selected priority projects	1. Drainage Improvement in East and West of Mangahan. -Lake Dike ; 10,700m in total length -Pumping station ; 9 places -New construction of drainage channel ; 19,750m in total length 2. Drainage Improvement in Malabon-Navotas -Coastal Dike ; 6,800m in total length -Pumping station ; 6 places -New construction of drainage channel (Open channel) ; 2,700m in total length 3. Pasig-Marikina River Improvement -River Improvement ; 23,920m in total length -Marikina Control Gate Structure (MCGS) ; 1 place Implementation Period: 1991 - 2000			2. MAJOR REASONS FOR PRESENT STATUS Serious damage was occurred in 1986 and 1988 in the East and West of Mangahan by the intrusion of the lake water together with the inundation of inland water because of the high lake stage and poor drainage system.																	
8. DATE OF S/W	Jul. 1987	4. FEASIBILITY AND ITS ASSUMPTIONS					3. PRINCIPAL SOURCES OF INFORMATION															
9. CONSULTANT(S)	Nippon Koei Co., Ltd. CTI Engineering Co., Ltd.	<table border="1"> <thead> <tr> <th></th> <th>EIRR</th> <th>FIRR</th> </tr> </thead> <tbody> <tr> <td>Feasibility: Yes</td> <td>16.8%</td> <td>15.9%</td> </tr> <tr> <td></td> <td>16.1%</td> <td></td> </tr> </tbody> </table> Conditions and Development Impacts: Feasibility Study on the three priority projects selected in the Master Plan Study was conducted setting the target completion year in 2000, the safety degree was set as follows. -Drainage Improvement ; 5 year -River Improvement ; 30 year				EIRR			FIRR	Feasibility: Yes	16.8%	15.9%		16.1%		①						
	EIRR	FIRR																				
Feasibility: Yes	16.8%	15.9%																				
	16.1%																					
10. STUDY TEAM	No. of Members 14 Period Dec. 1987 - Mar. 1990 (27 months) Total M/M 123.94 Japan 71.84 Field 52.10	5. TECHNICAL TRANSFER																				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Longitudinal and Cross Sectional Survey of Rivers and Main Channels Installation of Rain Gauge and Water Level Gauge Stations	1. Guidance and training on hydrological observation, operation and maintenance methods of equipment and Data filing system.																				
12. EXPENDITURE	<table border="1"> <tbody> <tr> <td>Total</td> <td>366,706 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>344,031</td> </tr> </tbody> </table>	Total	366,706 (¥000)	Contracted	344,031																	
Total	366,706 (¥000)																					
Contracted	344,031																					

和名 マニラ洪水対策計画

(F/S, (M/P)+F/S, D/D)

PROJECT SUMMARY (M/P + F/S)

ASE PHL/S 205A /89

Compiled March 1991  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	13 towns in Panay Island (Malay, Iba Jay, Bonga, Kalibo, Iyisan, Pontevedra, Pilar, Sara, Lambunao, Leon, Miagao, Jordan, New Washington)			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Groundwater Development in Panay Island	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Social Infrastructures/ Water Resource Development		(US\$1,000) 1) 5,020			(Description) The projects are conducted in parts of 13 towns under the rural environmental sanitation project, the Japanese grant aid.
4. REFERENCE NO.		3. MAJOR PROJECT(S) PROPOSED				
5. TYPE OF STUDY	M/P+(F/S)					
6. COUNTERPART AGENCY	Local Water Utilities Administration					
7. OBJECTIVES OF STUDY	Assessment of Dependable Yield of Groundwater for Water Supply					
8. DATE OF S/W	Dec. 1987	4. CONDITIONS AND DEVELOPMENT IMPACTS				
9. CONSULTANT(S)	Nippon Jogesuido Sekkei Co., Ltd.					
10. STUDY TEAM	No. of Members 6 Period Mar.1988 - Nov.1989 (20 months)  Total M/M 47.51 Japan 17.05 Field 30.46					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY						
12. EXPENDITURE	Total 269,387 (¥000) Contracted 142,350	5. TECHINCAL TRANSFER				
			Groundwater resource survey with data analysis and water well construction management were provided including OJT.			2. MAJOR REASONS FOR PRESENT STATUS Not only local municipalities, but also LWUA has insufficient financial capability requires appropriate budgetary arrangement by LWUA
						3. PRINCIPAL SOURCES OF INFORMATION ①

和名 パナイ島地下水開発計画

{M/P, M/P+(F/S), Basic Study, Other}

## PROJECT SUMMARY (M/P + F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA				1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Groundwater Development in Panay Island	2. PROJECT COSTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Social Infrastructures/ Water Resource Development	(US\$1,000) 1) 2) 3)				(Description)  The projects are conducted in parts of 13 towns under the rural environmental sanitation project, the Japanese grant aid.
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	Water source development (deep well, infiltrated river water, spring and river water) and rehabilitation/improvement/expansion of water supply facilities (intake, distribution and transmission facilities and distribution reservoir) in 13 towns of Panay Island			
5. TYPE OF STUDY	(M/P)+F/S	Implementation Period:				
6. COUNTERPART AGENCY	Local Water Utilities Administration	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
7. OBJECTIVES OF STUDY	Assessment of Dependable Yield of Groundwater for Water Supply	Feasibility:				
8. DATE OF S/W	Dec. 1987	Conditions and Development Impacts:	The study contained assessment of dependable groundwater yield and general framework of major water supply facilities including rough cost estimates. In this regard, F/S in detail will be required prior to realization of the proposed project.			
9. CONSULTANT(S)	Nippon Jogesuido Sekkei Co., Ltd.	5. TECHINCAL TRANSFER				
10. STUDY TEAM	No. of Members 6 Period Mar.1988 - Nov.1989 (20 months)  Total M/M 47.51 Japan 17.05 Field 30.46	2. MAJOR REASONS FOR PRESENT STATUS	Formation of Water District is urgently required based on the Philippine Low and F/S shall subsequently be conducted for project realization, while financial arrangement by LWUA is deemed bottle neck for project implementation			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		3. PRINCIPAL SOURCES OF INFORMATION	①			
12. EXPENDITURE	Total 269,387 (¥000) Contracted 142,350					

和名 パナイ島地下水開発計画

(F/S, (M/P)+F/S, D/D)

## PROJECT SUMMARY (M/P + F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Entire Marinduque Main Island, Marinduque Province			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Integrated Agricultural Development Project in Marinduque	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	US\$1=21.8Peso Total Cost    Local Cost    Foreign Cost			
3. SECTOR	Agriculture/ General	(US\$1,000)	1) 174,300			(Description)  This master plan study has been carried out to take up the project as a model of remote island development in the Philippines.  The master plan was approved by the Provincial Government of Marinduque and Accelerated Development of Agricultural Project was decided to be taken up for the Grant-aid from Japan for FY 1991.  The B/D mission was sent to the site for implementation of Grand-aid from Japan in FY1991.
4. REFERENCE NO.		3. MAJOR PROJECT(S) PROPOSED				
5. TYPE OF STUDY	M/P+(F/S)	1. Agricultural Development Beneficial Area 80,500ha -Farm Technology Development -Farm Management Development -Crop Production Scheme -Animal Husbandry Development Plan -Agricultural Support Scheme -Marinduque Agricultural Development Promotion Farm (MADPP) 2. Agricultural Infrastructure Improvement -Irrigation Plan 3,810ha -Drainage and Flood Protection 3,490ha -Rural Roads 330km -Village Water Supply 2 places -Rural Infrastructure Improvement -Rural Water Supply 7 places -Mini-hydropower Development 4.40kW -Rural Electrification -Traffic System 3. Education and Welfare -Communication System 4. Fishery Development -Improvement of Brackish Water Fish Culture Demonstration Farm -Development of Fresh Water Fish culture -Culture Programs for Coconut Crab 5. Accelerated Development of Agricultural Project -Agricultural Development -Agricultural Infrastructural Development -Rural Infrastructural Development -Aquaculture Development				
6. COUNTERPART AGENCY	Marinduque Provincial Government	4. CONDITIONS AND DEVELOPMENT IMPACTS				
7. OBJECTIVES OF STUDY	Establishment of Master Plan on Agricultural Development in Marinduque Island	Development Benefit 1) Increase of Agricultural Production 2) Reduce of Flood Damages 3) Improvement of Road System 4) Improvement of Rural Water Supply System 5) Improvement of Rural Electrification				
8. DATE OF S/W	Jul. 1988	Farm income of Typical Farmhousehold    Present    Proposed Employment Opportunity    P.9,255    P.21,702 44,000				
9. CONSULTANT(S)	Sanyu Consultants Inc. Chuo Kaihatsu Corp.	5. TECHNICAL TRANSFER				
10. STUDY TEAM	No. of Members 10 Period Nov.1988 - Nov.1989 (13 months)  Total M/M 49.00 Japan 18.13 Field 30.87	Training in Japan (One Official Marinduque Province)				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE				
		Total 202,380 (¥000) Contracted 151,037				
						3. PRINCIPAL SOURCES OF INFORMATION  ①

和名 マリンデュケ農業総合開発計画

(M/P, M/P+(F/S), Basic Study, Other)

## PROJECT SUMMARY (M/P + F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Santa Cruz Area in Marinduque Island		1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Integrated Agricultural Development Project in Marinduque	2. PROJECT COSTS	Total Cost	Local Cost	
3. SECTOR	Agriculture/ General		1) 17,248	Foreign Cost 17,248	
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	2) (US\$1,000)		2. MAJOR REASONS FOR PRESENT STATUS  As request of the Philippine Government B/D Survey was implemented.
5. TYPE OF STUDY	(M/P)+F/S	1. Agricultural Development -Strengthening of Marinduque Agricultural Development and Promotion Fara (MAROPF) -DA Municipal Nurseries -Demonstration Farms of paddy and upland crops -Post harvest for rice and corn 2. Agricultural Infrastructure Improvement -Irrigation Development 670ha -Rural Road Development 10km -Village water supply 1 place 3. Rural Infrastructure Improvement -Rural Electrification Development -Traffic System Development -Education Development -Improvement of educational facilities 4. Fishery Development -Brackish Water Fish Culture Demonstration Fara	3)		
6. COUNTERPART AGENCY	Marinduque Provincial Government	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 17%		3. PRINCIPAL SOURCES OF INFORMATION  ①
7. OBJECTIVES OF STUDY	Pre-F/S study within the priority project areas	Feasibility:	Implementation Period: 1991 - 1992		
8. DATE OF S/W	Jul. 1988	Conditions and Development Impacts:			
9. CONSULTANT(S)	Sanyu Consultants Inc. Chuo Kaihatsu Corp.	Agriculture: Irrigation 50.3 million peso Non-irrigation 15.8 million peso Livestock 1.5 million peso			
10. STUDY TEAM	No. of Members 10 Period Nov. 1988 - Nov. 1989 (13 months)  Total M/M 49.00 Japan 18.13 Field 30.87	Farm Road: Rehabilitation 1.1 million peso New Construction 3.0 million peso			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Potable Water Supply 3.3 million peso			
12. EXPENDITURE	Total 202,380 (¥000) Contracted 151,037	Aquaculture and Processing 8.6 million peso			
		5. TECHNICAL TRANSFER	Training in Japan (One Official of Marinduque Province)		

和名 マリンデュケ農業総合開発計画

{F/S, (M/P)+F/S, D/D}

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT																									
1. COUNTRY	Philippines	1. SITE OR AREA	Lozon Samar and Leyte islands (Pan-Philippine HWY, Manila North Road)			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input checked="" type="checkbox"/> Processing																							
2. NAME OF STUDY	Rehabilitation and Maintenance of Bridges along Arterial Roads	2. PROJECT COSTS	<table border="1"> <tr> <td></td> <td>Total Cost</td> <td>Local Cost</td> <td colspan="2">Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td>43,101</td> <td>13,982</td> <td colspan="2">29,119</td> </tr> <tr> <td>1)</td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td colspan="2"></td> </tr> </table>					Total Cost	Local Cost	Foreign Cost		(US\$1,000)	43,101	13,982	29,119		1)					2)					3)			
	Total Cost	Local Cost	Foreign Cost																											
(US\$1,000)	43,101	13,982	29,119																											
1)																														
2)																														
3)																														
3. SECTOR	Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	Bridge Rehabilitation and Maintenance along Arterial Roads 1. Reconstruction 12 2. Replacement of Superstructure 15 3. Repair 25 total 52 Brs.			(Description)	1. Procedures Undertaken -Completion of Feasibility Study June, 1989 -OECF Appraisal Mission (16th) June, 1989 -OECF Loan Agreement (16th) Dec., 1989 -Short List for Consultant Selection March, 1990																							
4. REFERENCE NO.		Implementation Period:	Dec. 1990 - Dec. 1995				2. Status 41 bridges out of 52 bridges selected during Feasibility Study were separately identified to avoid overlapping with the other road rehabilitation project, which included the rest of the proposed bridges.																							
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		<table border="1"> <tr> <td>Rehabilitation Construction</td> <td>Under 16th</td> <td>Under 17th</td> </tr> <tr> <td>Reconstruction</td> <td>7</td> <td>4</td> </tr> <tr> <td>Replacement</td> <td>13</td> <td>0</td> </tr> <tr> <td>Repair</td> <td>17</td> <td>0</td> </tr> <tr> <td></td> <td>37 Brs.</td> <td>4 Brs.</td> </tr> </table>		Rehabilitation Construction	Under 16th	Under 17th	Reconstruction	7	4	Replacement	13	0	Repair	17	0		37 Brs.	4 Brs.								
Rehabilitation Construction	Under 16th	Under 17th																												
Reconstruction	7	4																												
Replacement	13	0																												
Repair	17	0																												
	37 Brs.	4 Brs.																												
6. COUNTERPART AGENCY	Department of Public Works and Highways (DPWH)	Feasibility: Yes	55.69%		3. Conceivable Schedule Bidding for civil works of the 16th loan: Mar. 1992																									
7. OBJECTIVES OF STUDY	Bridge Rehabilitation program, Bridge Data Base, Bridge Inspection and Maintenance	Conditions and Development Impacts:	Conditions -Traffic forecast is based on review of the survey results carried out by DPWH in 1986. -Design criteria such as design line loads and structural specification are in accordance with NSCP. Development Impacts -Prevent the existing bridge from river flood damage -Improve junctioning and durability of bridge, then prevent bridge collapse -Maintain traffic network -Establish systematic organization			2. MAJOR REASONS FOR PRESENT STATUS Implementation of the Project is under process since the Project has high priority in order to prevent the existing bridges from damages by typhoon and increased traffic volume.																								
8. DATE OF S/W	Apr. 1987	5. TECHNICAL TRANSFER	1. Trainee, Mr. Matanguihan Edwin Cuernas, Bureau of Design, DPWH, Participated in the training course of bridge engineering in Japan. (1988.8.17 - 1988.11.4) 2. Lecture concerning bridge data base and its operation was carried out during Feasibility Study.			3. PRINCIPAL SOURCES OF INFORMATION ①																								
9. CONSULTANT(S)	Nippon Koei Co., Ltd. ALMEC Corporation	10. STUDY TEAM	No. of Members 9 Period Nov. 1987 - Jun. 1989 (19.5) Total M/M 68.08 Japan 20.62 Field 47.46																											
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	1. Topographic Survey, 1988 2. Geotechnical Survey, 1988 3. Scaffolding, 1988	12. EXPENDITURE	Total 214,117 (¥'000) Contracted 208,344																											

和名 幹線道路主要橋梁改修計画

{F/S, (M/P)+F/S, D/D}

PROJECT SUMMARY (M/P + F/S)

ASE PHL/A 106/90

Compiled March 1992  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Southern Tarlac Province			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Improvement of Communal Irrigation Systems through Physical and Institutional Development and Rural Development in Southern Tarlac Province	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Agriculture/ General	(US\$1,000)	1) 32,000	12,600	19,400	(Description) In June 1990, when M/P and F/S were finished and implementation of priority projects was being prepared, sudden eruption of Pinatubo Volcano covered the rivers which were major sources of water and neighboring area with ashes with the depth of 10 - 20cm.
4. REFERENCE NO.		2)				
5. TYPE OF STUDY	M/P+(F/S)	3. MAJOR PROJECT(S) PROPOSED				
6. COUNTERPART AGENCY	National Irrigation Administration	1) Agricultural Infrastructure Improvement				
7. OBJECTIVES OF STUDY	Master Plan Study on Improvement of Communal Irrigation Systems	a) Irrigation Facilities Improvement Canals 37km, Diversion Dam Improvement 10 unit Groundwater Collecting Conduit 4 unit, Shallow Wells 271 unit				
8. DATE OF S/W	Feb. 1989	b) Drainage Development 4km				
9. CONSULTANT(S)	Sanyu Consultants Inc. Nippon Gigen Inc.	2) Farm Road Improvement Barangay Road 53km, Farm-to Market Road 58km				
10. STUDY TEAM	No. of Members 10 Period Aug. 1989 - Aug. 1990 (13)	3) Agricultural Development Farming Technology Demonstration Farm : 11 farm Seed Multiplication Station : 1 station				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	* Inventory : 397 (¥1,000) * Field survey : 2,239 (¥1,000) * Construction of Water Gage Station : 1,445 (¥1,000)	4) Institutional Development Support Assistance for Strengthening IAs Support Assistance for MFIA's Support Assistance for FIA's Support Assistance for CISS				
12. EXPENDITURE	Total 156,075 (¥'000) Contracted 142,164	4. CONDITIONS AND DEVELOPMENT IMPACTS				
		- Each river in the Study have no watershed management and erosion control project. - Annual rainfall in the Study Area is 1,900mm and the precipitation is mostly concentrated in a half year of the wet season. - Inundation in the flat Area, particularly in the Easter-most area along Chico river. - By introducing water collecting conduit and pumps for shallow well, the crop indep of 172% can be realized for 9,800ha farm land. - Through the provision of post-harvest facilities for handling paddy, the prevailing loss ratio of 16.5% could be reduced to 10.5% only. - Transportation cost saving by improvement of farm road network. - IRR is computed at 18%.				
		5. TECHNICAL TRANSFER				
		Through the field survey, transfer was achieved especially on the survey investigation and planning method for project formulation.				
		2. MAJOR REASONS FOR PRESENT STATUS	Assistance for the restoration of disaster-suffered area is being promoted by JICA.			
		3. PRINCIPAL SOURCES OF INFORMATION	①			

和名 タルラック州南部地域小規模灌漑組織強化計画

{M/P, M/P+(F/S), Basic Study, Other}

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																	
1. COUNTRY	Philippines	1. SITE OR AREA	73 provinces in Philippines (F/S was conducted as pilot study in 4 provinces)																		
2. NAME OF STUDY	Rural Road Network Development Project	2. PROJECT COSTS	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>147,295</td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td>110,902</td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	147,295			2)	110,902			3)			
	Total Cost	Local Cost	Foreign Cost																		
1) (US\$1,000)	147,295																				
2)	110,902																				
3)																					
3. SECTOR	Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	<p>Road Improvement Project:</p> <p>Major Roads : about 714km Minor Roads : about 1131km Total : about 1845km</p> <p>(A sector loan system was recommended), or</p> <p>(1) Evaluation and classification of the present road network in 73 provinces and the selection of four provinces for pilot study</p> <p>(2) Plan for basic road network in the pilot province and the selection of the road for F/S (2,000km in total)</p> <p>(3) Implementation of F/S; the establishment and the introduction of method of rural road development planning based on the result</p> <p>(4) Organization for the implementation of the rural road development project; planning for the investment</p> <p>Implementation Period: 1991 - 1995</p>																		
4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS	BIRR	FIRR	<p>1. PRESENT STATUS</p> <p><input type="checkbox"/> Completed or in Progress      <input checked="" type="checkbox"/> Promoting</p> <p><input type="checkbox"/> Completed      <input type="checkbox"/> Delayed or Suspended</p> <p><input type="checkbox"/> Implementing      <input type="checkbox"/> Discontinued or Cancelled</p> <p><input type="checkbox"/> Processing</p> <p>(Description)</p> <p>In this study the project operation plan including administration organization and financing plan for project implementation was suggested. The Government of the Philippines is on the preparation to implement the project including the way of financing. According to the plan, it was supposed to be applied for OECF loan in the FY1990, but it was postponed in the FY1991 because of financing problem. Concerning about the other provinces survey for project finding was implemented in 1991 by OECF. The project plan for 207 provinces are expected to be implemented financed by the 18th OECF loan.</p>																
5. TYPE OF STUDY	F/S	Feasibility:	15%																		
6. COUNTERPART AGENCY	Department of Public Works and Highways (DPWH)	Conditions and Development Impacts:	<p>Alleviation of poverty, generation of employment, and sustainable economic growth in rural area of Philippines. Four provinces among 73 provinces are surveyed and the method of the road development planning was suggested. The surveys for the other provinces should be implemented in the near future. The administrative organization and budget for the project which will cover the long term rural road development all over the Philippines should be prepared.</p> <p>The development impacts:</p> <p>The all-weather road will be constructed in the rural area. This would contribute to the economic development in the rural areas and the increase of employment directly, which are the targets of development plan.</p>																		
7. OBJECTIVES OF STUDY	Conduct a F/S on the development of a rural road network	5. TECHNICAL TRANSFER	<p>1. Accepting of counterpart trainees</p> <p>2. Utilization of local consultants</p>																		
8. DATE OF S/W	Apr. 1989	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>Socioeconomic survey</p> <p>Traffic counts survey</p> <p>Road inventory survey</p> <p>Experimental pavement construction</p>																		
9. CONSULTANT(S)	Katahira & Engineers Inc. Nippon Engineering Consultants Co., Ltd.	12. EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> </tr> </thead> <tbody> <tr> <td></td> <td>277,593 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>289,000</td> </tr> </tbody> </table>				Total		277,593 (¥000)	Contracted	289,000										
	Total																				
	277,593 (¥000)																				
Contracted	289,000																				
10. STUDY TEAM	<p>No. of Members 10</p> <p>Period Oct. 1989 - Oct. 1990 (13 months)</p> <p>Total M/M 60.26</p> <p>Japan 58.66</p> <p>Field 1.60</p>	2. MAJOR REASONS FOR PRESENT STATUS																			
		3. PRINCIPAL SOURCES OF INFORMATION	①																		

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Philippines			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Improvement of Seed Production and Distribution, and Establishment of Appropriate Seed Storage System	2. PROJECT COSTS	US\$1=27.5peso Total Cost    Local Cost    Foreign Cost 1)                    12,479            3,049            9,430 (US\$1,000) 2) 3)			
3. SECTOR	Agriculture/ General	3. CONTENTS OF MAJOR PROJECT(S)	Seed production and distribution plan for the selected model areas of Region II (Peanut Seed), Region IV (Rice Seed), and Region XI (Corn Seed).			(Description)  Under the promotion by construction project as a grant project.
4. REFERENCE NO.		Implementation Period:				
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
6. COUNTERPART AGENCY	Department of Agriculture	Feasibility:	24.9%		2. MAJOR REASONS FOR PRESENT STATUS  None	
7. OBJECTIVES OF STUDY	Planning for improvement of seed production and distribution and establishment of appropriate seed storage system for rice, corn and other crop.	Conditions and Development Impacts:	<ul style="list-style-type: none"> <li>-Proposed model improvement plan is technically and economically feasible.</li> <li>-Surplus seed could be supplied to other regions.</li> <li>-Emergency seed supply from buffer stock.</li> <li>-Development of related industries.</li> </ul>			
8. DATE OF S/W	Feb. 1989	5. TECHINCAL TRANSFER	2-day seminar with 45 participants			3. PRINCIPAL SOURCES OF INFORMATION  ①
9. CONSULTANT(S)	Nippon Koei Co., Ltd. System Science Consultants Inc.	10. STUDY TEAM	No. of Members 8 Period Nov.1989 - Dec.1990 (11 months)  Total M/M 46.81 Japan 18.00 Field 28.81			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 140,815 (¥000) Contracted 141,332			

和名 優良種子流通配布計画

(F/S, (M/P)+F/S, D/D)

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	5,000 ha. of Jala-Jala municipality, Rizer Province, located in 75km southeast of Manila			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Integrated Jala-Jala Rural Development Project	2. PROJECT COSTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Agriculture/ General	(US\$1,000)	1) 27,400	2) 11,000	3) 6,400	(Description)  From Oct.1991 to Apr.1992, the basic design study for Japan Grant Aid project is scheduled to be carried out by Nippon Koei Co., Ltd.  E/N = 39,323,000 Yen
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	1. Irrigation and drainage improvement 2. Road network improvement 3. Rural water supply 4. Power supply system 5. Fish port 6. Rural development center including rice mill center			
5. TYPE OF STUDY	F/S	Implementation Period:	Jan.1991 - Oct.1994			
6. COUNTERPART AGENCY	Department of Agrarian Reform	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
7. OBJECTIVES OF STUDY	To formulate an integrated rural development project	Feasibility:	14.4%			
8. DATE OF S/W	Apr.17, 1989	Conditions and Development Impacts:	Primary goal of the Project: 1. Early development of self-reliant farmers. 2. increased regional gross domestic products (RGDP) by improving the socio-economic structure and basis of production. 3. Attainment of self-sufficiency in staple food production with the municipal area.			
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Chuo Kaihatsu Corporation	5. TECHINICAL TRANSFER	Technology transfer counterparts in the course of the study.			
10. STUDY TEAM	No. of Members 9 Period Sep.1989 - Sep.1990 (13 months)  Total M/M 54.00 Japan 21.00 Field 33.00	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	-farm economy survey -Topographic survey -Geo-hydrological investigation			
12. EXPENDITURE	Total 188,616 (¥'000) Contracted 145,459	12. EXPENDITURE				
			2. MAJOR REASONS FOR PRESENT STATUS			
			3. PRINCIPAL SOURCES OF INFORMATION			
			①			

和名 ハラハラ農業開発計画

(F/S, (M/P)+F/S, D/D)

## PROJECT SUMMARY (M/P)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Singapore	1. SITE OR AREA	Strait of Singapore			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Dredging Project of the Straits of Singapore	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1-S\$2.16) Total Cost    Local Cost    Foreign Cost			
3. SECTOR	Transportation/ Port	(US\$1,000)    1)    24,937	3. MAJOR PROJECT(S) PROPOSED			(Description) The dredging was completed.
4. REFERENCE NO.			Plan for deepening the shallow areas(4 sites) in Singapore Strait.			
5. TYPE OF STUDY	M/P		Based upon the bathymetric surveys, seismic surveys, Boring, and Inspection by divers, the followings are proposed.			
6. COUNTERPART AGENCY	Port and Harbour Bureau, Ministry of Transport		(1) Dredging Method: Grab Dredger (2) Dredging Volume: 484,000cu.m (area 165,000sq.m) (3) Monthly Production: 38,000cu.m (by 7cu.m Grab) 89,900cu.m (by 13cu.m Grab)			
7. OBJECTIVES OF STUDY	Proposal on dredging method and cost estimates		4. CONDITIONS AND DEVELOPMENT IMPACTS			
8. DATE OF S/W	Jul. 1978		Very Large Carriers (Vessels) can pass the Singapore strait. It enables that far eastern countries can obtain crude oil and other raw materials for cheaper transportation cost.			
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan		5. TECHINICAL TRANSFER			
10. STUDY TEAM	No. of Members    2 Period            Aug. 1978 - Mar. 1979 (6 months)  Total M/M            32.50 Japan            13.13 Field            19.37		2. MAJOR REASONS FOR PRESENT STATUS			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY			3. PRINCIPAL SOURCES OF INFORMATION			
12. EXPENDITURE	Total            124,172 (¥000) Contracted      113,950		①			

和名 浅瀬浚渫計画

{M/P, M/P+(F/S), Basic Study, Other}

PROJECT SUMMARY (F/S)

ASO SGP/S 301/86

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Singapore	1. SITE OR AREA	Sentosa Island of Singapore			1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Plant Renovation Project of the Sentosa-1 Earth Station	2. PROJECT COSTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Communications & Broadcasting/ Telecommunication		(US\$1,000) 1) 770	2) 2,160	3)	(Description)  The project was discontinued.  1) The antenna was the old type (york tower type) which is less flexible for expansion. 2) INTELSAT standards of the antenna was changed when the study was completed.
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	The Plant Renovation Project: 1) 5 years life extension Antenna mechanical part & structure - partial repair Antenna servo drive system - to replace some devices 2) 10 years life extension Antenna mechanical part & structure - total repair Antenna servo drive system - to replace all High Power microwave transmitter - extension for TDMA system			
5. TYPE OF STUDY	F/S	Implementation Period:	Aug.1985 - Jan.1986			
6. COUNTERPART AGENCY	Telecommunication Authority of Singapore	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
7. OBJECTIVES OF STUDY	To study the plant renovation of the SENTOSA-1 E/S	Feasibility:				
8. DATE OF S/W	Feb.1985	Conditions and Development Impacts:	(1) The objectives of study was to investigate the feasibility of service life extension over the design life of the earth station. (2) The result of the study(report) gave exact information of the earth station expansion project in Singapore Telecoms			
9. CONSULTANT(S)	Japan Telecommunications Engineering and Consulting Service	5. TECHINCAL TRANSFER	Accurate To submit the diagnosis of service life extension over the design life of the antenna			
10. STUDY TEAM	No. of Members 4 Period Mar.1986 - Jul.1986 (5 months)  Total M/M 7.64 Japan 5.40 Field 2.24	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY				
12. EXPENDITURE	Total 24,504 (¥'000) Contracted 18,662	12. EXPENDITURE				
		2. MAJOR REASONS FOR PRESENT STATUS				
		3. PRINCIPAL SOURCES OF INFORMATION	①			

和名 セントサ衛星地球局補修計画

{F/S, (M/P)+F/S, D/D}

PROJECT SUMMARY (F/S)

ASO SGP/S 302/88

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Singapore	1. SITE OR AREA	5 routes		1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Singapore Urban Transport Improvement	2. PROJECT COSTS	Total Cost	Local Cost	
3. SECTOR	Transportation/ Urban Transportation		1) 700,000		
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	2)		
5. TYPE OF STUDY	F/S	Improvement plans of feeder transport system by applying new transit systems for five (5) selected areas have been prepared. Their feasibility were preliminarily assessed from technical, economic, financial and environmental aspects, except for Ang Mo Kio New Town System, which was evaluated in detail. The projects include the following components: 1) Route and alignment plan, including location of stations. 2) Infrastructure (structure, station, yard) plan and preliminary design. 3) Selection of transit system and operation plan. 4. Based on the study results, a seminar was requested and held in Feb. 1989. Approximately 300 participants, mostly from government agencies, added knowledge of new transit systems and their application for feeder service improvement. 5. Among the five (5) routes, the Sentosa route interested Sentosa Development Corporation and PWD, a part of which is being intended for international tender. Singapore New Town System is being studied on the basis of the recommendations furthered by the Housing Development Board which is to be developed in an integral manner with new town. Ang Mo Kio New Town - Marina Parade route has been developed in the official arterial transport network plan. No significant movements for Ang Mo Kio New Town route and Orchard-Marina Centre route.		(Description) 1) A seminar was held on the results of the study 2) Sentosa Development Corporation and the Public Works Department are interested in the Orchard - Sentosa Route, and taking steps to realize its implementation	
6. COUNTERPART AGENCY	Public Works Department, Min. of National Development	Implementation Period:			2. MAJOR REASONS FOR PRESENT STATUS 1. Since there are many other new towns, it is difficult for the government to get a consensus for constructing a system for Ang Mo Kio New Town unless the government commit it for the rest. 2. The area along Orchard-Marina Centre has been highly developed and more detailed studies and coordination among relevant interested bodies are necessary.
7. OBJECTIVES OF STUDY	Evaluation of technical and operational feasibility of introducing a new transport system	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	
8. DATE OF S/W	Apr. 1987	Feasibility: Yes			3. PRINCIPAL SOURCES OF INFORMATION ①
9. CONSULTANT(S)	ALMEC Corporation and Pacific Consultants International	Conditions and Development Impacts: Condition: Smooth linkage with the trunk system. Development impacts: 1) Reduction of pollution (air pollution and noise) 2) Improvement of traffic safety 3) Time saving by passengers 4) Urban development in the vicinities of stations.			
10. STUDY TEAM	No. of Members 11 Period Aug. 1987 - Nov. 1988 (15 months) Total M/M 53.23 Japan 8.70 Field 44.53	5. TECHNICAL TRANSFER			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey				
12. EXPENDITURE	Total 209,764 (Y'000) Contracted 195,078				

和名 都市交通改善計画

(F/S, (M/P)+F/S, D/D)

**PROJECT SUMMARY (F/S)**

ASE SGP/S 303 /90

Compiled March 1992  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT																															
1. COUNTRY	Singapore	1. SITE OR AREA	Central and north-east of Singapore			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing																													
2. NAME OF STUDY	Selected Expressways	2. PROJECT COSTS	Total Cost	Local Cost	Foreign Cost		(Description)	<p>A part of PIE was tendered during the study period and some contractors were selected for the improvement of work. The next section will be tendered near future. KLE and PYE will be proceeded to the next phase such as detailed design, tender and construction in accordance with the scheduled plan by PWD. As for PYE, the target year is determined to be the year 2009 due to the loan condition of necessary land, and therefore the probability of its construction depends on the Singapore's economic situation after the year 2000.</p> <p>Following schedule is considered.</p> <table border="0"> <tr> <td>PIE PIE/Woodsville Road IC - PIE/CTE IC</td> <td>Completion in 1994</td> </tr> <tr> <td>PIE/CTE IC West</td> <td>- PIE/BKE IC Completion in 1995</td> </tr> <tr> <td>KLE KLE/ECP IC - KLE/PIE IC</td> <td>Completion in 1997</td> </tr> <tr> <td>PYE PYE/PIE IC - PYE/TPE IC</td> <td>Completion in 2010</td> </tr> </table> <p>Estimated Project Cost (Unit: million S\$)</p> <table border="0"> <tr> <td>Items</td> <td>PIE</td> <td>KLE</td> <td>PYE</td> </tr> <tr> <td>Construction Cost</td> <td>84.4</td> <td>276.4</td> <td>358.1</td> </tr> <tr> <td>Land Acquisition and Compensation Costs</td> <td>0.0</td> <td>33.2</td> <td>17.3</td> </tr> <tr> <td>Contingencies (10%)</td> <td>8.4</td> <td>31.0</td> <td>37.5</td> </tr> <tr> <td>Total</td> <td>92.8</td> <td>340.6</td> <td>412.5</td> </tr> </table>		PIE PIE/Woodsville Road IC - PIE/CTE IC	Completion in 1994	PIE/CTE IC West	- PIE/BKE IC Completion in 1995	KLE KLE/ECP IC - KLE/PIE IC	Completion in 1997	PYE PYE/PIE IC - PYE/TPE IC	Completion in 2010	Items	PIE	KLE	PYE	Construction Cost	84.4	276.4	358.1	Land Acquisition and Compensation Costs	0.0	33.2	17.3	Contingencies (10%)	8.4	31.0	37.5	Total	92.8	340.6
PIE PIE/Woodsville Road IC - PIE/CTE IC		Completion in 1994																																		
PIE/CTE IC West	- PIE/BKE IC Completion in 1995																																			
KLE KLE/ECP IC - KLE/PIE IC	Completion in 1997																																			
PYE PYE/PIE IC - PYE/TPE IC	Completion in 2010																																			
Items	PIE	KLE	PYE																																	
Construction Cost	84.4	276.4	358.1																																	
Land Acquisition and Compensation Costs	0.0	33.2	17.3																																	
Contingencies (10%)	8.4	31.0	37.5																																	
Total	92.8	340.6	412.5																																	
3. SECTOR	Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	Improvement of PIE (Pan Island Expressway, l=8.65km), new construction of KLE (Kallang Expressway l=2.68km) and PYE (Paya Lebar Expressway l=10.17km)																																	
4. REFERENCE NO.		Implementation Period:	1990 - 2009																																	
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR																																
6. COUNTERPART AGENCY	Public Works Department (PWD) Ministry of National Development (MND)	Feasibility:	6.0%	60.0%																																
7. OBJECTIVES OF STUDY	Analysis of feasibility on the selected three expressways; PIE, KLE, and PYE.	Conditions and Development Impacts:	79.5%																																	
8. DATE OF S/W	Oct. 1989	Conditions:	PIE: Widening of expressway from 6 lanes to 8 lanes KLE & PYE: New construction of expressway with 6 lanes respectively																																	
9. CONSULTANT(S)	Oriental Consultants Co., Ltd.	Effects:	1. Saving of total travelling time 2. Saving of total vehicle operating cost 3. Reduction of traffic accidents and environmental impacts																																	
10. STUDY TEAM	No. of Members 9 Period Mar. 1990 - Mar. 1991 (13 months)  Total M/M 46.08 Japan 2.50 Field 43.58	The improvement of PIE (Pan Island Expressway) and construction of proposed KLE (Kallang Expressway) and PYE (Paya Lebar Expressway) were necessary in due course, that the alternatives selected for each expressway was feasible in every aspects of technical, socio-economy and economics, and that the implementation of such projects would contribute to national development.	5. TECHNICAL TRANSFER																																	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY			1. Methodology of alternative evaluation. 2. Clarification of issues solved and proposal of solutions.																																	
12. EXPENDITURE	Total 164,071 (¥'000) Contracted 152,700		3. PRINCIPAL SOURCES OF INFORMATION																																	
			①																																	

和名 カラン・パヤレバ高速道路計画

(F/S, (M/P)+F/S, D/D)

**PROJECT SUMMARY (F/S)**

ASO LKA/S 301/77

Compiled March 1986  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Colombo and six other major cities		1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing															
2. NAME OF STUDY	Outside Colombo Area Telecommunication Development Scheme: Stage II Project	2. PROJECT COSTS	(US\$1=15.56 Rp.) <table border="1"> <tr> <td></td> <td>Total Cost</td> <td>Local Cost</td> <td>Foreign Cost</td> </tr> <tr> <td>1)</td> <td>5,936</td> <td>2,809</td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	1)	5,936	2,809		2)				3)		
	Total Cost	Local Cost	Foreign Cost																	
1)	5,936	2,809																		
2)																				
3)																				
3. SECTOR	Communications & Broadcasting/ Telecommunication	3. CONTENTS OF MAJOR PROJECT(S)	- Incorporation into automatic connection network (6 stations) - Cross-bass switching system (9 sets) - Inter-city transmission lines (micro-radio wave, UHF, short-distance transmission) - Intra-city cables (overhead 68 km, underground 30.5 km) - Station buildings (5 locations)		(Description)  1978 Mar. OECF loan agreement (1,940 million yen)															
4. REFERENCE NO.		Implementation Period:	1979 - 1982																	
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR																
6. COUNTERPART AGENCY	Ministry of Post and Telecommunication	Feasibility:	Yes																	
7. OBJECTIVES OF STUDY		Conditions and Development Impacts:	Development impacts:																	
8. DATE OF S/W		10. STUDY TEAM	1) Extension of telecommunication to areas which are now inadequately serviced. 2) Increase of subscribers 3) Stimulation of development in Colombo and other six cities.		2. MAJOR REASONS FOR PRESENT STATUS															
9. CONSULTANT(S)		No. of Members	10																	
		Period	Jan.1977 - Jul.1977 (5 months)																	
		Total M/M	21.0																	
		Japan	2.0																	
		Field	19.0																	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER			3. PRINCIPAL SOURCES OF INFORMATION  ①															
12. EXPENDITURE		Total	22,095 (¥'000)																	
		Contracted	69,027																	

和名 電気通信網整備計画

(F/S, (M/P)+F/S, D/D)



## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	The area which will be irrigated by Angamedilla anicut and Elaheera anicut on the Amban ganga (62,200ha)		
2. NAME OF STUDY	Moragahakanda Agricultural Development Project	2. PROJECT COSTS	US\$1=15Rs in Dec.1978		
3. SECTOR	Agriculture/ General		Total Cost	Local Cost	Foreign Cost
4. REFERENCE NO.			1) 187,470	63,670	123,800
5. TYPE OF STUDY	F/S		2)		
6. COUNTERPART AGENCY	Mahaweli Development Board	3. CONTENTS OF MAJOR PROJECT(S)	3)		
7. OBJECTIVES OF STUDY	Development by dam construction and the downstream development.	1. Dam and Reservoir Effective Storage Capacity: 686 MCM Dam Type : Rockfill (Main Dam and 2nd saddle-dam) Concrete Gravity (1st Saddle-dam)			
8. DATE OF S/W	Jul. 1978	2. Downstream Development Irrigation area: 62,200 ha Canal Irrigation Canal 145.2 km Drainage Canal 91.4 km			
9. CONSULTANT(S)	Japan Engineering Consultants Co., Ltd. Nippon Koei Co., Ltd.	Implementation Period: 1980 - 1988			
10. STUDY TEAM	No. of Members 15 Period Oct. 1978 - Sep. 1979 (10 months)  Total M/M 92.70 Japan 51.10 Field 41.60	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Feasibility: Yes	12.0%		
12. EXPENDITURE	Total 231,530 (¥'000) Contracted 210,460	Conditions and Development Impacts: Conditions: Benefit by hydroelectric power for the electric supply capacity and by irrigation for the agricultural products. Development Impacts: Increase of the agricultural products, Improvement of an unemployment problem Development of social economy			
		5. TECHINICAL TRANSFER	OJT		
			1. PRESENT STATUS		
			<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled		
			(Description)		
			Moragahakanda agricultural development project (Dec.1979-F/S) was reviewed again and a survey for Mahaweli ganga master plan was executed and its report was submitted on May.1989. After presentation of this report, Master Plan of Feasibility Plan in the same name as this study was done for reconsideration and completed in 1990.  FY 1991 Overseas Survey )  No additional information		
			2. MAJOR REASONS FOR PRESENT STATUS		
			Under adjustment of priority for project in the government of Sri Lanka.		
			3. PRINCIPAL SOURCES OF INFORMATION		
			①, ②		

和名 モラガハカンダ農業開発計画

{F/S, (M/P)+F/S, D/D}

**PROJECT SUMMARY (M/P + F/S)**

ASO LKA/S 201A/80

Compiled March 1986  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Colombo, Trincomalee, Gall, Jafena			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Port Improvement Programme	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=218.89Yen) Total Cost    Local Cost    Foreign Cost			
3. SECTOR	Transportation/ Port	(US\$1,000)	1) 70,458	16,418	54,040	(Description) It has been included in National Development Plan, and it is now under construction.  (FY 1991 Overseas Survey) No additional information
4. REFERENCE NO.		3. MAJOR PROJECT(S) PROPOSED				
5. TYPE OF STUDY	M/P+(F/S)	Major Components for Colombo Port Conventional Berth New berth 1berth(-12mX250m) Expansion 2 " (-9mX165m, Expansion 50m)				
6. COUNTERPART AGENCY	Sri Lanka Ports Authority(SLPA)	Container Berth    New berth 3 nos. Oil Berth        New        1 " Cargo Handling Machine Fork lifts 85 nos. Cranes         9 nos.(mobile 8, floating 1)				
7. OBJECTIVES OF STUDY	Short Term Development Plan, and Long Term Development Plan	Road            4 lanes X 5.7 km				
8. DATE OF S/W	May 1979	4. CONDITIONS AND DEVELOPMENT IMPACTS				
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan	Eliminating the congestion in the port, Decreasing ship waiting time.				
10. STUDY TEAM	No. of Members 9 Period Jun.1979 - Mar.1980 (9 months)  Total M/M 46.14 Japan 33.6 Field 12.54	5. TECHINCAL TRANSFER				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Giving lecture on the methods for Port Planning.				
12. EXPENDITURE	Total 104,401 (Y'000) Contracted 89,707	3. PRINCIPAL SOURCES OF INFORMATION				
		(1)				
		2. MAJOR REASONS FOR PRESENT STATUS				

和名 港湾整備計画

(M/P, M/P+(F/S), Basic Study, Other)

PROJECT SUMMARY (M/P + F/S)

ASO LKA/S 201B/80

Compiled March 1986  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Colombo	1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Port Improvement Programme	2. PROJECT COSTS	(US\$1=218.89Yen) Total Cost      Local Cost      Foreign Cost 1)                      70.458              16,418 (US\$1,000) 2) 3)	(Description)	
3. SECTOR	Transportation/ Port	3. CONTENTS OF MAJOR PROJECT(S)			
4. REFERENCE NO.		Urgent Plan: Transferring the Existing Conventional Berths to Container Berths                      l=200 X d=-11 m New container Berths                      l=300 X d=-12 m New conventional wharves                      l=250 X d=-12 m Road    l=5.7km X b=10 m		(1) OECF Loan Date of Loan Agreement (L/A)      Amount Oct. 1980                                      7,600 million Yen Apr. 1984                                      6,362      " Jan. 1985                                      2,579      " Oct. 1987                                      1,955      " Mar.1990                                      6,329      "	
5. TYPE OF STUDY	(M/P)+F/S	Implementation Period:	Feb.1981 - Dec.1983	Construction for port improvement began in October 1988. Construction for port expansion began in May 1990.  (FY 1991 Overseas Survey)  1991 Construction is started. 1993 The project is planned to be completed.	
6. COUNTERPART AGENCY	Sri Lanka Ports Authority	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR      FIRR 17.1%      8.22%	2. MAJOR REASONS FOR PRESENT STATUS	
7. OBJECTIVES OF STUDY	Formulating of: Short Term Development Plan and Long Term Development Plan	Feasibility: Yes			
8. DATE OF S/W	May 1979	Conditions and Development Impacts:		3. PRINCIPAL SOURCES OF INFORMATION	
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan	Conditions; Targetted year      Urgent Plan = 1983 Master Plan = 1988 GDP Growth              5.5% per annum Population Growth      1.5% per annum Port Tariff shall be raised by 25% Development Impacts Eliminating the congestion in the Port Decreasing ship waiting time			
10. STUDY TEAM	No. of Members 9 Period Jun.1979 - Mar.1980 (9 months)  Total M/M      46.14 Japan              33.6 Field              12.54	5. TECHINCAL TRANSFER	Giving lecture on the methods for Port Planning	Big return from the project   ①②	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 104,401 (¥'000) Contracted 89,707				

和名 港湾整備計画

{F/S, (M/P)+F/S, D/D}

**PROJECT SUMMARY (Other)**

ASO LKA/S 601/80

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Sri Lanka	1. SITE OR AREA		1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Development Project of the Port of Colombo (follow-up)	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost    Local Cost    Foreign Cost	(Description)	
3. SECTOR	Transportation/ Port	3. MAJOR PROJECT(S) PROPOSED	1) (US\$1,000)    2)		
4. REFERENCE NO.		The study team explained the technical issues involved in the construction of the container berth which was proposed by the F/S conducted in FY 1979 and will be financed by OECF.			
5. TYPE OF STUDY	Other	4. CONDITIONS AND DEVELOPMENT IMPACTS			
6. COUNTERPART AGENCY		5. TECHNICAL TRANSFER			
7. OBJECTIVES OF STUDY	Technical explanation to the government authorities	12. EXPENDITURE			
8. DATE OF S/W		Total                    1,510 (¥000)			
9. CONSULTANT(S)		Contracted            1,510			
10. STUDY TEAM	No. of Members Period            Aug.1980 - Sep.1980 (.25  Total M/M Japan Field	2. MAJOR REASONS FOR PRESENT STATUS			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		3. PRINCIPAL SOURCES OF INFORMATION			

和名 コロンボ港整備計画アフターケア

[M/P, M/P+(F/S), Basic Study, Other]

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Right Bank on the lower Mahaweli Ganga (68,000ha)			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	(Mahaweli Ganga Agricultural Development System C)	2. PROJECT COSTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Agriculture/ General		1) 85,300	40,100	45,200	(Description)  D/D and Supervision executed Technical Assistance with regard to the Operation and Management in the project area has completed and Supervision of parts of terminal facilities is being executed Consultants: Nippon Koei Co.,Ltd. Japan Engineering Consultants Co.,Ltd. Chuo Kaihatsu Corporation 1988.7.15 OECF L/A 1.85 billion Yen (Rehabilitation of irrigation facilities in Minipe and Nagadeepa) 1989.4.17 grant aid E/N 449 million Yen (rural development plan in Minipe and Nagadeepa) 1989.6.22 grant aid E/N 709 million Yen (Integrated rural development plan in Minipe and Nagadeepa)  (1991 Overseas Survey) The project is its under way. 99% of the project has completed.
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	2) (US\$1,000)			
5. TYPE OF STUDY	F/S		3)			
6. COUNTERPART AGENCY	Mahaweli Development Board	1. Main Canal				
7. OBJECTIVES OF STUDY	Agricultural products increased by improvement of irrigation system	2. Branch Canal				
8. DATE OF S/W		3. Farm ditch				
9. CONSULTANT(S)	Japan Engineering Consultants Co.,Ltd. Nippon Koei Co.,Ltd.	4. Reclamation				
10. STUDY TEAM	No. of Members 6 Period Mar.1981 - Mar.1981 (1 months)  Total M/M 3.00 Japan 1.80 Field 1.20	Implementation Period:		1982 - 1986		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		4. FEASIBILITY AND ITS ASSUMPTIONS		EIRR 16.8%		
12. EXPENDITURE	Total 28,983 (¥'000) Contracted 7,000	Feasibility: Yes				
		Conditions and Development Impacts:				
		Conditions: Benefit by agricultural products increase Development Impacts: Improvement of agricultural products increase and agricultural income Contribution to alleviating the food shortage problem				
		5. TECHNICAL TRANSFER				
					2. MAJOR REASONS FOR PRESENT STATUS	
					3. PRINCIPAL SOURCES OF INFORMATION	
					①, ②	

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Amparai district located at east coast Ceylon Island			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Water Supply Scheme for Amparai Group of Towns	2. PROJECT COSTS	(US\$1=250Yen=20.8Rp)			
3. SECTOR	Public Utilities/ Water Supply		Total Cost	Local Cost	Foreign Cost	(Description)  The study has been highly appreciated by the National Water Supply and Drainage Board. The Ministry of Finance was planning to execute the project upon confirmation of availability of local currency portion. As of Aug.1987, it was reported that the project was started by IDA fund and a British consultant was selected in July 1987.  ditto (1991)  (FY 1991 Overseas Survey) No additional information
4. REFERENCE NO.			1) 20,300	13,100	7,200	
5. TYPE OF STUDY	F/S		2)			
6. COUNTERPART AGENCY	National Water Supply and Drainage Board	3. CONTENTS OF MAJOR PROJECT(S)	3)			
7. OBJECTIVES OF STUDY	F/S on local water supply system for improvement on shortage of supply and environment hygiene	Service Area	1995 : 2,732 ha			
8. DATE OF S/W	Dec.1981	Served Population	1995 : 172,300			
9. CONSULTANT(S)	Nihon Suido Consultants Co.,Ltd.	2005 : 261,100				
10. STUDY TEAM	No. of Members 6 Period Feb.1982 - Oct.1982 (8 months)	Daily Max.	1995 : 27,400 cu.m/day			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		2005 : 53,900 cu.m/day				
12. EXPENDITURE	Total 112,094 (¥'000) Contracted 103,138	Water Sources	Amparai area : Amparai reservoir Coastal area : Sambuveli weir (surface water)			
		Implementation Period:	Jun.1983 - Dec.1986			
		4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR 4.91%	FIRR		
		Feasibility:				
		Conditions and Development Impacts:				
		In the project area, people get potable water out of shallow wells. With the proposed project, environment will improve and also employment opportunities increase. At present, water has been supplied to only 27,000 persons among project area population of 146,000(1981). However, by the project execution, water will be supplied to 172,000 persons out of project area population of 237,000 in the year 1995.			2. MAJOR REASONS FOR PRESENT STATUS	
		5. TECHINCAL TRANSFER	Carried out the training program on the water supply planning to two counterpart staff		Due to shortage of government fund, the Sri Lanka Government did not make any official request for assistance from Japan.	
				3. PRINCIPAL SOURCES OF INFORMATION	①②	

**PROJECT SUMMARY (Other)**

ASO LKA/S 602/82

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	katunayake			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Colombo Airport Development (follow-up)	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=20.55Yen) Total Cost: Local Cost Foreign Cost 1) 115,739 25,525 2)			
3. SECTOR	Transportation/ Air Transportation & Airport	3. MAJOR PROJECT(S) PROPOSED	As a result of comparative study of urgency between new runway construction and terminal complex development, new runway construction is recommended as having a higher priority.			(Description) The project was included in the 1984 Public Investment Plan and was completed in 1988. The F/S was undertaken by Netherlands Airport Consultants BV (NACO). Financing was as follows. OECE - Passenger Terminal (10,200 million yen) EXIM Japan - Runway UK ODA - Navalds France - Other facilities  <FY1991 Overseas Survey> No additional information.
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	Greatly improved handling of air passengers and other users of airport is expected to contribute to earning of foreign exchange.			
5. TYPE OF STUDY	Other	5. TECHINCAL TRANSFER	OJT is made by having the local consultants assist the Japanese consultants in the supervision of construction.			
6. COUNTERPART AGENCY	Airport and Aviation Service(S.L.) Ltd.	2. MAJOR REASONS FOR PRESENT STATUS				
7. OBJECTIVES OF STUDY	Detailed investigation of construction cost	3. PRINCIPAL SOURCES OF INFORMATION	①, ②			
8. DATE OF S/W						
9. CONSULTANT(S)	Japan Airport Consultants, Inc.					
10. STUDY TEAM	No. of Members 2 Period Dec.1981 - May 1982 (6 months)  Total M/M 4.42 Japan 3.26 Field 1.16					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY						
12. EXPENDITURE	Total 26,740 (¥'000) Contracted 8,869					

和名 コロンボ空港整備計画アフターケア

{M/P, M/P+(F/S), Basic Study, Other}

PROJECT SUMMARY (F/S)

ASO LKA/S 303/83

Compiled March 1986  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Colombo metropolitan area			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Colombo - Katunayake Expressway and New Port Access Road Project	2. PROJECT COSTS	(US\$1/225Yen=23Rs)			
3. SECTOR	Transportation/ Road		Total Cost	Local Cost	Foreign Cost	(Description)  1987 Sept. OECF E/S loan agreement on port access road (1.5 km)  1990 Mar. OECF E/S loan agreement (520 million yen) on Colombo - Katunayake Express way Jun. Commencement of this project, Completion of Review of F/S on October, Commencement of Preliminary Design from November and Detailed Design will be completed up to December
4. REFERENCE NO.			1) 51,080	19,790		
5. TYPE OF STUDY	F/S	3. CONTENTS OF MAJOR PROJECT(S)	2) (US\$1,000)			
6. COUNTERPART AGENCY	Greater Colombo Economic Commission (GCEC)		3)			
7. OBJECTIVES OF STUDY		Project A: Project road, link and other related roads (total length of 25.4 km)				
8. DATE OF S/W	Sep.1982	Project B: Project road, link and other related roads (total length of 5.7 km)				
9. CONSULTANT(S)	Japan Bridge and Structure Institute and Kokusai Kogyo Co.	Implementation Period: Jan.1986 - Dec.1989				
10. STUDY TEAM	No. of Members 21 Period Dec.1982 - Jan.1984 (13 months)  Total M/M 65.59 Japan 7.49 Field 58.1	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic and geological survey	Feasibility: Yes	18.5%			
12. EXPENDITURE	Total 203,467 (¥'000) Contracted 193,010	Conditions and Development Impacts: Conditions: 1) Project life of 25 years; 2) the start of operation in 1990; 3) opportunity cost of capital at 12%; and 4) benefits in 1990 and 2000 calculated by intrapolation.  Development impacts: 1) Stimulation of development in Greater Colombo and Gampaha District; 2) facilitation of industrial growth in Katunayake Investment Promotion Zone and elsewhere; 3) tourism promotion; 4) alleviation of traffic congestion on the Negombo road; 5) administrative improvement.				
		5. TECHINCAL TRANSFER				
		1) Participation of 2 trainees in JICA training program 2) OJT				
					2. MAJOR REASONS FOR PRESENT STATUS  New road construction project was not executed since the civil war has happened in Sri Lanka, however, with turning for the better politic and economic condition, this project is being executed for promotion of development plan, promotion of industrial development and to accommodate traffic conjection.	
					3. PRINCIPAL SOURCES OF INFORMATION  ①②	

和名 コロンボ周辺道路網整備計画

(F/S, (M/P)+F/S, D/D)

**PROJECT SUMMARY (F/S)**

ASO LKA/S 304/83

Compiled March 1986  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Colombo metropolitan area		
2. NAME OF STUDY	Telecommunications Network Improvement Project in Greater Colombo	2. PROJECT COSTS	(US\$1=270Yen)		
3. SECTOR	Communications & Broadcasting/ Telecommunications		Total Cost	Local Cost	Foreign Cost
4. REFERENCE NO.			1) 38,333	4,526	33,807
5. TYPE OF STUDY	F/S		2)		
6. COUNTERPART AGENCY	SLTD	3. CONTENTS OF MAJOR PROJECT(S)	3)		
7. OBJECTIVES OF STUDY	Feasibility study on "Telecommunications Network Improvement Project in Greater Colombo" as an integral part of the National Development Plan.	Contents	Construction of the Subscriber Network for 7 exchanges and Junction Network for 24 exchanges covering the Greater Colombo.		
8. DATE OF S/W	Dec.1982	Scale	Subscriber cable 1,097 km Junction 109 km		
9. CONSULTANT(S)	Nippon Telecommunication Consulting Co., Ltd.	Implementation Period:	Aug.1986 - Nov.1988		
10. STUDY TEAM	No. of Members 15 Period Jan.1983 - Nov.1983 (11 months)  Total M/M 46.3 Japan 11.7 Field 34.6	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Feasibility: Yes	29.7%	15.2%	
12. EXPENDITURE	Total 117,636 (¥000) Contracted 109,525	Conditions and Development Impacts:	Most of the existing outside plant were installed more than 20 years ago, and the number of circuit is too small to meet the present demand. In addition, many of the existing cable have been deteriorated. To improve such situation SLTD request the Government of Japan.		
		5. TECHINCAL TRANSFER	(1) Joint preparation of report: 2 senior engine of SLTD and director of bureau invited Japan, preparation of report. (2) On the job training (SLTD counterparts)		
			1. PRESENT STATUS		
			<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled		
			(Description)		
			May 1985 OECF loan agreement (10,359 million yen) (Ph-I) Mar.1991 Construction completed Mar.1991 OECF Loan Agreement (Ph-II) Dec.1991 Consulting Service Agreement Jul.1995 Construction is scheduled to be completed		
			2. MAJOR REASONS FOR PRESENT STATUS		
			(1) High priority; This project is considered top priority by the Government of Sri Lanka.		
			3. PRINCIPAL SOURCES OF INFORMATION		
			①②		

和名 大コロポ電気通信網整備計画

(F/S, (MP)+F/S, D/D)

PROJECT SUMMARY (M/P)

ASO LKA/S 101/85

Compiled March 1988  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Whole country			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Master Plan for the Domestic Telecommunication Network	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$=26.00Rp) Total Cost    Local Cost    Foreign Cost			
3. SECTOR	Communications & Broadcasting/ Telecommunications	(US\$1,000)	1) 29,307			(Description) The government of Sri Lanka applied the project (the Greater Colombo Telecommunications Improvement Project for yen credit, and OECF pledged financing in October 1990.  Jan.1991 E/N Mar.1991 OECF Loan Agreement (Ph-II) Dec.1991 Consulting Service Agreement Jul.1995 This project is scheduled to be completed
4. REFERENCE NO.		3. MAJOR PROJECT(S) PROPOSED				
5. TYPE OF STUDY	M/P	To propose 100% of Digitalization of Trunk Network in the year 2000 and the network development for the following towns (1) Greater Colombo Area Telecommunications Improvement Project-2 (2) SLTD Organization Improvement project (3) Subscriber's line expansion project and Telecommunications network expansion project for rural towns/villages				
6. COUNTERPART AGENCY	Ministry of Posts and Telecommunications Development.	4. CONDITIONS AND DEVELOPMENT IMPACTS				
7. OBJECTIVES OF STUDY	To study the Master Plan for telecommunications development in the year 2000.	Conditions: To realize 100% of demand fulfillment and 100% of digitalization in the year 2000 Impacts: To decrease the difference in Quality and in Quality between Urban area and Rural area.				
8. DATE OF S/W	Aug.1984	5. TECHINCAL TRANSFER				
9. CONSULTANT(S)	Nippon Telecommunications Consulting Co., Ltd.	(1) Trainee acceptance: 3 counterparts invited Japan, for one month (2) On the job training (SLTD counterparts)				
10. STUDY TEAM	No. of Members 12 Period Dec.1984 - Oct.1985 (11 months)  Total M/M 50.02 Japan 28.22 Field 21.8	3. PRINCIPAL SOURCES OF INFORMATION				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		①				
12. EXPENDITURE	Total 136,112 (¥'000) Contracted 128,045	2. MAJOR REASONS FOR PRESENT STATUS				
		(1) Effectiveness (2) High priority				

和名 全国電気通信網整備計画

{M/P, M/P+(F/S), Basic Study, Other}

**PROJECT SUMMARY (M/P + F/S)**

ASO LKA/S 202A/89

Compiled March 1991  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Colombo Port			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Development of the Port of Colombo	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Transportation/ Port	(US\$1,000)	1) 257,849	42,117	215,732	(Description) Oct. 1989 OECF loan agreement on Jaye Container Terminal No.3 Oct. 1991 Construction work of JCT No.3 was commenced Sept. 1991 Appraisal Mission for No.4 Berth will be dispatched (FY 1991 Overseas Survey) No additional information
4. REFERENCE NO.		2) 667,235	3. MAJOR PROJECT(S) PROPOSED			
5. TYPE OF STUDY	M/P+(F/S)	Main Works of Alternative-A				
6. COUNTERPART AGENCY	Sri Lanka Ports Authority	1) Short Term JCT No.3 JCT No.4				
7. OBJECTIVES OF STUDY	F/S, M/P, & ST/P	2) Master Plan (including short-term) North Channel FCT QCT No.1 (-14.0, 330m) QCT No.2 ( " " ) QCT No.3 ( " " ) Realignment Channel Port Highway				
8. DATE OF S/W	Mar.1988	4. CONDITIONS AND DEVELOPMENT IMPACTS				
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Japan Port Consultants Co.,Ltd.	1. Contributing to earning of foreign currency through handling more transhipment container cargo 2. Activation of international trade in Sri Lanka and neighboring countries. 3. Improving reliability of the port of Colombo through development of container terminal				
10. STUDY TEAM	No. of Members 10 Period Nov.1988 - Dec.1989 (13 months)  Total M/M 56.3 Japan Field	5. TECHINCAL TRANSFER				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Boring, Topographic Survey, Bathymetric Survey	On the job, Through discussion ,JICA training course				
12. EXPENDITURE	Total 175,721 (¥000) Contracted 176,480	3. PRINCIPAL SOURCES OF INFORMATION				
						①, ②
						2. MAJOR REASONS FOR PRESENT STATUS
						Good Coordination Among Concerned Agencies The project was commenced on good timing for adapting to the change of containerizaation in the world.

和名 コロンボ港開発計画

{M/P, M/P+(F/S), Basic Study, Other}

**PROJECT SUMMARY (F/S)**

ASO LKA/A 304/85

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Minipe scheme 6,800ha Nagadeepa scheme 2,400ha	1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Rehabilitation of Tank Irrigation Project	2. PROJECT COSTS	US\$1=27.5Rs Total Cost 16,830 Local Cost 9,370 Foreign Cost 7,460	(Description)	
3. SECTOR	Agriculture/ Irrigation, Drainage & Reclamation	3. CONTENTS OF MAJOR PROJECT(S)			
4. REFERENCE NO.		1. Canal System	Minipe Main Canal 55.3km Branch Canal - D Canal 70.3 F Canal 42.0 Heen Ganga Intake 7.4(H) X 74m(L)	1. Basic Design Survey : Minipe and Nagadeepa rural development project Japan Engineering Consultants Co.,Ltd.: Field Survey (Jul.-Sep.1988) Objective: Improvement of domestic water supply and Road Rehabilitation 1989.4.17 grant aid E/N 449 million Yen 2. Japanese Grant Aid: Minipe and Nagadeepa rural development project D/D, Supervision : Japan Engineering Consultants Co.,Ltd. Phase I has been completed and Phase II will be completed in Mar.1991 3. OECF Loan: The Rehabilitation of Tank Irrigation Project D/D, Supervision : Japan Engineering Consultants Co.,Ltd. (Mar.1990 - Mar.1995)	
5. TYPE OF STUDY	F/S	2. Road System	Rehabilitation of Road 18.8km Bridge -		
6. COUNTERPART AGENCY	Ministry of Lands and Land Development	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR 17.1% FIRR	2. MAJOR REASONS FOR PRESENT STATUS	
7. OBJECTIVES OF STUDY	To stabilize agricultural products and increase incomes and living standard	Feasibility: Yes	Implementation Period: till after 5 years		
8. DATE OF S/W	Jun. 1984	Conditions and Development Impacts:		3. PRINCIPAL SOURCES OF INFORMATION	
9. CONSULTANT(S)	Japan Engineering Consultants Co.,Ltd. Kyowa Consultants Co.,Ltd.	Conditions: Agricultural products and farmer's income are expected to go up by (a) extending irrigation area during dry season (b) growth of yield per unit area (c) agricultural diversification Development Impacts: Stabilizing agricultural products and upgrading the income by (a) rehabilitating the existing irrigations and road system (b) ensuring proper operation and maintenance of the system			
10. STUDY TEAM	No. of Members 10 Period Jan.1985 - Mar.1986 (15 months)  Total M/M 50.29 Japan 18.33 Field 31.96	5. TECHNICAL TRANSFER	1. OJT 2. Acceptance of Trainees (1 person)	①	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 198,301 (¥'000) Contracted 184,918		

和名 農業用貯水池復旧計画

(F/S, (M/P)+F/S, D/D)

**PROJECT SUMMARY (M/P)**

ASO LKA/A 101/87

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Gampaha district (1,600sq.km, 1.4 million population)		1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Integrated Rural Development Project for Gampaha District	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	US\$1=28Rp. in 1987		(Description)  In 1987, the Sri Lankan government selected the Model Project for Improvement of Agricultural Production which is one of the priority projects based on this master plan as the first priority project for implementation, and made request to the Japanese government for grant aid to materialize it.  Basic design was completed in January 1989, E/N in June (grant aid 996 million Yen), contract with consultant in August and contract with contractor for Phase I in January 1990. First phase construction was completed in February 1991.  The project was completed over 2 phases, with Phase II E/N concluded in June 1990 (grant aid 1.075 billion Yen), consultant contract for July 1990, and contractor contract in October 1990. Second phase construction was completed in October 1991.  As of the present, formal request has been made by the Sri Lankan government for project technical cooperation for the project.  (FY 1991 Overseas Survey) No additional information	
3. SECTOR	Agriculture/ General	(US\$1,000)	1) 22,046	512 21,534		
4. REFERENCE NO.			2) 10,710,000			
5. TYPE OF STUDY	M/P	3. MAJOR PROJECT(S) PROPOSED				
6. COUNTERPART AGENCY	Ministry of Project Planning and Implementation	5 long term and 20 short term objectives were set. 3 priority projects were selected from the short term projects for early development. Short term projects: 1. Development of Agricultural Production 2. Development of Agricultural Infrastructure 3. Development of Rural Industries 4. Development of Human Resources 5. Development of Social Infrastructure Priority projects: 1. Model Project for Improvement of Agricultural Production 2. Development of Human Resources 3. Development of Social Infrastructure				
7. OBJECTIVES OF STUDY	District-wide integrated rural development	The Cost 1) above pertains to the short-term plan, and the Cost 2) to the total of priority projects.				
8. DATE OF S/W	Apr. 1986	4. CONDITIONS AND DEVELOPMENT IMPACTS				
9. CONSULTANT(S)	Chuo Kaihatsu Corporation Hokkaido Consultants Sanyu Consultants Inc.	Implementation of the priority projects is prerequisite for later implementation of all the short term projects which will nurture a conducive socio-economic and physical infrastructure to realize the latter. Impacts of priority projects are as follows: 1. Increased production (minor export crops, general upland crops, paddy) 2. Increased farmers income 3. Social benefit (Improved diet, increased employment opportunities, upgrading of education level, improved health)				
10. STUDY TEAM	No. of Members 13 Period Jul. 1986 - Mar. 1987 (9 months)  Total M/M 54.27 Japan 23.24 Field 31.03	5. TECHNICAL TRANSFER				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		1. Training 8 (2 persons in 1986 under the master plan study, and 4 persons in 1990 and 2 persons in 1991 under detailed design and construction supervision) 2. Joint preparation of reports 3. Guidance in procurement procedures				
12. EXPENDITURE	Total 168,183 (¥'000) Contracted 146,293	3. PRINCIPAL SOURCES OF INFORMATION				
		①, ②				

和名 ガンパハ農村総合開発計画

{M/P, M/P+(F/S), Basic Study, Other}

**PROJECT SUMMARY (M/P)**

ASO LKA/A 102/89

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Kirinda Fishery Harbour Southeastern Coast Fishery population 1,408/Fishing boats 128/Yearly haul 385t			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Sand Drift in the Southeastern Coast	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	US\$1-35.32Rp in1989 Total Cost    Local Cost    Foreign Cost 1)                    14,437                    14,437 2)			
3. SECTOR	Fisheries/ Fisheries	3. MAJOR PROJECT(S) PROPOSED	Extension of Main Breakwater                    200m Improvement of Existing Main Breakwater    100m Construction of Sub-breakwater                230m Construction of Jetty                                200m			(Description) The following study on the basic design for the project for rehabilitation of the Kirinda Fisheries Harbour. (1) Economic and Social Study in the Kirinda area. a. Study of population (total population, the number of household, birthrate, mortality rate, etc.) and industries (railroad, road, allied industries, development plan, etc.). b. Investigation of regional development in case this project is executed. (2) Fishery Study To collect information of fish products, fishery circulation, fish consumption, fishing boats, etc. Economic analysis and estimation of investment effect in consideration of the above-mentioned results. (3) In consideration of effective utilization of land facilities in Kirinda Fisheries Harbour, to plan a suitable layout and countermeasure for siltation for executing this project. <1991 Overseas Survey> No additional information.
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	With conducting natural condition survey in the NE & SW monsoon season and clarifying numerical simulation for the sand drift, the following proposals were planned. (1) By constructing a Groyne at the Kirinda point, the sand drift of the SW monsoon season will be shifted onto an offshore course. (2) By extension of main breakwater, the coastal sand drift will be prevented and the tranquility within the harbour will be improved for mooring. (3) by establishing another new sub-breakwater in the north of the existing sub-breakwater, siltation will be prevented at harbour mouth.			
5. TYPE OF STUDY	M/P	5. TECHINCAL TRANSFER	-Training and study in Japan(1 person) -Guidance about using survey materials and a new method of investigation in Sri Lanka			
6. COUNTERPART AGENCY	Ceylon Fishery Harbours Corporation	10. STUDY TEAM	No. of Members    6 Period                Mar.1988 - Dec.1989 (16.5)  Total M/M            29.73 Japan                16.81 Field                12.92			
7. OBJECTIVES OF STUDY	Countermeasure for Siltation	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Sounding, Topographical survey/Observation of Meteorology and Hydrographic Conditions/Hydraulic model test			
8. DATE OF S/W	Oct.,1987	12. EXPENDITURE	Total                    224,515 (¥000) Contracted            203,563			
9. CONSULTANT(S)	Nippon Tetrapod Co.,Ltd.	2. MAJOR REASONS FOR PRESENT STATUS				
		3. PRINCIPAL SOURCES OF INFORMATION	①, ②			

和名 南東部沿岸漂砂調査

(M/P, M/P+(F/S), Basic Study, Other)

## PROJECT SUMMARY (M/P + F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Colombo Port			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Development of the Port of Colombo	2. PROJECT COSTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Transportation/ Port		(US\$1,000)	1) 257,849	42,117	215,732
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	2) 3)	Jaya Container Terminal NO.3 Jaya Container Terminal NO.4 New North Pier Pipe Laying Queen Elizabeth Quay (Rehabilitation) Dredging Computer/Communication		
5. TYPE OF STUDY	(M/P)+F/S	Implementation Period:	1989 - 1995			
6. COUNTERPART AGENCY	Sri Lanka Ports Authority	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
7. OBJECTIVES OF STUDY	F/S, M/P, & ST/P	Feasibility:	21.4%	8.7%		
8. DATE OF S/W	Mar.1988	Conditions and Development Impacts:	1. Conditions The political stability of Sri Lanka will be improved and the implementation of the project will be assured.			
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Japan Port Consultants Co.,Ltd.	2. Development impacts	- Contributing to earning of foreign currency through handling more transshipment container cargo - Activation of international trade in Sri Lanka and neighboring countries. - Promoting export processing district in suburbs of Colombo Port			
10. STUDY TEAM	No. of Members 10 Period Nov.1988 - Nov.1989 (13 months)  Total M/M 52.66 Japan 28.19 Field 24.47	5. TECHINCAL TRANSFER	On the job, Through discussion ,JICA training course			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Boring, Topographic Survey, Bathymetric Survey	2. MAJOR REASONS FOR PRESENT STATUS	The project was commenced on good timing for adapting to the change of containerization in the world			
12. EXPENDITURE	Total 175,721 (¥000) Contracted 176,480	3. PRINCIPAL SOURCES OF INFORMATION	①			

和名 コロンボ港開発計画

(F/S, (M/P)+F/S, D/D)

**PROJECT SUMMARY (M/P + F/S)**

ASO LKA/A 201A/89

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Amban Ganga and Mahaweli Gang Basins and NCRB area		
2. NAME OF STUDY	Extension of the Moragahakanda Agricultural Development Project	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	Foreign Cost
3. SECTOR	Agriculture/ General	(US\$1,000)	1) 1,352,000		
4. REFERENCE NO.		2)			
5. TYPE OF STUDY	M/P+(F/S)	3. MAJOR PROJECT(S) PROPOSED	Stage-wise agricultural land development is recommended in NCRB area.		
6. COUNTERPART AGENCY	Ministry of Land, Irrigation and Mahaweli Development	Package 1	Joint Facilities	Kalu ganga dam	
7. OBJECTIVES OF STUDY	The most effective use of available water in the Mahaweli River System and priority projects		New Irrigation Area	23,900 ha	
8. DATE OF S/W	Oct.1987		Cashew Farm	10,000 ha	
9. CONSULTANT(S)	Nippon Koei Co.,Ltd. Japan Engineering Consultants Co.,Ltd.	Package 2	Rehabilitation	25,500 ha	
10. STUDY TEAM	No. of Members 9 Period Jan.1988 - Jul.1989 (18 months)		Joint Facilities	NCP canal	
	Total M/M 51.10	Package 3	New Irrigation Area	26,600 ha	
	Japan 21.90		Rehabilitation	38,600 ha	
	Field 29.20		Joint Facilities	NCP canal	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY			New Irrigation Area	27,000 ha	
			Cashew Farm	10,000 ha	
12. EXPENDITURE	Total 220,970 (¥000) Contracted 213,902	4. CONDITIONS AND DEVELOPMENT IMPACTS	-Continued Agricultural Development for Rice Self-Sufficiency Constant development of agriculture, particularly for increased food production is essential, since the population of Sri Lanka is expected to increase as much as 1.5 times from 16.4 million in 1987 to about 24million in 2020. -Primary and secondary Benefits, and favorable socio-economic impacts of the projects. -Foreign exchange saving, increased employment opportunities, and improvement of living standard, etc.		
		5. TECHINCAL TRANSFER	Technology transfer to the counterparts in the course of the study.		
			1. PRSENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
			(Description) <FY1991 Overseas Survey> No additional information.		
			2. MAJOR REASONS FOR PRESENT STATUS		
			3. PRINCIPAL SOURCES OF INFORMATION ①, ②		

和名 モラガハカンド農業開発計画

[M/P, M/P+(F/S), Basic Study, Other]

## PROJECT SUMMARY (M/P + F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Sri Lanka	1. SITE OR AREA	Basin of Amban Ganga and Mahaweli Gang			1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Extension of the Moragahakanda Agricultural Development Project	2. PROJECT COSTS	US\$1 = 15.0Rs Total Cost      Local Cost      Foreign Cost 1)                      310,000              105,500              204,500 (US\$1,000)    2)                      3)                      3)			
3. SECTOR	Agriculture/ General	3. CONTENTS OF MAJOR PROJECT(S)	Agricultural Development (62,000ha) in the Amban Ganga basin and hydro-power generation (25MW) by constructing the Moragahakanda dam with a height of 72m. Principal feature of irrigation and drainage syarwm is as follows: - Rehabilitation of irrigation canal      60km - New Construction of irrigation canal    120km - New construction of O/M roads            150km - Downstream land development            13,900ha - Drainage canal                                      90km			(Description)  The Government of Sri Lanka may request the project on loan basis to Japanese Government.  <FY1991 Overseas Survey> No additional information.
4. REFERENCE NO.		Implementation Period:	7 years (4 years for construction)			
5. TYPE OF STUDY	(M/P)+F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
6. COUNTERPART AGENCY	Mahaweli Development Board	Feasibility:	13.0%			
7. OBJECTIVES OF STUDY	Updating of the previous Feasibility Study made in 1979	Conditions and Development Impacts:	Increasing agricultural production and creating employment opportunities in the Amban Ganga river basin.			
8. DATE OF S/W	Oct.1987	5. TECHINCAL TRANSFER	Transfer technology to counterpart inthe course of the Study.			
9. CONSULTANT(S)	Nippon Koei Co.,Ltd. Japan Engineering Consultants Co.,Ltd.	12. EXPENDITURE	Total	220,970 (¥000)		
10. STUDY TEAM	No. of Members    9 Period              Jan.1988 - May 1989 (5 months)  Total M/M            21.33 Japan                6.45 Field                 14.88		Contracted	213,902		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		2. MAJOR REASONS FOR PRESENT STATUS				
		3. PRINCIPAL SOURCES OF INFORMATION	①, ②			

和名 モラガハカンド農業開発計画

(F/S, (M/P)+F/S, D/D)

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Thailand	1. SITE OR AREA		1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Project of Strengthening and/or Replacement of Steel Bridges on the State Railway	Southern line 1,159 km 110 bridges Northern line 751 km 22 bridges Northwestern line 1,205 km 45 bridges Eastern line 255 km 37 bridges			(Description)
3. SECTOR	Transportation/ Railway	2. PROJECT COSTS (US\$1=20Bahts)			
4. REFERENCE NO.					<p>The project was completed with local finance. Since 1979, 104 bridges have been strengthened based on the study. 17 out of them were replaced by steel bridges. Furthermore, 37 are under way by the national budget between 1987 and 1991. The remaining 25 are expected to be built after 1992.</p>
5. TYPE OF STUDY	F/S	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 16,683 2) 3)			
6. COUNTERPART AGENCY	State Railway of Thailand	3. CONTENTS OF MAJOR PROJECT(S)			
7. OBJECTIVES OF STUDY	Investigation, from the aspects of design and work execution, of the existing 214 spans of steel bridges requiring strengthening and/or replacement	Of the 214 spans: 197 spans are to be repaired and strengthened. 17 spans are to be replaced with the construction of new bridges			
8. DATE OF S/W	Oct.1975	Implementation Period:			
9. CONSULTANT(S)	Japan Railway Technical Service	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR		
10. STUDY TEAM	No. of Members 17 Period Jan.1976 - Nov.1976 (10 months)  Total M/M 87.27 Japan 66.60 Field 20.67	Feasibility:  Conditions and Development Impacts: It was considered beneficial for SRT to receive a few advisors for its technical and financial needs for the initial one or two years. Improvement of the existing 214 steel bridges was recommended.			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER			
12. EXPENDITURE	Total 106,843 (¥'000) Contracted 108,230	Investigations were conducted with the cooperation of counterparts.			
				2. MAJOR REASONS FOR PRESENT STATUS	
				3. PRINCIPAL SOURCES OF INFORMATION	
				①	

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Thailand	1. SITE OR AREA	West bank tract of the Greater Chao Phraya, center of Ayutthaya Province		
2. NAME OF STUDY	Irrigated Agricultural Development Project in the West Bank Tract of the Greater Chao Phraya	2. PROJECT COSTS	US\$1=20B in 1985		
3. SECTOR	Agriculture/ General		Total Cost	Local Cost	Foreign Cost
4. REFERENCE NO.			1) 36,200	17,640	18,560
5. TYPE OF STUDY	F/S		2) (US\$1,000)		
6. COUNTERPART AGENCY	Agricultural Land Reform Office, Ministry of Agriculture and Cooperative	3. CONTENTS OF MAJOR PROJECT(S)	3)		
7. OBJECTIVES OF STUDY			Irrigation Area: 10,542 ha Circle Embankment : 114.5 km Pump station for irrigation and drainage : 3 station Main irrigation canal/secondary, tertiary canal : 36km/432km Main drainage canal/secondary, tertiary canal: 30 km/494km Main street/farm road : 177km/404km Village water supply : 4 places		
8. DATE OF S/W		Implementation Period:	Oct.1977 - Sep.1983		
9. CONSULTANT(S)	Sanyu Consultants Inc.	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	
10. STUDY TEAM	No. of Members 10 Period Oct.1976 - Jul.1977 (10 months)  Total M/M Japan Field	Feasibility: Yes	16.0%		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts:	Conditions: 1.Pilot farm of about 500ha to show intensive irrigated agriculture 2.Cultivation of double cropping of paddy (HYV) under the sufficient management of water 3.Dissemination of agricultural technology and establishment of training center 4.Establishment of farmers' organization such as maintenance management and agricultural cooperative 5.Implementation of village development plan including improvement of agricultural environment Development Impacts: Advancement of land use, Increase of agricultural production, Increase of farmers' income, Reduction of flood damage, Rise in living standards		
12. EXPENDITURE	Total 86,198 (¥000) Contracted 80,831	5. TECHINCAL TRANSFER	OJT		
		1. PRESENT STATUS		<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled	
		(Description)		1979.6.14 OECF L/A (E/S) 150 million yen 1979.6-1982.2 detail design by Sanyu Consultants Inc. 1982.7.16 OECF (ninth) L/A 2.65 billion yen construction equipment 2.02 billion yen consultation service 390 million yen money in reserve 240 million yen 1982.6 Construction started 1988.7 Yen loan expired Currently construction is in progress by ALRO.	
		2. MAJOR REASONS FOR PRESENT STATUS		A part of land for irrigation canal cannot be purchased due to rise in land price in and around Bangkok recently, and construction has not complete.	
		3. PRINCIPAL SOURCES OF INFORMATION		①	

**PROJECT SUMMARY (D/D)**

ASE THA/S 401/77

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Thailand	1. SITE OR AREA	Bangkok Metropolitan Area	1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2. NAME OF STUDY	Bangkok Telephone Network Project: Junction Lines	2. PROJECT COSTS	Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)                          2)                          3)		
3. SECTOR	Communications & Broadcasting/Telecommunication	3. CONTENTS OF MAJOR PROJECT(S)	Contents                          Scale Construction of Junction cable    250,000 Pair-km	(Description)	
4. REFERENCE NO.		Implementation Period:		Jul. 1978 OBCF loan agreement (1,464 million yen)	
5. TYPE OF STUDY	D/D	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR                          FIRR		
6. COUNTERPART AGENCY	Telephone Organization of Thailand (TOT)	Feasibility: Yes			
7. OBJECTIVES OF STUDY	D/D of junction cable network and five local cable networks	Conditions and Development Impacts:			
8. DATE OF S/W	Feb. 1977	-To full of demand in site area			
9. CONSULTANT(S)	Nippon Telecommunication Consulting Co., Ltd.	-This project come under construction of junction network for 3rd M/P Package 1, Phase 1		2. MAJOR REASONS FOR PRESENT STATUS	
10. STUDY TEAM	No. of Members    13 Period              May 1977 - Feb. 1978 (9 months)  Total M/M Japan              29.73 Field                70.77	5. TECHINCAL TRANSFER		Telephone demand in the metropolitan area is urgent.	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Many counterparts engineers participated in preparation of D/D		3. PRINCIPAL SOURCES OF INFORMATION	
12. EXPENDITURE	Total                          260,588 (¥'000) Contracted                  251,129			①	

和名 バンコク市内線路網実施設計

{F/S, (M/P)+F/S, D/D}

**PROJECT SUMMARY (F/S)**

ASE THA/S 303 /78

Compiled March 1986  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT															
1. COUNTRY	Thailand	1. SITE OR AREA	Bangkok metropolitan area	1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled														
2. NAME OF STUDY	Separate System of Metropolitan Water Supply in Bangkok	2. PROJECT COSTS	<table border="0"> <tr> <td></td> <td>Total Cost</td> <td>Local Cost</td> <td>Foreign Cost</td> </tr> <tr> <td>1)</td> <td>73,121</td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	1)	73,121			2)				3)	
	Total Cost	Local Cost	Foreign Cost																
1)	73,121																		
2)																			
3)																			
3. SECTOR	Public Utilities/ Water Supply	3. CONTENTS OF MAJOR PROJECT(S)	-Expansion of water supply area 9 districts, 171,750 cu.m/day (A.D.2000)	(Description)															
4. REFERENCE NO.		Implementation Period:		1981 - 2000	April 1979 Yen Credit (8,400 million yen) completed														
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	2. MAJOR REASONS FOR PRESENT STATUS														
6. COUNTERPART AGENCY	Metropolitan Water Works Authority	Feasibility:																	
7. OBJECTIVES OF STUDY	Water Service plan	Conditions and Development Impacts:	Implementing water source reconnaissance, planning water supply system and propose a feasible water supply expansion plan for connect the water supply system of residential area and industrial complex, which are under construction in the vicinity of Bangkok, with the existing Central Water Supply System. In the existing master plan, these areas were planned as independent system from Central Water Supply System, however, a rational system will be realized.																
8. DATE OF S/W	Jan.1977	5. TECHINCAL TRANSFER	-Overseas training for counterpart staff -Inspection of water purification plant		3. PRINCIPAL SOURCES OF INFORMATION														
9. CONSULTANT(S)	Pacific Consultants International	10. STUDY TEAM			①														
10. STUDY TEAM	No. of Members 14 Period May 1977 - Jul.1978 (15 months)  Total M/M 24.3 Japan 7.2 Field 17.1	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY																	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 143,869 (¥000) Contracted 44,780																

和名 首都圏周辺市街地区水道拡張計画

(F/S, (M/P)+F/S, D/D)

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Thailand	1. SITE OR AREA	Phetchabun - Chai Badan. Northern Region			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2. NAME OF STUDY	Phetchabun - Chai Badan Highway Project	2. PROJECT COSTS	(US\$1=20Bahts)			
3. SECTOR	Transportation/ Road		Total Cost	Local Cost	Foreign Cost	(Description) 1) D/D completed by DOH 2) OECF loan(E/N 1980 July; 8,160 million yen) 3) Construction from June 1981 to September 1983
4. REFERENCE NO.		(US\$1,000)	1) 16,600	9,400	7,200	
5. TYPE OF STUDY	F/S	2)				
6. COUNTERPART AGENCY	Department of Highway	3)				
7. OBJECTIVES OF STUDY	Road Construction	3. CONTENTS OF MAJOR PROJECT(S)	Existing Road Rehabilitation L= 130 km New Road Construction L= 21 km Total 151 km			
8. DATE OF S/W	Feb. 1978	Pavement Type:	Asphalt L= 94 km Laterite L= 57 km Total 151 km			
9. CONSULTANT(S)	Katahira & Engineers Nippon Koei Co., Ltd.	Implementation Period:	Apr. 1980 - Dec. 1982			
10. STUDY TEAM	No. of Members 12 Period Aug. 1978 - Mar. 1979 (9 months)  Total M/M 44.33 Japan 26.33 Field 18.0	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Feasibility: Yes	20.4%			
12. EXPENDITURE	Total 108,742 (¥000) Contracted 101,688	Conditions and Development Impacts: Conditions: -Future traffic demand estimates for 1983, 1989 and 1997 -Freight traffic demand based on projected agricultural production and passenger traffic demand based population projection and the trip ratio calculated from the sample survey -Standards of road based on the criteria of the Highway Department  Development Impacts of upgrading to all-weather roads: -Improvement of regional communication -Saving of transportation cost and increase of farmers' income -Development of better transportation network and reduction of running costs				
		5. TECHINCAL TRANSFER	(1) OJB (2) JICA training (3) Joint reporting			
			2. MAJOR REASONS FOR PRESENT STATUS (1) Big Development effects (2) Favorable financial status (3) High priority (4) Strong promotion by department of Highway			
			3. PRINCIPAL SOURCES OF INFORMATION (1)(2)			

和名 ペチャブン~チャイバダン道路建設計画

{F/S, (M/P)+F/S, D/D}

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Thailand	1. SITE OR AREA	Each place of the country			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2. NAME OF STUDY	Rural Long Distance Public Telephone Service	2. PROJECT COSTS	(US\$1=180Yen)			
3. SECTOR	Communications & Broadcasting/ Telecommunication		Total Cost	Local Cost	Foreign Cost	(Description)  Sep. 1984 OECF loan agreement (3,090 million yen) Dec. 1986 Contract on construction Sep. 1999 Construction completed
4. REFERENCE NO.		(US\$1,000)	1) 385,008	54,618	330,390	
5. TYPE OF STUDY	F/S		2)			
6. COUNTERPART AGENCY	Telephone Organization of Thailand		3)			
7. OBJECTIVES OF STUDY	To recommend the optimum transmission system to TOT.	3. CONTENTS OF MAJOR PROJECT(S)	Objectives The construction of long distance telephone circuits, including public telephones, in major rural districts without telephones for the purpose of improving the telephone service in 469 rural areas. Transmission route * Two terrestrial radio system * Domestic satellite system			
8. DATE OF S/W	Jul. 1978	Implementation Period:	1981 - 1982			
9. CONSULTANT(S)	Nippon Telecommunication Consulting Co., Ltd.	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
10. STUDY TEAM	No. of Members 6 Period Aug. 1978 - Mar. 1979 (8 months)  Total M/M Japan Field 27.03	Feasibility: Yes	11.3%	18.22%		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts: Conditions: Alternative Plan 2 terrestrial radio systems and 1 Domestic Satellite System	Impacts: Public Telecommunication Services for 469 sites with not telephone become available			
12. EXPENDITURE	Total 75,078 (¥000) Contracted 79,180	5. TECHINCAL TRANSFER	(1) Trainee acceptance; 2 engineer(TOT) invited to Japan (2) On the Job Training(TOT counterparts)			
		2. MAJOR REASONS FOR PRESENT STATUS			High priority: The project was realized by the strong request from the King.	
		3. PRINCIPAL SOURCES OF INFORMATION			①	

## PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Thailand	1. SITE OR AREA	Pattaya, Ko lan Island			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Pattaya Tourism Development	2. PROJECT COSTS	(US\$1=20Bahts) Total Cost Local Cost Foreign Cost 1) 368,000 193,000 (US\$1,000) 2) 3)			
3. SECTOR	Tourism/ General	3. CONTENTS OF MAJOR PROJECT(S)	-Infrastructure -Water supply and sewerage -Water drainage system -Solid waste management -Road, power, communication -Port			(Description) The project is under construction with local finance.
4. REFERENCE NO.		Implementation Period:	1977 - 1996			
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
6. COUNTERPART AGENCY	Dept. of Tourism	Feasibility:	No			
7. OBJECTIVES OF STUDY	Establishment plan of infrastructure for tourism	Conditions and Development Impacts:	Private investment has been made in tourism industry while public sector has not invested; therefore, inappropriate development continues and tourism resource has not been utilized. This project aims to utilize this resource and contribute to tourism development.			
8. DATE OF S/W	Nov. 1976	5. TECHNICAL TRANSFER	Overseas training for 6 trainees			
9. CONSULTANT(S)	Pacific Consultants International. Nippon Tetrapod Co., Ltd.	12. EXPENDITURE	Total 335,524 (¥'000)		2. MAJOR REASONS FOR PRESENT STATUS	
10. STUDY TEAM	No. of Members 12 Period Dec. 1976 - Dec. 1977 (12 months)  Total M/M 118.13 Japan 88.73 Field 29.4		Contracted 206,380		-Good financial condition -High priority	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					3. PRINCIPAL SOURCES OF INFORMATION	
					①	

PROJECT SUMMARY (M/P)

Compiled March 1986  
Revised March 1992

ASE THA/S 101/79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS			
1. COUNTRY	Thailand	1. SITE OR AREA	Bangkok Metropolitan Area	1. PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
2. NAME OF STUDY	Bangkok Suburban Transportation Project	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=260Yen) Total Cost    Local Cost    Foreign Cost	(Description)			
3. SECTOR	Transportation/ Railway	(US\$1,000)    1)    834,400 2)					
4. REFERENCE NO.		3. MAJOR PROJECT(S) PROPOSED	Formulation of Master Plan for large scale transportation for Bangkok and its surrounding areas. Basic policy is to make the utmost use of existing railway system as the transportation means for people commuting to work.	Projects proposed by the study are not included in the Sixth National Development Plan. No progress has been made in upgrading the railway service in downtown Bangkok.			
5. TYPE OF STUDY	M/P		Main components are: Suburban lines(new construction) 6 lines(11 segments) total length 102.8km Improvement of existing lines (double track,new stations, signal and communication) total length 151 km Rolling stock(Year 2000) Suburban line 756 or 478 (depending on fare) Existing national railway 318				
6. COUNTERPART AGENCY	Expressway and Rapid Transit Authority (ETA), Royal State Railway of Thailand (SRT)						
7. OBJECTIVES OF STUDY	Transportation Plan						
8. DATE OF S/W	Jul.1978	4. CONDITIONS AND DEVELOPMENT IMPACTS	Beneficial effect: alleviation of traffic congestion in downtown and surrounding areas				
9. CONSULTANT(S)	Pacific Consultants International						
10. STUDY TEAM	No. of Members 7 Period Oct.1978 - Aug.1979 (11 months)  Total M/M 46.57 Japan 35.5 Field 11.07						
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHINCAL TRANSFER	Training in Japan				
12. EXPENDITURE	Total 90,378 (¥000) Contracted 85,377					2. MAJOR REASONS FOR PRESENT STATUS	This project is an extension from downtown to suburban areas. Therefore, F/S is unlikely to be conducted unless progress is made on projects for the downtown area.
						3. PRINCIPAL SOURCES OF INFORMATION	①

和名 首都圏交通計画

{M/P, M/P+(F/S), Basic Study, Other}

**PROJECT SUMMARY (M/P)**

ASE THA/A 101/79

Compiled March 1990  
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Thailand	1. SITE OR AREA	Mid and down stream of Mae Klong River Basin : area 490,000ha			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	(Irrigated Agricultural Development in the Greater Mae Klong River)	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	Foreign Cost		
3. SECTOR	Agriculture/ General	(US\$1,000)	1) 441,300	264,780	176,520	(Description)  F/S Kamphaeng Saen irrigated of agriculture development was conducted chosen from regions where master plan was done, however it wasn't realized.	
4. REFERENCE NO.		2) 258,399	161,180	114,120			
5. TYPE OF STUDY	M/P	3. MAJOR PROJECT(S) PROPOSED					
6. COUNTERPART AGENCY	Ministry of Agriculture and Cooperatives	1.Short-term development plan 1) Improvement of field of 185,900ha 2) Repair of irrigation and drainage canals of 1,082km 2.Long-term development plan 1) Improvement of field of 174,200ha 2) Repair of irrigation and drainage canals of 56km 3) Construction of irrigation and drainage canals of 345 km					
7. OBJECTIVES OF STUDY		4. CONDITIONS AND DEVELOPMENT IMPACTS					
8. DATE OF S/W	Jul.1977	1.The production of rice will be 1.7 times in 30 years (total amount 2,400,000t) 2.The production of Sugarcane will be 1.3 times in 30 years (total amount 1,400,000t) *Of 2,400,000t of rice production, 1,000,000t will be possible to be exported. 3.EIRR 26.5%					
9. CONSULTANT(S)	Sanyu Consultants Inc.	5. TECHINCAL TRANSFER					
10. STUDY TEAM	No. of Members 20 Period Dec.1977 - Mar.1980 (28 months)  Total M/M 130.19 Japan 45.83 Field 84.36	3. PRINCIPAL SOURCES OF INFORMATION					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		①					
12. EXPENDITURE	Total 346,684 (¥000) Contracted 242,550	2. MAJOR REASONS FOR PRESENT STATUS					
		Failure to be implemented was due to the change in Thai Government's agricultural policy. That is, it has the view that it is necessary to develop the areas that need basic facilities with priority to the areas whose basic facilities have already been complete.					

和名 メクロン川マスタープラン

[M/P, M/P+(F/S), Basic Study, Other]