

# PROJECT SUMMARY (F/S)

ASE PHL/S 322/89

Compiled Mar.1991  
Revised Mar.1993

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)																										
2.NAME OF STUDY	Rehabilitation and Maintenance of Bridges along Arterial Roads	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>43,101</td> <td>13,982</td> <td>29,119</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	43,101	13,982	29,119																
	Total Cost	Local Cost	Foreign Cost																										
(US\$1,000)	43,101	13,982	29,119																										
3.SECTOR	Transportation/Road	3.CONTENT(S) OF MAJOR PROJECT(S)	<p>52 bridges are selected among 99 bridges, taking the technical conditions and socio-economic circumstances into consideration.</p> <p>1. Reconstruction 12 2. Replacement of Superstructure 15 3. Repair 25 total 52 Brs.</p> <p>The bridge type and length are as follows:</p> <table border="1"> <thead> <tr> <th>Bridge Type</th> <th>Unit</th> <th>length(m)</th> </tr> </thead> <tbody> <tr> <td>Steel Bridge</td> <td>Truss</td> <td>10 3,220</td> </tr> <tr> <td></td> <td>SIB</td> <td>13 1,088</td> </tr> <tr> <td></td> <td>Steel box</td> <td>1 177</td> </tr> <tr> <td>Concrete Bridge</td> <td>RCDG</td> <td>13 300</td> </tr> <tr> <td></td> <td>PCDG</td> <td>11 1,291</td> </tr> <tr> <td></td> <td>Concrete Slab</td> <td>4 77</td> </tr> <tr> <td>Total</td> <td>52</td> <td>6,153</td> </tr> </tbody> </table>			Bridge Type	Unit	length(m)	Steel Bridge	Truss	10 3,220		SIB	13 1,088		Steel box	1 177	Concrete Bridge	RCDG	13 300		PCDG	11 1,291		Concrete Slab	4 77	Total	52	6,153
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4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>55.69</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </tbody> </table>			Feasibility:	EIRR1)	55.69	FIRR1)	Yes	EIRR2)		FIRR2)		EIRR3)		FIRR3)												
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Yes	EIRR2)		FIRR2)																										
	EIRR3)		FIRR3)																										
5.TYPE OF STUDY	F/S	<p>Conditions and Development Impacts:</p> <p>Conditions</p> <ul style="list-style-type: none"> <li>- Traffic forecast is based on review of the survey results carried out by DPWH in 1986.</li> <li>- Design criteria such as design line loads and structural specification are in accordance with NSCP.</li> </ul> <p>Development Impacts</p> <ul style="list-style-type: none"> <li>- Prevent the existing bridge from river flood damage</li> <li>- Improve functioning and durability of bridge, then prevent bridge collapse</li> <li>- Maintain traffic network</li> <li>- Establish systematic organization</li> </ul>																											
6.COUNTERPART AGENCY	Department of Public Works and Highways (DPWH)	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>A number of major bridge have been obsolete and structurally weak for increasing traffic volume and heavier loads. GOP has given high priority to their rehabilitation to ensure transport efficiency and protect the investments already made.</p>																											
7.OBJECTIVES OF STUDY	Bridge Rehabilitation program Bridge Data Base Bridge Inspection and Maintenance	<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①③④</p>																											
8.DATE OF S/W	Apr.1987	<p>Imp. Period: Dec.1990-Dec.1995</p>																											
9.CONSULTANT(S)	Nihon Koei Co., Ltd. ALMEC Corporation	<p>5.technical transfer</p> <p>1.Trainee, Mr.Matanguihan Edwin Cueros, 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.</p>																											
10.STUDY TEAM	<p>No.of Members 9</p> <p>Period Nov.1987-Jun.1989(19.5 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>68.08</td> <td>20.62</td> <td>47.46</td> </tr> </tbody> </table>	Total M/M	Japan	Field	68.08	20.62	47.46																						
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68.08	20.62	47.46																											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>1.Topographic Survey,1988</p> <p>2.Geotechnical Survey,1988 3.Scaffolding, 1988</p>																												
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>214,117 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>208,344</td> </tr> </tbody> </table>		214,117 (¥'000)	Total		Contracted	208,344																						
	214,117 (¥'000)																												
Total																													
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)

ASE PHL/A 106/90

Compiled Mar. 1992  
Revised Mar. 1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS						
1. COUNTRY	Philippines	1. SITE OR 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	Improvement of Communal Irrigation Systems through Physical and Institutional Development and Rural Development in Southern Tarlac Province	2. PROJECT COST	Total Cost (US\$1,000)	(Description) In June 1990, when M/P and F/S were completed and priority components were being prepared for implementation, the eruption of Mt. Pinatubo buried the rivers and neighboring areas were covered by ashes to a depth of 10 - 20cm.  (FY1991 Overseas Survey) The Study Area was affected by the eruption, and Banban River as the major source of water for irrigation was buried under the debris. The NIA is keen to construct the groundwater collection conduits, and hoping for a re-study by JICA. JICA is preparing an assistance project for the restoration of the eruption-affected areas, but with emphasis on potable water supply facilities rather than irrigation development.						
3. SECTOR	Agriculture/General		Local Cost Foreign Cost							
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)								
5. TYPE OF STUDY	M/P	1) Agricultural Infrastructure Improvement a) Irrigation Facilities Improvement Canals 37km, Diversion Dam Improvement 10 units, Groundwater Collecting Conduits 4 units, Shallow Wells 271 units b) Drainage Development 4km 2) Farm Road Improvement Barangay Roads 53km, Farm-to-Market Roads 58km 3) Agricultural Development Farming Technology Demonstration Farm : 11 farms Seed Multiplication Station : 1 station 4) Institutional Development (farmers' organizations) Supports for Strengthening IAs Supports for MFIsAs, FIAs and CISs								
6. COUNTERPART AGENCY	National Irrigation Administration	4. CONDITIONS AND DEVELOPMENT IMPACTS		2. MAJOR REASONS FOR PRESENT STATUS						
7. OBJECTIVES OF STUDY	Master Plan Study on Improvement of Communal Irrigation Systems	- The rivers in the Study Area have no watershed management and erosion control. - Annual rainfall in the Study Area is 1,900mm and the precipitation is mostly concentrated in the wet season. - Inundation occurs often in the flat areas, particularly in the Eastern-most area along Chico River. - By introducing water collecting conduits and pumps for shallow wells, the cropping intensity of 172% can be realized over 9,800ha of farm land. - By establishing post-harvest facilities for paddy, the prevailing loss ratio of 16.5% could be reduced to 10.5% only. - The improvement of farm roads will reduce transportation costs. - IRR is calculated at 18%.								
8. DATE OF S/W	Feb. 1989	5. TECHNICAL TRANSFER		3. PRINCIPAL SOURCE OF INFORMATION						
9. CONSULTANT(S)	Sanyu Consultants Inc. Nippon Giken Inc.									
10. STUDY TEAM	No. of Members 10 Period Aug. 1989-Aug. 1990 (13 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>50.90</td> <td>23.75</td> <td>27.15</td> </tr> </tbody> </table>	Total M/M	Japan	Field	50.90	23.75	27.15			
Total M/M	Japan	Field								
50.90	23.75	27.15								
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	* Inventory : 397 (¥1,000) * Field survey : 2,239 (¥1,000) * Construction of									
12. EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>156,075 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>142,164</td> </tr> </tbody> </table>		156,075 (¥'000)	Total		Contracted	142,164	Through the field survey, transfer was achieved especially on the survey investigation and planning method for project formulation.	①②	
	156,075 (¥'000)									
Total										
Contracted	142,164									

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)

Compiled Mar.1992  
Revised Mar.1993

ASE PHL/S 323/90

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="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Rural Road Network Development Project (II)	73 provinces in Philippines (F/S was conducted as pilot study in 4 provinces)			
3.SECTOR	Transportation/Road	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost
4.REFERENCE NO.		(US\$1,000)	1) 147,295		
5.TYPE OF STUDY	F/S		2) 110,902		
6.COUNTERPART AGENCY	Department of Public Works and Highways (DPWH)	3.CONTENT(S) OF MAJOR PROJECT(S)			
7.OBJECTIVES OF STUDY	Conduct a F/S on the development of a rural road network	In order to improve on the findings of the phase 1 study on rural road network, the present phase 2 study selected 11 provinces and identified the basic road network plan and analyzed the feasibility of the proposed major and minor roads. Those road sections with IRRs of more than 15% are recommended for earlier implementation, and the rest for later implementation.			
8.DATE OF S/W	Apr.1989	1) First Stage Major Roads 714.0km Minor Roads 1,130.8km			
9.CONSULTANT(S)	Katahira & Engineers International Nippon Engineering Consultants Co., Ltd.	2) Second Stage 533.0km 924.6km			
10.STUDY TEAM	No. of Members 10 Period Oct.1989-Oct.1990 (13 months)	Imp. Period: .1991-.1995			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Socioeconomic survey Traffic counts survey Road inventory survey	4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)			
12.EXPENDITURE	Total 277,593 (¥'000) Contracted 289,000	Conditions and Development Impacts: Conditions: The benefits taken into account were the traffic benefit, the agricultural development benefit, and road maintenance cost savings, Project life is 25 years, (from 1993 to 2017). The development impacts: 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.			
		5.technical transfer			
		1. Accepting of counterpart trainees 2. Utilization of local consultants			
		2.MAJOR REASONS FOR PRESENT STATUS			
		3.PRINCIPAL SOURCE OF INFORMATION	①③		

和名 地方道路網整備計画 (II)

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

# PROJECT SUMMARY (F/S)

ASE PHL/A 315/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Philippines	1.SITE OR AREA	Jala Jala Municipality (4,930ha) of Rizal Province, located 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 COST (US\$1,000)	1) 27,400 2) 3)	Total Cost Local Cost Foreign Cost 6,400	
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	The Study prepared a development plan to support farmers who had been included in the land reform in Jala Jala Municipality. The plan objectives were early creation of self-reliant farmers, increase in labor productivity and reduction of disparities, and achievement of local food self-sufficiency. 1. Intensive Agriculture: 11 villages, 3,800ha 2. Farm Mechanization: tractors, threshers, power sprayers, rice mills 3. Irrigation: 13 systems (paddy 950ha, upland crops 210ha) 4. Drainage: main canals 11.2km, branch canals 39.3km, culverts 70 locations 5. Roads: trunk roads 18.1km, feeder roads 46km, farm roads 9.6km 6. Rural Electrification: power transmission line (3-phase)23km, distribution line 8.6km 7. Rural Water Supply: 16 level-I deep wells, 4 level-II deep wells, 2 springs 8. Rural Development Center: facilities for farmer training, extension services on agriculture and home economics		(Description) The project cost estimated by the JICA study exceeded the cost ceiling for the Japanese grant aid program. Subsequently, GOP prioritized project components for the grant approval.  Oct.1991-Mar.1992 Basic design study completed Oct.1992 E/N signed (39.32 million yen) Oct.-Nov.1992 D/D completed (Final total project cost 1,137 million yen) Mar.1993-Mar.1994 Construction scheduled
4.REFERENCE NO.		7.OBJECTIVES OF STUDY	To formulate an integrated rural development project		
5.TYPE OF STUDY	F/S	8.DATE OF S/W	Apr.1989		
6.COUNTERPART AGENCY	Department of Agrarian Reform	9.CONSULTANT(S)	Nihon Koei Co., Ltd. Chuo Kaihatsu Cor.		
10.STUDY TEAM	No.of Members 9 Period Sep.1989-Sep.1990(13 months)	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1 14.40 EIRR2 EIRR3	2.MAJOR REASONS FOR PRESENT STATUS
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	- Farm economy survey - Topographic survey - Geo-hydrological investigation	Conditions and Development Impacts: Conditions: 1. Diversification (upland crops 260ha, small plantations 850ha, fruits 600ha) and intensification (paddy double cropping 950ha) over the area of 2,690 ha 2. Consolidation of communal systems and concentrated development of 8 village-wise irrigation systems (650ha) to enable year-round irrigation Major Development Impacts: 1. Four-fold increase in paddy output (production 6,000 tons, local consumption 3,000 tons, and a surplus of 3,000 tons in the year 2000) 2. Fruits (citrus 3,850 tons, mango 2,100 tons) will be used as materials for local agro-industries or marketed in Manila as fresh fruits. 3. Production of beef and pork will be doubled partly utilizing agricultural residues as animal feeds. 4. Total benefits of the project after deducting the "without project" benefits come to 143.1 billion pesos (18.4 from paddy, 13.9 from upland crops, 4.1 from fruits, 4.4 from livestock and the remainder from infrastructural development). 5. Increases of annual farming household income will range from 6 to 33.8 million pesos (three- to ten-fold increases).			
12.EXPENDITURE	Total 188,616 (¥'000) Contracted 145,459	5.technical transfer	Technology transfer counterparts in the course of the study.		3.PRINCIPAL SOURCE OF INFORMATION
					①②

和名 ハラハラ農業開発計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/A 316/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	Philippines	1.SITE OR AREA	Philippines														
2.NAME OF STUDY	Improvement of Seed Production and Distribution, and Establishment of Appropriate Seed Storage System	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>12,479</td> <td>3,049</td> <td>9,430</td> </tr> <tr> <td>US\$1=27.5peso</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	12,479	3,049	9,430	US\$1=27.5peso			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	12,479	3,049	9,430														
US\$1=27.5peso																	
3.SECTOR	Agriculture/General	3.CONTENT(S) OF MAJOR PROJECT(S)	<p>The Study formulated model seed production and distribution projects for the selected areas of Region II (peanut), Region VI (Paddy) and Region XI (maize). In addition to the model projects, it will be necessary to establish an urgent improvement plan by examining the degrees of urgency and the impacts of individual project implementation.</p> <p>1) Region II (Project cost: 86,682,000 pesos) - Ilagan E.S. irrigation system development - Seed processing machinery and facilities - Laboratory and storage</p> <p>2) Region VI (Project cost: 136,291,000 pesos) - Seed processing machinery and facilities - Laboratory and storage</p> <p>3) Region XI (Project cost: 120,195,000 pesos) - Davao NCC irrigation system development - Improvement of on-farm roads and farm roads - Seed processing machinery and facilities - Laboratory and storage</p>														
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>3.30</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td>32.80</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>25.30</td> <td>FIRR3)</td> </tr> </tbody> </table>			Feasibility:	EIRR1)	3.30	FIRR1)	Yes	EIRR2)	32.80	FIRR2)		EIRR3)	25.30	FIRR3)
Feasibility:	EIRR1)	3.30	FIRR1)														
Yes	EIRR2)	32.80	FIRR2)														
	EIRR3)	25.30	FIRR3)														
5.TYPE OF STUDY	F/S	<p>Conditions and Development Impacts:</p> <p>Conditions:</p> <ul style="list-style-type: none"> <li>- Period of economic evaluation is set at 20 years, based on the life period of facilities.</li> <li>- Economic costs of tradable goods are converted from the financial costs, using conversion factors by sector.</li> <li>- Economic costs of non-tradable goods are obtained by the conversion factor of 0.8.</li> <li>- Labor costs are obtained from consumption by the conversion factor of 0.65.</li> </ul> <p>Development Impacts:</p> <ul style="list-style-type: none"> <li>- The establishment of the seed production and distribution systems will ensure increased supply of certified seeds.</li> <li>- Surplus seeds will be supplied to outside regions, and the buffer stock of seeds could be distributed in emergencies.</li> <li>- Increased supply of quality seeds will raise the production of crops, which in turn will stimulate the growth of agro-industrial production and employment.</li> </ul>															
6.COUNTERPART AGENCY	Department of Agriculture	2.MAJOR REASONS FOR PRESENT STATUS															
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.	3.PRINCIPAL SOURCE OF INFORMATION															
8.DATE OF S/W	Feb.1989	①②															
9.CONSULTANT(S)	Nihon Koel Co., Ltd. System Science Consultants																
10.STUDY TEAM	<p>No.of Members 8</p> <p>Period Nov.1989-Dec.1990 (11 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>46.81</td> <td>18.00</td> <td>28.81</td> </tr> </tbody> </table>	Total M/M	Japan	Field	46.81	18.00	28.81										
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46.81	18.00	28.81															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																	
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>140,815 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>141,332</td> </tr> </tbody> </table>		140,815 (¥'000)	Total		Contracted	141,332	<p>2-day seminar with 45 participants</p> <p>2 weeks field observation and study tour.</p>									
	140,815 (¥'000)																
Total																	
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 (M/P)

ASE PHL/S 109/91

Compiled Mar.1993  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Philippines	1.SITE OR AREA	Philippines, Luzon Island, 5 provinces (Cavite, Batangas, Rizal, Laguna, and Quezon)		
2.NAME OF STUDY	Calabarzon Intergrated Regional Development	2.PROJECT COST	<div> <div>(US\$1,000)</div> <div>1)</div> <div>2)</div> </div> <div>Total Cost    Local Cost    Foreign Cost</div>		
3.SECTOR	Development Plan/Integrated Regional Development Plan	3.CONTENTS OF MAJOR PROJECT(S)	<div> <div>- 3 projects of port development including Greater Capital Region Pot Study</div> <div>- 6 projects of roads and highways including Cavite Coastal Road</div> <div>- 6 projects of industrial support including Cavite EPZA</div> <div>- 5 projects of urban development including Laguna West Urban Development</div> <div>- 2 projects of agriculture including Batangas East Agriculture Development</div> <div>- 5 projects of rural development including Laguna Upland IRD Projects</div> <div>- 3 projects of social development including Southern Tagalog Manpower Training and Employment Program</div> <div>- 2 projects of environmental management including Marikina Watershed Development and Management</div> </div>		
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	<div>Development Impacts:</div> <div>- To enhance the income level in rural areas by creating employment opportunities in primary agriculture, agro-processing and service activities as well as by increasing productivity in agriculture.</div> <div>- To sustain high level of growth on the balance between agriculture and industry by promoting complementary linkages between the two major sectors, improving the industrial structure, and including related service activities.</div> <div>- To contribute to more equitable development, not generating the urban poor and squatters, uplifting the rural people from poverty, and realizing better spatial distribution of population and economic activities.</div> <div>- To create a better human environment and enhance social capacity for development by protecting/enhancing natural environment, improving the provision of physical infrastructure and social services, and incorporating socio-cultural values in project planning and implementation.</div>		
5.TYPE OF STUDY	M/P	5.technical transfer	<div>The planning capability of the Philippine counterparts had been strengthened during this study through dissemination of information and involvement of the people of Philippines.</div>		
6.COUNTERPART AGENCY	Department of Trade and Industry (DTI)	6.PRINCIPAL SOURCE OF INFORMATION	①		
7.OBJECTIVES OF STUDY	To formulate the M/P of flood control for the Ilong-Ilabangan River Basin and to identify priority projects	7.PRINCIPAL SOURCE OF INFORMATION	①		
8.DATE OF S/W	.0	8.PRINCIPAL SOURCE OF INFORMATION	①		
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Pacific Consultants International	9.PRINCIPAL SOURCE OF INFORMATION	①		
10.STUDY TEAM	<div>No.of Members    12</div> <div>Period    Mar.1990-Sep.1991(18 months)</div> <div> <div>Total M/M</div> <div>126.90</div> </div> <div> <div>Japan</div> <div>39.30</div> </div> <div> <div>Field</div> <div>87.60</div> </div>	10.PRINCIPAL SOURCE OF INFORMATION	①		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Aerophotographing River Survey, Construction of Hydrological Gauging Stations Geologic Survey and Boring Survey.	11.PRINCIPAL SOURCE OF INFORMATION	①		
12.EXPENDITURE	<div>Total    427,347 (¥'000)</div> <div>Contracted    386,362</div>	12.PRINCIPAL SOURCE OF INFORMATION	①		

和名 カラバールソン地域総合開発計画

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

## PROJECT SUMMARY (M/P)

Compiled Mar. 1993  
Revised

ASE PHL/S 110/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Philippines	1.SITE OR AREA	Ilog-Hilabangan River Basin of 2,162 sq.km in Negros Island	1.PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Ilog-Hilabangan River Basin Flood Control Project	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    44,750 2)	(Description)							
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTES OF MAJOR PROJECT(S)	The Ilog-Hilabangan River Basin which have 2,162 sq.km of the drainage area suffers from the flood damage in the flood prone area covering about 125sq.km. Master plan was formulated in the manner of river improvement to prevent the flood damage in the flood prone area. In parallel with the study on flood control project the potential study on water resources development was examined. However, the suitable dam site for water resources development could not be found out, so that this was not included in the study. This river improvement plan for the river stretch of about 21.5 km in total includes provision of revetment and sluice and replacement of bridges. The project scale of 100 year return period is applied for the master Plan. The design discharge is 3,450 cu.m/s.								
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	Master plan was prepared setting the target completion year of 2020 and it is assumed that population in the flood prone area will increase in accordance with the past increasing rate. After completion of M/P, the flood prone area of about 125 sq.km will be released from the flood damage up to the flood discharge of a 100-year return period. The annual average benefit is expected to be 126.6 million Pesos after the year of 2020.								
5.TYPE OF STUDY	M/P										
6.COUNTERPART AGENCY	Department of Public Works and Highways (DPWH)										
7.OBJECTIVES OF STUDY	To formulate the M/P of flood control for the Ilog-Hilabangan River Basin and to identify priority Projects.										
8.DATE OF S/W	Nov.1989										
9.CONSULTANT(S)	CTI Engineering Co., Ltd. INA Civic Engineering Consultants Co., Ltd. Pasco International Inc.										
10.STUDY TEAM	No.of Members    15 Period   Feb.1990-Jun.1991(17 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>61.27</td> <td>23.74</td> <td>37.53</td> </tr> </tbody> </table>	Total M/M	Japan	Field	61.27	23.74	37.53				
Total M/M	Japan	Field									
61.27	23.74	37.53									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Aerophotographing River Survey Construction of Hydrological Gauging Stations geologic Survey and Boring Survey										
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>398,765 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>368,216</td> </tr> </tbody> </table>	Total	398,765 (¥'000)	Contracted	368,216	5. TECHNICAL TRANSFER	① - Periodical lecture meeting and on-the-job training for counterparts. - JICA counterpart training course in Japan.				
Total	398,765 (¥'000)										
Contracted	368,216										
		2.MAJOR REASONS FOR PRESENT STATUS									
		Security problems due to NPA's activities in the Negros Island where the project site is located.									
		3.PRINCIPAL SOURCE OF INFORMATION									

和名 イログ・ヒラバンガン川流域治水計画

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

# PROJECT SUMMARY (M/P)

Compiled Mar.1993  
Revised

ASE PHL/A 107/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Philippines	1.SITE OR AREA	Entire 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-scale Irrigation Development Project (SSIDP)	2.PROJECT COST	(US\$1,000)      Total Cost      Local Cost      Foreign Cost 1)      35,546 2)      3,563	(Description) The 10-year Development Plan is considered one of the references for communal irrigation development and utilized by the National Irrigation Administration for annual planning and external assistance negotiations. However, the actual implementation has been slow, owing to the nation-wide financial constraints and the on-going reform which decentralizes the project implementation from the central to the provincial governments.							
3.SECTOR	Agriculture/General	3.CONTENT OF MAJOR PROJECT(S)									
4.REFERENCE NO.		The Study formulated a 10-year Development Plan which covers 4,037 new or rehabilitation subprojects each ranging from 50ha to 500ha (total area of 570,517ha). The Study selected 459 priority subprojects (total area of 70,813ha) as Group A subprojects.									
5.TYPE OF STUDY	M/P	1) 10-year Development Plan : Project Cost 1) above ('000 pesos) Costs of F/S, D/D & Construction      926,290 Costs of Institutional Development      51,236 Total      977,526 2) Group A Subprojects : Project Cost 2) above Cost of F/S, D/D & Construction      74,836 Cost of Institutional Development      23,164 Total      98,000									
6.COUNTERPART AGENCY	National Irrigation Administration (NIA)	4.CONDITIONS AND DEVELOPMENT IMPACTS		2.MAJOR REASONS FOR PRESENT STATUS							
7.OBJECTIVES OF STUDY	To formulate a master plan for the SSIDP, aiming at orderly utilization of nation's water and land resources.	Impacts of the 10-year Plan: 1) The implementation will increase 1.53 million tons of paddy, contributing to the achievement of 100% rice self-sufficiency. 2) The plan will create 68 million man days of employment for construction, and 97 million man days of agricultural employment after the construction. 3) Foreign exchange savings 4) The implementation will stimulate economic activities throughout the country. 5) Group A subprojects are located in the economically depressed rural areas, and their implementation will alleviate poverty problems. 6) The implementation will promote the participation of small farmers in the development process and improve their operation and maintenance capability.									
8.DATE OF S/W	Feb.1990										
9.CONSULTANT(S)	Nihon Koei Co., Ltd.										
10.STUDY TEAM	No.of Members      10 Period      Jul.1990-Feb.1992 (19 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>64.23</td> <td>19.30</td> <td>44.93</td> </tr> </tbody> </table>	Total M/M	Japan	Field	64.23	19.30	44.93	5. TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION	
Total M/M	Japan	Field									
64.23	19.30	44.93									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		1. Weekly meetings on the method of master plan formulation. 2. Seminars on database compilation and operation.		①							
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>201,013 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>191,340</td> </tr> </tbody> </table>		201,013 (¥'000)	Total		Contracted	191,340				
	201,013 (¥'000)										
Total											
Contracted	191,340										

和名 小規模灌漑施設整備計画

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



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

Compiled Mar.1993  
Revised

ASE PHL/S 207A/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS																	
1.COUNTRY	Philippines	1.SITE OR AREA	Three river systems and their alluvial plain the Pangasinan Plain in the western part of Central Luzon, which drainage area totals 7,640sq.km, broken down into 5,907 sq.km for the Agno River Basin, 1,115sq.km for the Pantar-Sinocalan River Basin and		1.PRESENT STATUS																
2.NAME OF STUDY	Agno River Basin Flood Control	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1)</td> <td>1,070,516</td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td>16,255</td> <td></td> <td></td> </tr> </tbody> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)				1)	1,070,516			2)	16,255			<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
	Total Cost	Local Cost	Foreign Cost																		
(US\$1,000)																					
1)	1,070,516																				
2)	16,255																				
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENT OF MAJOR PROJECT(S)	1) Framework Plan: 1. River improvements(stretch of 146.4 km), the Poponto floodway and natural retarding basin, and the Moriones-O'Donnell dam for the Agno River and its tributary the Tarlac River 2. River improvements for the four Agno River tributaries, Camiling, Banila, Viray-Dipalo and Ambayaoan. 3. River improvements and the Binalonan floodway. 4. Flood Forecasting and Warning System(FFWS) including the up-grade of existing ABC (the Agono, Bicoland and Cagayan Rivers). 5. Debris Barrier Plan of construction of 34 dams including the San Roque Dam and the Moriones-O'Donnell Dam.  2) Long-term Plan: 1. All the Framework Plan projects proposed excluding the Moriones-O'Donnell Dam and Binalonan floodway. 2. Among the FFWS Long-term Plan, the improvement of the flood forecasting accuracy of the forecasting points in the existing Agno River FFWS and effective carrying out of flood warning activity in the Study project areas.		(Description)																
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS																			
5.TYPE OF STUDY	M/P+(F/S)	Costs of proposed plan are calculated at June 1989 price level. 1) Framework Plan: 1. Defined as an ideal portrait of flood control plan which is to be achieved in the unspecified future. 2. The flood control target is set at a 100-year probable flood for the Main Agno River and the Tarlac River and at a 50-year probable flood for the other tributaries of Agno and the Allied Rivers. 3. The flood control effect of the San Roque Dam, which design is completed, is taken into account in the plan. 4. The Long-term Debris Barrier Plan is formulated assuming that the sediment control plan will be proceeded in the future, fifty percent of the sediment yield in the mountainous areas will be mitigated by afforestation/reforestation and sediment due to mine tailings, land slide and soil erosion due to road construction will be totally controlled.  2) Long-term Plan: 1. Defined as an stage development plan of the Framework Plan, the completion target year of which is set at the year 2020(30 year-long-term plan). 2. The flood control target is set at a feasible scale during a project life of 50 years starting construction from 1995. 3. The flood control scale is set at a 25-year probable flood for the Agno River and its tributaries and a 10-year probable flood for the allied rivers.																			
6.COUNTERPART AGENCY	Department of Public Works and Highways (DPWH)	5.TECHNICAL TRANSFER																			
7.OBJECTIVES OF STUDY	To formulate a Master Plan for flood control in the Agno River Basin and to identify the priority areas.			2.MAJOR REASONS FOR PRESENT STATUS																	
8.DATE OF S/W	Dec.1988			3.PRINCIPAL SOURCE OF INFORMATION																	
9.CONSULTANT(S)	Nihon Koei Co., Ltd. CTI Engineering Co., Ltd. Kokusai Kogyo Co., Ltd.																				
10.STUDY TEAM	No.of Members Period May.1989-Sep.1991(28 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total M/M	Japan	Field																	
Total M/M	Japan	Field																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																					
12.EXPENDITURE	Total 671,110 (¥'000) Contracted																				

和名 アグノ川流域治水計画

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

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

Compiled Mar.1993  
Revised

ASE PHL/S 207B/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																
1.COUNTRY	Philippines	1.SITE OR AREA	A beneficial area of 1,264 sq. km along the Upper Agno River (32 human settlements in central and northwestern Pangasinan, including the cities of Dagupan and San Carlos, and the towns of Camiling in Tarlac and Rosario in La Union) and 879 sq. km along		1.PRESENT STATUS  <input type="checkbox"/> Completed or in Progress <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled															
2.NAME OF STUDY	Agno River Basin Flood Control	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>1) 3,913</td> <td></td> <td></td> </tr> <tr> <td>US\$1=27.8pesos</td> <td>2) 3,895</td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 3,913			US\$1=27.8pesos	2) 3,895				3)	
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	1) 3,913																			
US\$1=27.8pesos	2) 3,895																			
	3)																			
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENT OF MAJOR PROJECT(S)	1) Flood Control Plan for the Upper Agno River a. River Improvement Plan 1. Bayambang - Alcala stretch (22.55 km) - Construction of a new dike downstream of the Calvo bridge to the Wawa bridge - Demolition of the existing Poponto inlet weir and construction of new 1,200m wide Poponto floodway together with channel improvement thereof - Construction of a new diversion channel at the bifurcation point of the floodway leading to the Bayambang stretch 2. Alcala - Asingan stretch (30.85km) - Heightening of existing dikes, enlargement of the existing low water channel (the design bed width of 150m) and construction of a shortcut - Construction of a new stretch levee on the right bank to enlarge the existing minimum river width to 900m (stretch length of 2.8 km of Camen) - Heightening of the existing 3.6 km long Carman concrete dike on the left bank 3. Asingan - San Manuel stretch (15.66 km)		(Description)															
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>20.58</th> <th>FIRR1)</th> <th>19.96</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> <td></td> </tr> </tbody> </table>			Feasibility:	EIRR1)	20.58	FIRR1)	19.96	Yes	EIRR2)		FIRR2)			EIRR3)		FIRR3)	
Feasibility:	EIRR1)	20.58	FIRR1)	19.96																
Yes	EIRR2)		FIRR2)																	
	EIRR3)		FIRR3)																	
5.TYPE OF STUDY	(M/P)+F/S	Conditions and Development Impacts: 1. Base Year Beginning of 1990 2. Project Life 50 years (from 1995 to 2044) 3. Economic Life 50 years (from 1995 to 2044) 4. Operational Costs 0.5% of main construction cost and maintenance cost of completed works 5. Price Levels May 1991 price levels 6. Growth Factor of Benefit Flow 1.049% (= Gross Regional Domestic Product) 7. Social Discount Rate 15%																		
6.COUNTERPART AGENCY	Deptment of Public Works and Highways (DPWH)	10.STUDY TEAM	No.of Members Period May.1989-Sep.1991 (28 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Total M/M	Japan	Field				2.MAJOR REASONS FOR PRESENT STATUS									
Total M/M	Japan	Field																		
7.OBJECTIVES OF STUDY	To conduct a Feasibility Study on the flood control projects in the identified priority areas.	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																		
8.DATE OF S/W	Dec.1988	5.technical transfer			3.PRINCIPAL SOURCE OF INFORMATION															
9.CONSULTANT(S)	Nihon Koei Co., Ltd. CTI Engineering Co., Ltd. Kokusai Kogyo Co., Ltd.	12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>671,110 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td></td> </tr> </tbody> </table>			Total	671,110 (¥'000)	Contracted												
Total	671,110 (¥'000)																			
Contracted																				

和名 アグノ川流域治水計画

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

# PROJECT SUMMARY (F/S)

Compiled Mar.1993  
Revised

ASE PHL/S 325/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Philippines	1.SITE OR AREA		Balara Water Treatment Plant		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled																
2.NAME OF STUDY		2.PROJECT COST		<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)</td> <td>10,576</td> <td>1,997</td> <td>8,579</td> </tr> <tr> <td>2)</td> <td>25,442</td> <td>5,764</td> <td>19,678</td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Total Cost	Local Cost	Foreign Cost	1)	10,576	1,997	8,579	2)	25,442	5,764	19,678	3)			
	Total Cost	Local Cost	Foreign Cost																				
1)	10,576	1,997	8,579																				
2)	25,442	5,764	19,678																				
3)																							
Balara Water Treatment Plant Rehabilitation Project																							
3.SECTOR	Public Utilities/Water Supply	3.CONTENTS OF MAJOR PROJECT(S)		(Description) In February 1992, MWSS submitted to National Economic Development Authority (NEDA) the request of applying for the Japanese Grant Aid Program to implement the project.																			
4.REFERENCE NO.		In order to recover the planned capacity (1.6 million cu.m./year) of the treatment plant, stabilize the water treatment process, and improve the maintenance and operation, the study recommends the replacement of the malfunctioning treatment equipment including chlorination. The study compared three alternatives shown below and judged that Alternative 2 would be technically and financially optimal.																					
5.TYPE OF STUDY	F/S	1. Replacement and rehabilitation of only those equipments which are in need of urgent replacement or rehabilitation 2. Rehabilitation and improvement of the basic equipment, in addition to the minimum replacement and rehabilitation above. 3. Modernization of the entire equipment based on the long-term needs																					
6.COUNTERPART AGENCY	Metropolitan Waterworks and Sewerage System (MWSS)	Alternative 2 consists of the replacement of defective equipment, the improvement of structural defects of sedimentation basins, and other necessary improvement measures in order to ensure the 15-year durability. The project cost 1) above is for Alternative 1, and the project cost 2) for Alternative 2.																					
7.OBJECTIVES OF STUDY	To recover the productivity of the plant and to improve the water quality.																						
8.DATE OF S/W	Feb.1991	Imp. Period:		.1992-.1995		2.MAJOR REASONS FOR PRESENT STATUS																	
9.CONSULTANT(S)	Nippon Jogesuido Sekkei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	<table border="1"> <tbody> <tr> <td>EIRR1)</td> <td>63.80</td> <td>FIRR1)</td> <td>7.80</td> </tr> <tr> <td>EIRR2)</td> <td>32.40</td> <td>FIRR2)</td> <td>5.40</td> </tr> <tr> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> <td></td> </tr> </tbody> </table>	EIRR1)			63.80	FIRR1)	7.80	EIRR2)	32.40	FIRR2)	5.40	EIRR3)		FIRR3)						
EIRR1)	63.80	FIRR1)	7.80																				
EIRR2)	32.40	FIRR2)	5.40																				
EIRR3)		FIRR3)																					
		Conditions and Development Impacts: The benefits such as health and welfare improvement and promotion of local industry will be brought approximately 6 million persons in Metro Manila. * EIRR 1) and FIRR 1) are for the replacement of the superannuated treatment equipment including chlorination, and EIRR 2) and FIRR 2) for the entire project.																					
10.STUDY TEAM				3.PRINCIPAL SOURCE OF INFORMATION																			
No.of Members 6 Period Aug.1991-Mar.1992 (8 months)																							
<table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>22.83</td> <td>9.20</td> <td>13.63</td> </tr> </tbody> </table>		Total M/M	Japan	Field	22.83	9.20	13.63																
Total M/M	Japan	Field																					
22.83	9.20	13.63																					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																							
12.EXPENDITURE		5.technical transfer																					
<table border="1"> <tbody> <tr> <td>Total</td> <td>89,337 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>77,191</td> </tr> </tbody> </table>		Total	89,337 (¥'000)	Contracted	77,191	Technical transfer in terms of confirmation method for the treated water capacity, adjustment method of intensity of coagulation and flocculation, the importances of sludge disposal of sedimentation basin, the importance of filter washing procedures and the adjustment of chemical dosage were conducted.		①															
Total	89,337 (¥'000)																						
Contracted	77,191																						

和名 バララ浄水場修復計画

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

## PROJECT SUMMARY (F/S)

Compiled Mar. 1993  
Revised

ASE PHL/S 324/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	1) Disaster restoration projects in the pilot provinces: Sixty-two disaster spots in the three provinces of Benquet, Batangas and Leyte (twenty-one spots in the Benquet Province, eighteen in Batangas and twenty-three in Leyte).		1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Rural Road Disaster Prevention Project	2. PROJECT COST	Total Cost      Local Cost      Foreign Cost (US\$1,000)      2,400      1,184      1,216 1) 2) 3)		
3. SECTOR	Transportation/Road	3. CONTENTS OF MAJOR PROJECT(S)	Restoration Methods of Disaster-damaged Roads: Type of Disaster      Urgent Measures      Permanent Measures 1. Cut slope failure      Removal of deposits      Recutting, etc. 2. Embank. slope fail.      Refilling, embankment, etc.      Refilling, embankment, etc. 3. Fall of rock/debris      Removal of deposits, etc.      Recutting, etc. 4. Landslide      Removal of deposits, etc.      Horizontal drain holes 5. Debris flow      Removal of deposits      Catch qabion wall, etc. 6. Washout of roadbeds      Refilling, embankment, etc.      Grouted riprap 7. Flooded/muddy road surface      Temporary side ditch      Surface drainage 8. Permanent/temporary bridge washout      H-Pile bent      Gravel surfacing Bailey bridge      Concrete bridge, or None 9. Perm./temp. bridge approach washout      Bailey bridge      Grouted riprap Concrete bridge 10. Other bridge damage      None      Concrete foot protection 11. Spillway Damage      Selected material fill      Support-type concrete wall, etc. 12. Culvert Damage      Refilling, embankment, etc.      Surface drainage, etc. 13. Seawall Damage      Wooden fence      Gravity type stone Masonry, etc.		
4. REFERENCE NO.		7. OBJECTIVES OF STUDY	(Description) The annual budgets of the DPWH have been, and are being, chiefly used for the restoration of those areas which were damaged by the earthquake in Luzon (July 1990) and the eruption of Mt. Pinatubo (Nov. 1991). This Study aimed to establish the restoration and preventive measures for the regional roads in disaster-prone areas. Therefore, the implementation will be repackaged with other road improvement projects.		
5. TYPE OF STUDY	F/S	8. DATE OF S/W	.0	Imp. Period:	Jan. 1992-Sep. 1995
6. COUNTERPART AGENCY	Department of Public Works and Highways (DPWH) Project Management Office (PMO)	9. CONSULTANT(S)	Katahira & Engineers International	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:      EIRR1)      FIRR1) Yes      EIRR2)      FIRR2) EIRR3)      FIRR3)
10. STUDY TEAM	No. of Members      9 Period      Sep. 1989-Jan. 1992 (27 months)  Total M/M      Japan      Field 53.00      3.00      50.00	Conditions and Development Impacts: 1. All of the proposed restoration methods are technically feasible. - Remedies of the condition that gabions, H-piles, Bailey bridge materials and vegetation seeds are not easily procured. - Understanding cautions about executing methods of gabions and horizontal drain holes, which are scarcely used. - Appropriate maintenance on the drain facilities, vegetation and rock fall catches. 2. All of the projects except two upgrading projects are economically feasible. - Analysis period is twenty years from 1992 to 2011. - Discount rate is 15% per annum. - Evaluation is quantitative analysis of cost and benefit by comparing between two cases: one that urgent measures are followed by permanent and the other that only urgent are executed. - "Without case" and with case are defined according to five disaster occurrence patterns (disaster patterns, Magnitude, frequency and restoration timing). - Costs are defined as those for urgent or permanent measures according to projects and are assumed to be disbursed at the first year of analysis. - Benefits are divided between covering and maintenance benefits.		2. MAJOR REASONS FOR PRESENT STATUS	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey Geological survey	5. TECHNICAL TRANSFER	Holding a seminar Counterpart training		3. PRINCIPAL SOURCE OF INFORMATION
12. EXPENDITURE	Total      214,000 (¥'000) Contracted      200,365			①	

和名 地方道路防災計画

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

# PROJECT SUMMARY (M/P)

ASO SGP/S 101/78

Compiled Mar.1986  
Revised Dec.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS 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 Strait of Singapore	2.PROJECT COST	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 24,937 (US\$1=SS\$2.16) 2)		(Description) (FY1991 Overseas Survey) The dredging was successfully completed consequent to the technical study concerned.						
3.SECTOR	Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)									
4.REFERENCE NO.		Plan for deepening the shallow areas(4 sites) in Singapore Strait. Based upon the bathymetric surveys, seismic surveys, Boring, and Inspection by divers, the followings are proposed. (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)									
5.TYPE OF STUDY	M/P										
6.COUNTERPART AGENCY	Port and Harbour Bureau, Ministry of Transport										
7.OBJECTIVES OF STUDY	Proposal on dredging method and cost estimates	4.CONDITIONS AND DEVELOPMENT IMPACTS		2.MAJOR REASONS FOR PRESENT STATUS (FY1991 Overseas Survey) The dredging was deemed necessary in connection with the introduction of the Traffic Separation Scheme in the Strait of Singapore.							
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 Ja										
10.STUDY TEAM	No.of Members 2 Period Aug.1978-Mar.1979(6 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>32.50</td> <td>13.13</td> <td>19.37</td> </tr> </tbody> </table>	Total M/M	Japan	Field	32.50	13.13	19.37	5. TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION ①②	
Total M/M	Japan	Field									
32.50	13.13	19.37									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY											
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>124,172 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>113,950</td> <td></td> </tr> </tbody> </table>		Total	124,172 (¥'000)	Contracted	113,950					
	Total	124,172 (¥'000)									
Contracted	113,950										

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 Mar.1990  
Revised Dec.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="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> 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 COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>1) 770</td> <td></td> <td></td> </tr> <tr> <td></td> <td>2) 2,160</td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 770				2) 2,160				3)	
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	1) 770																			
	2) 2,160																			
	3)																			
3.SECTOR	Communications & Broadcasting/Telecommunication	3.CONTENT(S) OF MAJOR PROJECT(S)	(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 were changed when the study was completed.  (FY1991 Overseas Survey) No additional information.																	
4.REFERENCE NO.		The Plant Renovation Project:																		
5.TYPE OF STUDY	F/S	1) 5 years life extension Antenna mechanical part & structure - partial repair Antenna servo drive system - to replace some devices																		
6.COUNTERPART AGENCY	Telecommunication Authority of Singapore	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																		
7.OBJECTIVES OF STUDY	To study the plant renovation of the SENTOSA-1 E/S	8.DATE OF S/W	Feb.1985	Imp. Period:	Aug.1985-Jan.1986															
9.CONSULTANT(S)	Japan Telecommunications Engineering and Consult	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)															
10.STUDY TEAM	No.of Members 4 Period Mar.1986-Jul.1986(5 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>7.64</td> <td>5.40</td> <td>2.24</td> </tr> </tbody> </table>	Total M/M	Japan	Field	7.64	5.40	2.24	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			2.MAJOR REASONS FOR PRESENT STATUS									
Total M/M	Japan	Field																		
7.64	5.40	2.24																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer																		
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td></td> <td>24,504 (¥000)</td> <td>18,662</td> </tr> </tbody> </table>		Total	Contracted		24,504 (¥000)	18,662	To submit the diagnosis of service life extension over the design life of the antenna			3.PRINCIPAL SOURCE OF INFORMATION									
	Total	Contracted																		
	24,504 (¥000)	18,662																		
					①②															

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 Mar.1990  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Singapore	1.SITE OR AREA	5 routes																		
2.NAME OF STUDY	Singapore Urban Transport Improvement	2.PROJECT COST	<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>700,000</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> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	700,000			2)				3)			
	Total Cost	Local Cost	Foreign Cost																		
1) (US\$1,000)	700,000																				
2)																					
3)																					
3.SECTOR	Transportation/Urban Transportation	3.CONTENTES OF MAJOR PROJECT(S)	<p>The study prepared plans to improve the feeder transport systems by introducing a new transit system for five selected areas. A detailed analysis was made of the Ang Mo Kio New Town System.</p> <p>Major project components:</p> <ol style="list-style-type: none"> <li>1) Route and alignment plan, including location of stations</li> <li>2) Infrastructure plan (structures, stations, yards) and preliminary design</li> <li>3) Selection of a transit system and an operation plan</li> </ol>																		
4.REFERENCE NO.		<p>(Description)</p> <p>Among the five suggested routes, the Sentosa Development Corporation and the Public Works Department are interested in implementing the Orchard - Sentosa Route, and taking steps to prepare part of the route for international tender.</p> <p>The Simpang New Town System is being studied further by the Housing Development Board in order to integrate it with the overall new town planning.</p> <p>The Ang Mo Kio New Town - Marine Parade Route has been included in the official arterial transport network plan.</p> <p>No significant actions have been taken on the Ang Mo Kio New Town Route and the Orchard - Marina Centre Route. Because of the competing new towns development, it is difficult for the Government to muster a consensus over a new system for Ang Mo Kio New Town. The area along the Orchard-Marina Centre Route is heavily builtup and a more detailed study and inter-agency coordination will be necessary before implementation.</p> <p>(FY1991 Overseas Survey)</p> <p>The concept of LRT was generally accepted and incorporated in the Concept Plan for urban transport.</p>																			
5.TYPE OF STUDY	F/S																				
6.COUNTERPART AGENCY	Public Works Department, Min. of National Development																				
7.OBJECTIVES OF STUDY	Evaluation of technical and operational feasibility of introducing a new transport system																				
8.DATE OF S/W	Apr.1987	Imp. Period:																			
9.CONSULTANT(S)	AI MEC Corporation Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)																
10.STUDY TEAM	<p>No.of Members 11</p> <p>Period Aug.1987-Nov.1988(15 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>53.23</td> <td>8.70</td> <td>44.53</td> </tr> </tbody> </table>	Total M/M	Japan	Field	53.23	8.70	44.53	<p>Conditions and Development Impacts:</p> <p>Condition: Smooth linkage of feeder transportation with the trunk system</p> <p>Development impacts:</p> <ol style="list-style-type: none"> <li>1) Reduction of pollution (air pollution and noise)</li> <li>2) Improvement of traffic safety</li> <li>3) Time saving by passengers</li> <li>4) Urban development in the vicinities of stations.</li> </ol>													
Total M/M	Japan	Field																			
53.23	8.70	44.53																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey	5.technical transfer	A seminar was held in Feb. 1990, with approximately 300 participants.																		
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>209,764 (¥000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>195,078</td> </tr> </tbody> </table>		209,764 (¥000)	Total		Contracted	195,078	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②</p>													
	209,764 (¥000)																				
Total																					
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)

ASO SGP/S 303/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																																									
1.COUNTRY	Singapore	1.SITE OR AREA	Central and northeastern parts of Singapore																																										
2.NAME OF STUDY	Selected Expressways	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>487,000</td> <td></td> <td></td> </tr> <tr> <td>1)</td> <td></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> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	487,000			1)				2)				3)																							
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(US\$1,000)	487,000																																												
1)																																													
2)																																													
3)																																													
3.SECTOR	Transportation/Road	3.CONTENTS OF MAJOR PROJECT(S)	<p>1)Improvement of PIE (Pan Island Expressway, 8.65km)</p> <p>2)New construction of KLE (Kallang Expressway 2.68km)</p> <p>3)New construction of PYE (Paya Lebar Expressway 10.17km)</p>																																										
4.REFERENCE NO.																																													
5.TYPE OF STUDY	F/S																																												
6.COUNTERPART AGENCY	Public Works Department (PWD), Ministry of National Development (MND)																																												
7.OBJECTIVES OF STUDY	Analysis of feasibility on the selected three expressways; PIE, KLE, and PYE.																																												
8.DATE OF S/W	Oct.1989	Imp. Period:	.1990-.2009																																										
9.CONULTANT(S)	Oriental Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>6.00</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td>60.00</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>79.50</td> <td>FIRR3)</td> </tr> </tbody> </table>			Feasibility:	EIRR1)	6.00	FIRR1)	Yes	EIRR2)	60.00	FIRR2)		EIRR3)	79.50	FIRR3)																												
Feasibility:	EIRR1)	6.00	FIRR1)																																										
Yes	EIRR2)	60.00	FIRR2)																																										
	EIRR3)	79.50	FIRR3)																																										
		Conditions and Development Impacts:	<p>Conditions:</p> <p>PIE: Widening of expressway from 6 lanes to 8 lanes</p> <p>KLE &amp; PYE: New construction of expressway with 6 lanes</p> <p>Development Impacts:</p> <p>1. Saving of total traveling time</p> <p>2. Saving of total vehicle operating cost</p> <p>3. Reduction of traffic accidents and environmental impacts</p> <p>The improvement of PIE and the construction of KLE and PYE are considered feasible in technical, economic and social aspects.</p>																																										
10.STUDY TEAM	<p>No.of Members 9</p> <p>Period Mar.1990-Mar.1991(13 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>46.08</td> <td>2.50</td> <td>43.58</td> </tr> </tbody> </table>	Total M/M	Japan	Field	46.08	2.50	43.58																																						
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46.08	2.50	43.58																																											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer	<p>1. Methodology of alternative evaluation.</p> <p>2. Clarification of issues solved and proposal of solutions.</p>																																										
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>164,071 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>152,700</td> </tr> </tbody> </table>		164,071 (¥'000)	Total		Contracted	152,700																																						
	164,071 (¥'000)																																												
Total																																													
Contracted	152,700																																												
		1.PRESENT STATUS	<p>Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/></p> <p>Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/></p> <p>Implementing <input checked="" type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/></p> <p>Processing <input type="checkbox"/></p>																																										
		(Description)	<p>A part of PIE was put to tender during the study period, and contractors were selected. The next section will be tendered soon. Construction of KLE and PYE will proceed in due course to detailed design, tender and construction in accordance with the schedule set by the PWD. As for PYE, the target year for construction is set for 2009. Implementation schedule:</p> <table border="1"> <thead> <tr> <th></th> <th>PIE</th> <th>KLE</th> <th>PYE</th> </tr> </thead> <tbody> <tr> <td>PIE:PIE/Woodsville Road IC - PIE/CTE IC Completion in 1994</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PIE/CTE IC West - PIE/BKE IC Completion in 1995</td> <td></td> <td></td> <td></td> </tr> <tr> <td>KLE:KLE/ECP IC - KLE/PIE IC Completion in 1997</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PYE:PYE/PIE IC - PYE/TPE IC Completion in 2010</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Estimated Project Cost (million S\$)</td> <td>84.4</td> <td>276.4</td> <td>358.1</td> </tr> <tr> <td>Construction Cost</td> <td></td> <td></td> <td></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> </tbody> </table> <p>(FY1991 Overseas Survey)</p> <p>The findings of the study were incorporated in the Concept Plan. The in-house detailed design was made on part of PIE during 1990 - 1993. The construction is scheduled for 1991 - 1995, wholly financed by domestic funds.</p> <p>(FY1992 Overseas Survey)</p> <p>The project is financed by the Government of Singapore (PIE: S\$ 93.3 Mil., KLE: S\$ 332.8 Mil.).</p>				PIE	KLE	PYE	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				Estimated Project Cost (million S\$)	84.4	276.4	358.1	Construction Cost				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
	PIE	KLE	PYE																																										
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Contingencies (10%)	8.4	31.0	37.5																																										
Total	92.8	340.6	412.5																																										
		2.MAJOR REASONS FOR PRESENT STATUS	<p>Development of the expressway system is considered urgent to maintain high standards of social infrastructure services in Singapore.</p>																																										
		3.PRINCIPAL SOURCE OF INFORMATION	<p>①②</p>																																										

和名 カラン・バ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 Mar.1986  
Revised Mar.1993

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 (Jaffna, Trincomalee, Anuradhapura, Kurunegala, Badulla, (Ratnapura))														
2.NAME OF STUDY	Outside Colombo Area Telecommunication Development Scheme: Stage II Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>8,341</td> <td>1,658</td> <td>6,683</td> </tr> <tr> <td>US\$1=290Yen=Rs7.28</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	8,341	1,658	6,683	US\$1=290Yen=Rs7.28			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	8,341	1,658	6,683														
US\$1=290Yen=Rs7.28																	
3.SECTOR	Communications & Broadcasting/Telecommunication	3.CONTENT(S) OF MAJOR PROJECT(S)	<p>1) Subscriber trunk dialling systems: 6 cities except Colombo</p> <p>2) Cross-bar systems</p> <p>- 6 local switches (total of 14,500 terminals): Colombo Central, Anuradhapura, Jaffna, Kurunegala, Ratnapura, Badulla, Trincomalee</p> <p>- Toll switch (400 terminals): Colombo Central</p> <p>- Toll transit switch (200 terminals): Colombo Central</p> <p>3) Toll transmission paths (new and extension)</p> <p>New microwave radio systems (3 paths); Extension of microwave radio systems (2 paths); new UHF system (1 path); and Cable carrier systems (2 paths)</p> <p>4) Local cables at 6 telephone offices: Aerial cable 68km and underground cable 30.5km (Badulla, Colombo Central, Jaffna, Kurunegala, Ratnapura)</p> <p>5) 5 office buildings</p> <p>Badulla Telephone Office and four radio repeater stations (Single Tree Hill, Namunukula, Suriyakanda, Kurunegala Rock)</p>														
4.REFERENCE NO.		8.DATE OF S/W	.0	<p>1.PRESENT STATUS</p> <p> <input checked="" type="checkbox"/> Completed or in Progress    <input type="checkbox"/> Promoting  <input checked="" type="radio"/> Completed    <input type="checkbox"/> Delayed or Suspended  <input type="radio"/> Implementing    <input type="checkbox"/> Discontinued or Cancelled  <input type="radio"/> Processing                 </p> <p>(Description)</p> <p>The project was implemented by the OECF loan.</p> <p>Mar. 1978 OECF loan agreement signed (1,940 million yen)</p> <p>Dec. 1982 Implementation completed</p>													
5.TYPE OF STUDY	F/S	9.CONULTANT(S)															
6.COUNTERPART AGENCY	Ministry of Post and Telecommunication	4.FEASIBILITY AND ITS ASSUMPTIONS	<p>Feasibility: Yes</p> <table border="1"> <thead> <tr> <th></th> <th>EIRR1</th> <th>15.10</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td></td> <td>EIRR2</td> <td></td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td></td> <td>FIRR3</td> </tr> </tbody> </table>				EIRR1	15.10	FIRR1		EIRR2		FIRR2		EIRR3		FIRR3
	EIRR1	15.10	FIRR1														
	EIRR2		FIRR2														
	EIRR3		FIRR3														
7.OBJECTIVES OF STUDY		<p>Conditions and Development Impacts:</p> <p>Conditions:</p> <p>1) Project life of 20 years, construction period of 2 years, and discount rate of 15%</p> <p>2) Assuming that the India - Sri Lanka Microwave System (which is expected to be used as the transmission line of the proposed project) be completed by the end of 1978, 50% of its construction cost is included in the project cost.</p> <p>3) Operation &amp; maintenance costs are assumed to be 3.5% and 12% respectively of the construction cost.</p> <p>Development impacts:</p> <p>1) Extension of telecommunication to regional cities which are now inadequately serviced</p> <p>2) Reduction of waiting subscriber applications</p> <p>3) Stimulation of socio-economic development in Colombo and 6 regional cities</p>															
10.STUDY TEAM	<p>No. of Members 10</p> <p>Period Jan.1977-Jul.1977 (5 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>21.00</td> <td>2.00</td> <td>19.00</td> </tr> </tbody> </table>	Total M/M	Japan	Field	21.00	2.00	19.00	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		2.MAJOR REASONS FOR PRESENT STATUS							
Total M/M	Japan	Field															
21.00	2.00	19.00															
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>22,095 (Y'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>69,027</td> <td></td> </tr> </tbody> </table>		Total	22,095 (Y'000)	Contracted	69,027		5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION							
	Total	22,095 (Y'000)															
Contracted	69,027																
				①④													

和名 電気通信網整備計画

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

# PROJECT SUMMARY (F/S)

ASO LKA/A 301/77

Compiled Mar.1990  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																												
1.COUNTRY	Sri Lanka	1.SITE OR AREA	Puttalam District																													
2.NAME OF STUDY	Inginimitiya Reservoir Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>23,200</td> <td>13,600</td> <td>9,000</td> </tr> <tr> <td>US\$1=7.28Rs.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	23,200	13,600	9,000	US\$1=7.28Rs.																		
	Total Cost	Local Cost	Foreign Cost																													
(US\$1,000)	23,200	13,600	9,000																													
US\$1=7.28Rs.																																
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	<p>1) Irrigation Area: 2,500 ha</p> <p>2) Dam Type: Homogeneous type Length: 3.97 km Top width: 6.10 m Approximate number of cubes: 1,112,190 cu.m</p> <p>3) Reservoir Effective storage capacity: 60.2 MCM Total drainage area: 614,685 sq.km Maximum annual yield (for 150 sq.miles): 415,574,000 cu.m</p> <p>4) Main Canal Type: Earth Channel Length: LB 21.40 km RB 26.06 km Irrigation area: LB 1,620 ha RB 931.5 ha</p>																													
4.REFERENCE NO.		8.DATE OF S/W	Dec.1976																													
5.TYPE OF STUDY	F/S	9.CONSULTANT(S)	Japan Engineering Consultants Co., Ltd.																													
6.COUNTERPART AGENCY	Ministry of Irrigation, Power and Highways	10.STUDY TEAM	<p>No.of Members</p> <p>Period Mar.1977-Aug.1977(6 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>21.50</td> <td>13.80</td> <td>7.70</td> </tr> </tbody> </table>			Total M/M	Japan	Field	21.50	13.80	7.70																					
Total M/M	Japan	Field																														
21.50	13.80	7.70																														
7.OBJECTIVES OF STUDY	Rural Development by the Dam Construction and Downstream Development	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td></td> <td>56,276 (¥'000)</td> <td>48,427</td> </tr> </tbody> </table>		Total	Contracted		56,276 (¥'000)	48,427	5.technical transfer																								
	Total	Contracted																														
	56,276 (¥'000)	48,427																														
		4.FEASIBILITY AND ITS ASSUMPTIONS	<p>Feasibility: Yes</p> <table border="1"> <thead> <tr> <th>BIRR1</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>18.00</td> <td></td> </tr> <tr> <th>BIRR2</th> <th>FIRR2</th> </tr> <tr> <td></td> <td></td> </tr> <tr> <th>BIRR3</th> <th>FIRR3</th> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>Conditions and Development Impacts:</p> <p>Conditions:</p> <p>1) A five year project implementation and a 50 year project life</p> <p>2) The output in the newly developed land in the 6th and the 11th year will be as follows:</p> <table border="1"> <thead> <tr> <th></th> <th>Paddy</th> <th>Soya Bean</th> <th>Pulses</th> <th>Chillies (kg)</th> </tr> </thead> <tbody> <tr> <td>6th year</td> <td>939.2</td> <td>304.8</td> <td>254</td> <td>355.6</td> </tr> <tr> <td>11th year</td> <td>1,669.6</td> <td>609.6</td> <td>508</td> <td>762</td> </tr> </tbody> </table> <p>3) Projected 1985 world market prices in terms of 1976 dollars for agricultural inputs and outputs.</p> <p>4) Benefit by increasing the agricultural products</p> <p>Development Impacts:</p> <p>1) Increase the agricultural products</p> <p>2) Create the farmer organizations and improve rural living condition</p>			BIRR1	FIRR1	18.00		BIRR2	FIRR2			BIRR3	FIRR3				Paddy	Soya Bean	Pulses	Chillies (kg)	6th year	939.2	304.8	254	355.6	11th year	1,669.6	609.6	508	762
BIRR1	FIRR1																															
18.00																																
BIRR2	FIRR2																															
BIRR3	FIRR3																															
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6th year	939.2	304.8	254	355.6																												
11th year	1,669.6	609.6	508	762																												
		1.PRESENT STATUS	<p>Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/></p> <p>Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/></p> <p>Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/></p> <p>Processing <input type="checkbox"/></p>																													
		(Description)	<p>The proposed project was completed by the OECF loan.</p> <p>Aug.1978 OECF L/A signed (1,800 million yen)</p> <p>Jun.1979 - Jun.1984 D/D and engineering service undertaken by Japan Engineering Consultants Co., Ltd.</p> <p>Sep.1981 Construction started</p> <p>Mar.1985 Construction completed</p> <p>OECF Loan:</p> <ul style="list-style-type: none"> <li>- Earth dam (length4,648m, height 18m, Cap.60.19 milliontons)</li> <li>- Irrigation facilities (existing 664 ha, new 1,887ha)</li> <li>- Land clearing &amp; preparation and settlement (1,680 households)</li> </ul> <p>(FY 1992 Overseas Survey)</p> <p>The dam has already been in use. However, owing to the shortage of water, the planted area was far below the planned target (approx. 50% of the target during 1985 - 1993).</p> <p>Presently a study to identify the reasons of the water shortage (SAPS) is being conducted, and the final report is due in March 1993.</p>																													
		2.MAJOR REASONS FOR PRESENT STATUS																														
		3.PRINCIPAL SOURCE OF INFORMATION	①③④																													

和名 インギニミチャ灌がいダム計画

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

# PROJECT SUMMARY (F/S)

ASO LKA/A 302/79

Compiled Mar.1990  
Revised Mar.1993

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 Anqamedilla anicut and Elahera anicut on the Amban ganga (62,200ha)														
2.NAME OF STUDY	Moragahakanda Agricultural development Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>187,470</td> <td>63,670</td> <td>123,800</td> </tr> <tr> <td>US\$1=15Rs in Dec.1978</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	187,470	63,670	123,800	US\$1=15Rs in Dec.1978			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	187,470	63,670	123,800														
US\$1=15Rs in Dec.1978																	
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	<p>1.Dam and Reservoir Effective Storage Capacity: 686 MCM Dam Type : Rockfill (Main Dam and 2nd saddle-dam) Concrete Gravity (1st Saddle-dam)</p> <p>2.Downstream Development Irrigation area: 62,200 ha Canal Irrigation Canal 145.2 km Drainage Canal 91.4 km</p>														
4.REFERENCE NO.		<p>(Description)</p> <p>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.</p> <p>(FY 1992 Overseas Survey)</p> <p>Another JICA study (M/P+F/S) was conducted in two phases during 1988 - 1989 to review this feasibility study. The new study proposed the construction of dams, irrigation development (62,000ha) and a hydropower plant (25MW) in the 1st phase and proposed 3-stage development plan for the NCRB area in the 2nd phase.</p> <p>The Sri Lankan government is now considering the construction of Karuganga Dam proposed by the new study. As a result, the proposals of this F/S were greatly changed.</p>															
5.TYPE OF STUDY	F/S																
6.COUNTERPART AGENCY	Mahaweli Development Board																
7.OBJECTIVES OF STUDY	Development by dam construction and the downstream development																
8.DATE OF S/W	Jul.1978	Imp. Period:	.1980-.1988														
9.CONSULTANT(S)	Japan Engineering Consultants Co., Ltd. Nihon Koei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 12.00 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)												
10.STUDY TEAM	<p>No.of Members 15</p> <p>Period Oct.1978-Sep.1979(10 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>92.70</td> <td>51.10</td> <td>41.60</td> </tr> </tbody> </table>	Total M/M	Japan	Field	92.70	51.10	41.60	<p>Conditions and Development Impacts:</p> <p>Conditions: Benefit by hydroelectric power for the electric supply capacity and by irrigation for the agricultural products.</p> <p>Development Impacts: Increase of the agricultural products, improvement of an unemployment problem Development of social economy</p>									
Total M/M	Japan	Field															
92.70	51.10	41.60															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer															
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>231,530 (¥000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>210,460</td> </tr> </tbody> </table>		231,530 (¥000)	Total		Contracted	210,460	<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②</p>									
	231,530 (¥000)																
Total																	
Contracted	210,460																

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 (M/P+F/S)

ASO LKA/S 201A/80

Compiled Mar.1986  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Sri Lanka	1.SITE OR AREA	Colombo (Field investigation was also conducted at Galle and Trincomare Pors)	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	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    130,360 (US\$1=218.89Yen)    2)	(Description) It has been included in National Development Plan, and it is now under construction.							
3.SECTOR	Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)	The study formulated a Master Plan with a target year of 1988. 1. Conventional berths 1) One new berth (KQ #2): -12m x 250m (to be modified to a container berth after 1988) 2) Expansion one berth to two berths: -9m x 165m & expansion 50m 3) Others (3 berths converted to ship repair berths, one berth converted to a container berth) 2. Container berths 1) Three new berths (KQ #1, #2, #3) 2) Containerization of QEQ #5 (crane foundation, etc.) 3. One oil berth: Dolphines, pipelines, bunkering facilities, etc. 4. Cargo handling equipment (85 fork lifts, 8 mobile cranes & one floating crane) 5. Road 5.7km (two-lane in 1982 four-lane in 1988)								
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	Basic Guidelines for the Master Plan: 1) The present and future congestion of the Port will be reduced by mechanization of cargo handling and additional berthing facilities. Development of oil-handling facilities will be planned apace with the expansion of the existing oil refinery. 2) Containerization of the Port includes the modification of existing berths and if deemed necessary the construction of new container terminals. 3) More effective and adequate land use planning 4) The road network will be improved to increase the Port-related road transport capacity and to insure better linkage with Colombo City. 5) An urgent need for the expansion of large vessel repair facilities will be considered.  Demand Forecast: (figures in parentheses show containerized cargo) ('000 tons)    1983    1988 Dry cargo    3,313 (899)    4,573 (2,398) Wet cargo    2,865    3,108								
5.TYPE OF STUDY	M/P+ (F/S)			2.MAJOR REASONS FOR PRESENT STATUS							
6.COUNTERPART AGENCY	Sri Lanka Ports Authority (SLPA)										
7.OBJECTIVES OF STUDY	Short Term Development Plan, and Long Term Development Plan										
8.DATE OF S/W	May.1979										
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja										
10.STUDY TEAM	No.of Members    9 Period    Jun.1979-Mar.1980 (9 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>46.14</td> <td>33.60</td> <td>12.54</td> </tr> </tbody> </table>	Total M/M	Japan	Field	46.14	33.60	12.54				
Total M/M	Japan	Field									
46.14	33.60	12.54									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY											
12.EXPENDITURE	Total    104,401 (¥'000) Contracted    89,707	5.technical transfer	Giving lecture on the methods for Port Planning.	3.PRINCIPAL SOURCE OF INFORMATION ①②							

和名 コロンボ港整備計画

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

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

ASO LKA/S 201B/80

Compiled Mar.1990  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	Sri Lanka	1.SITE OR AREA	Colombo														
2.NAME OF STUDY	Development Project of the Port of Colombo	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>70,458</td> <td>16,418</td> <td>54,040</td> </tr> <tr> <td>(US\$1=218.89Yen)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	70,458	16,418	54,040	(US\$1=218.89Yen)			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	70,458	16,418	54,040														
(US\$1=218.89Yen)																	
3.SECTOR	Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)	<p>Urgent Plan</p> <p>1) One new conventional berth (KQ #2): -12m x 250m</p> <p>2) Conversion of one berth to a ship repair berth</p> <p>3) Cargo handling equipment (38 3-ton fork lifts, 47 5-ton fork lifts, 30-ton mobile cranes and one floating crane)</p> <p>4) One new container berth (KQ #1): -12m x 300m</p> <p>5) Crane foundation and others for QEQ #5: -11m x 200m</p> <p>6) container equipment (3 container cranes, etc.)</p> <p>7) Road 5.7km (two-lane)</p>														
4.REFERENCE NO.		7.OBJECTIVES OF STUDY	<p>Formulating of:</p> <p>Short Term Development Plan and Long Term Development Plan</p>														
5.TYPE OF STUDY	(M/P)+F/S	8.DATE OF S/W	May.1979														
6.COUNTERPART AGENCY	Sri Lanka Ports Authority	9.CONCONSULTANT(S)	Overseas Coastal Area Development Institute of Ja														
		4.FEASIBILITY AND ITS ASSUMPTIONS	<p>Feasibility: Yes</p> <p>EIRR1) 17.10 FIRR1) 8.22</p> <p>EIRR2) FIRR2)</p> <p>EIRR3) FIRR3)</p>														
		Conditions and Development Impacts:	<p>Conditions:</p> <p>1) Project life of 25 years (1980-2004)</p> <p>2) 25% increase of port tariffs, excluding container tariff</p>														
10.STUDY TEAM	<p>No.of Members 9</p> <p>Period Jun.1979-Mar.1980 (9 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>46.14</td> <td>33.60</td> <td>12.54</td> </tr> </tbody> </table>	Total M/M	Japan	Field	46.14	33.60	12.54	Development impacts:	<p>1) Reduction of cargo handling costs</p> <p>2) Reduction of ships' staying and waiting costs and time</p> <p>3) Improvement of the safety of navigation</p> <p>4) the role as a center of entrepot trade and container feeder services</p> <p>5) Value-added earned by ship repair (Colombo Dockyard Ltd.)</p> <p>6) Contribution of expanded port activities to economic development</p>								
Total M/M	Japan	Field															
46.14	33.60	12.54															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer	Giving lecture on the methods for Port Planning														
12.EXPENDITURE	<p>Total 104,401 (¥'000)</p> <p>Contracted 89,707</p>	2.MAJOR REASONS FOR PRESENT STATUS	High return from the project														
		3.PRINCIPAL SOURCE OF INFORMATION	①②④														

和名 コロンボ港整備計画

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

# PROJECT SUMMARY (Other)

ASO LKA/S 601/80

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS 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.PROJECT COST	Total Cost Local Cost Foreign Cost	(Description)	
3.SECTOR	Transportation/Port	(US\$1,000)	1) 2)		
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)			
5.TYPE OF STUDY	Other	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.			
6.COUNTERPART AGENCY		4.CONDITIONS AND DEVELOPMENT IMPACTS		2.MAJOR REASONS FOR PRESENT STATUS	
7.OBJECTIVES OF STUDY	Technical explanation to the government authorities	5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION	
8.DATE OF S/W	.0			①	
9.CONSULTANT(S)					
10.STUDY TEAM	No.of Members Period Aug.1980-Sep.1980 (0 months)  Total M/M Japan Field				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12.EXPENDITURE	Total 1,510 (¥'000) Contracted 1,510				

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)

ASO LKA/A 303/81

Compiled Mar.1990  
Revised Mar.1993

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)																										
2.NAME OF STUDY	Mahaweli Ganga Agricultural Development: System C	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>85,300</td> <td>40,100</td> <td>45,200</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	85,300	40,100	45,200																
	Total Cost	Local Cost	Foreign Cost																										
(US\$1,000)	85,300	40,100	45,200																										
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	<p>1. Main Canal 17.4 km 2. Branch Canal 54.7 km 3. Farm ditch 50.1 km 4. Main drains Kuda Oya, Hungamala Ela 5. Reclamation (Block 3.4.5) 6. Equipment and Vehicles</p> <table border="1"> <thead> <tr> <th></th> <th>Area/Length</th> </tr> </thead> <tbody> <tr> <td>1) Land clearing</td> <td>9,255 ha</td> </tr> <tr> <td>2) Distributor and field channels</td> <td>6,960 ha</td> </tr> <tr> <td>3) Secondary and field channels</td> <td>6,960 ha</td> </tr> <tr> <td>4) On-farm development</td> <td>6,960 ha</td> </tr> <tr> <td>5) Roads</td> <td>130 km</td> </tr> <tr> <td>6) Equipment and Vehicles</td> <td></td> </tr> <tr> <td>1) Maintenance equipment</td> <td></td> </tr> <tr> <td>2) Management and operation vehicles</td> <td></td> </tr> <tr> <td>3) Tractor hire service equipment and vehicles</td> <td></td> </tr> <tr> <td>4) Social infrastructure vehicles</td> <td></td> </tr> <tr> <td>5) Settlement vehicles</td> <td></td> </tr> </tbody> </table>				Area/Length	1) Land clearing	9,255 ha	2) Distributor and field channels	6,960 ha	3) Secondary and field channels	6,960 ha	4) On-farm development	6,960 ha	5) Roads	130 km	6) Equipment and Vehicles		1) Maintenance equipment		2) Management and operation vehicles		3) Tractor hire service equipment and vehicles		4) Social infrastructure vehicles		5) Settlement vehicles	
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4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>16.80</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2</td> <td></td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td></td> <td>FIRR3</td> </tr> </tbody> </table>			Feasibility:	EIRR1	16.80	FIRR1	Yes	EIRR2		FIRR2		EIRR3		FIRR3												
Feasibility:	EIRR1	16.80	FIRR1																										
Yes	EIRR2		FIRR2																										
	EIRR3		FIRR3																										
5.TYPE OF STUDY	F/S	5. TECHNICAL TRANSFER																											
6.COUNTERPART AGENCY	Mahaweli Development Board	6. EQUIPMENT AND VEHICLES	<p>1) Maintenance equipment 2) Management and operation vehicles 3) Tractor hire service equipment and vehicles 4) Social infrastructure vehicles 5) Settlement vehicles</p>																										
7.OBJECTIVES OF STUDY	Agricultural products increased by improvement of irrigation system	7. OBJECTIVES OF STUDY	<p>Agricultural products increased by improvement of irrigation system</p>																										
8.DATE OF S/W	.0	8. DATE OF S/W	.0																										
9.CONSULTANT(S)	Japan Engineering Consultants Co., Ltd. Nihon Koei Co., Ltd.	9. CONSULTANT(S)	Japan Engineering Consultants Co., Ltd. Nihon Koei Co., Ltd.																										
10.STUDY TEAM	No. of Members 6 Period Mar.1981-Mar.1981 (1 months)	10. STUDY TEAM	<table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>3.00</td> <td>1.80</td> <td>1.20</td> </tr> </tbody> </table>			Total M/M	Japan	Field	3.00	1.80	1.20																		
Total M/M	Japan	Field																											
3.00	1.80	1.20																											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY																											
12.EXPENDITURE	Total 28,983 (¥'000) Contracted 7,000	12. EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td>28,983 (¥'000)</td> <td>7,000</td> </tr> </tbody> </table>			Total	Contracted	28,983 (¥'000)	7,000																				
Total	Contracted																												
28,983 (¥'000)	7,000																												
		1.PRESENT STATUS	<p>Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing <input type="checkbox"/></p>																										
		(Description)	<p>(FY1991 Overseas Survey) The project is under implementation. 90% of the project has been completed.</p> <p>(FY1992 Overseas Survey) The construction of the main and branch canals were completed at the end of 1992. The construction of end canals, drainage and pavements is scheduled to be completed during 1993.</p> <p>Technical guidance in agricultural technology and water management is being conducted by Dept. of Economics, Mahaweli Authority (to be continued till 1994).</p> <p>The project has been financed by OECF, IDA and Kuwait Fund.</p> <p>Oct.1981 OECF L/A signed (7,700 mil. yen) May 1988 OECF L/A signed (2,950 mil. yen) Main and branch canals were completed in the end of 1992. Tertiary irrigation and drainage canals and rural roads will be completed in 1993.</p> <p>Japanese Grant Aid: Dec.1982 E/N signed (996 mil. yen for the Pilot Farm)</p> <p>Japanese Technical Cooperation (project type): Feb.1985 - Jan.1990 Trials and demonstration on the pilot farm</p>																										
		2.MAJOR REASONS FOR PRESENT STATUS																											
		3.PRINCIPAL SOURCE OF INFORMATION	①②③④																										

和名 マハヴェリ農業開発計画システムC地区

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

# PROJECT SUMMARY (F/S)

ASO LKA/S 302/82

Compiled Mar.1988  
Revised Mar.1993

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														
2.NAME OF STUDY	Water Supply Scheme for Amparai Group of Towns	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>20,300</td> <td>13,100</td> <td>7,200</td> </tr> <tr> <td>(US\$1=250Yen=20.8Rp)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	20,300	13,100	7,200	(US\$1=250Yen=20.8Rp)			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	20,300	13,100	7,200														
(US\$1=250Yen=20.8Rp)																	
3.SECTOR	Public Utilities/Water Supply	3.CONTENTES OF MAJOR PROJECT(S)	<p>Service Area 1995 : 2,732 ha 2005 : 3,325 ha</p> <p>Served Population 1995 : 172,300 2005 : 261,100</p> <p>Daily Max. 1995 : 27,400 cu.m/day 2005 : 53,900 cu.m/day</p> <p>Water Sources Amparai area : Amparai reservoir Coastal area : Sambuveli weir (surface water)</p>														
4.REFERENCE NO.																	
5.TYPE OF STUDY	F/S																
6.COUNTERPART AGENCY	National Water Supply and Drainage Board																
7.OBJECTIVES OF STUDY	F/S on local water supply system for improvement on shortage of supply and environment hygiene																
8.DATE OF S/W	Dec.1981	Imp. Period:	Jun.1983-Dec.1986														
9.CONSULTANT(S)	Nihon Suido Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </tbody> </table> <p>4.91</p>			Feasibility:	EIRR1)	FIRR1)	Yes/No	EIRR2)	FIRR2)		EIRR3)	FIRR3)			
Feasibility:	EIRR1)	FIRR1)															
Yes/No	EIRR2)	FIRR2)															
	EIRR3)	FIRR3)															
10.STUDY TEAM	<p>No.of Members 6</p> <p>Period Feb.1982-Oct.1982(8 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>45.61</td> <td>27.41</td> <td>18.20</td> </tr> </tbody> </table>	Total M/M	Japan	Field	45.61	27.41	18.20	<p>Conditions and Development Impacts:</p> <p>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.</p>	<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>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.</p> <p>As of Aug.1987, it was reported that the project was started by IDA fund and a British consultant was selected in July 1987.</p> <p>The situation unchanged in 1991.</p> <p>(FY 1991 Overseas Survey)</p> <p>No additional information</p> <p>(FY 1992 Overseas Survey)</p> <p>At this moment (March 1993), the donar(s) for the project has not been decided. Once it is decided, the implementation of the project will be reconsidered.</p>								
Total M/M	Japan	Field															
45.61	27.41	18.20															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER	Carried out the training program on the water supply planning to two counterpart staff														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>112,094 (¥'000)</td> <td></td> </tr> <tr> <td>Contracted</td> <td>103,138</td> </tr> </tbody> </table>		Total	112,094 (¥'000)		Contracted	103,138	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>Due to shortage of government fund, the Sri Lanka Government did not make any official request for assistance from Japan.</p> <p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②</p>									
	Total																
112,094 (¥'000)																	
Contracted	103,138																

和名 地方上水道整備計画

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



# PROJECT SUMMARY (Other)

ASO LKA/S 602/82

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Sri Lanka	1.SITE OR AREA			1.PRESENT STATUS						
2.NAME OF STUDY	Colombo Airport Development (follow-up)	katunayake			<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
3.SECTOR	Transportation/Air Transportation & Airport	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    115,739    25,525 (US\$1=20.55Yen)    2)		(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 of the project was as follows. OECF - Passenger Terminal (10,200 million yen) EXIM Japan - Runway UK ODA - Navais France - Other facilities  (FY1991 Overseas Survey) No additional information.						
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)									
5.TYPE OF STUDY	Other	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.									
6.COUNTERPART AGENCY	Airport and Aviation Service(S.L.) Ltd.										
7.OBJECTIVES OF STUDY	Detailed investigation of construction cost										
8.DATE OF S/W	.0	4.CONDITIONS AND DEVELOPMENT IMPACTS		2.MAJOR REASONS FOR PRESENT STATUS							
9.CONSULTANT(S)	Japan Airport Consultants, Inc.	Greatly improved handling of air passengers and other users of airport is expected to contribute to earning of foreign exchange.									
10.STUDY TEAM	No.of Members    2 Period    Dec.1981-May.1982 (6 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>4.42</td> <td>3.26</td> <td>1.16</td> </tr> </tbody> </table>	Total M/M	Japan	Field	4.42	3.26	1.16				
Total M/M	Japan	Field									
4.42	3.26	1.16									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY				3.PRINCIPAL SOURCE OF INFORMATION							
12.EXPENDITURE		5.technical transfer		①②							
Total	26,740 (¥'000)	OJT is made by having the local consultants assist the Japanese consultants in the supervision of construction.									
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 Mar.1986  
Revised Mar.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 COST	Total Cost 51,080 Local Cost 19,790 Foreign Cost (US\$1,000) 1) (US\$1/225Yen=23Rs) 2) 3)								
3.SECTOR	Transportation/Road	3.CONTENTS OF MAJOR PROJECT(S)	(Description)  The D/D of the port access road (1.5km) of Project B was undertaken as part of the OECF loan on the Colombo Port improvement (L/A in Oct.1987, 1,955 million yen).  Mar.1990 OECF E/S loan agreement (520 million yen) on Colombo - Katunayake Express way Jun.1990 D/D started Dec.1992 D/D completed								
4.REFERENCE NO.											
5.TYPE OF STUDY	F/S										
6.COUNTERPART AGENCY	Greater Colombo Economic Commission (GCEC)										
7.OBJECTIVES OF STUDY		[Project A] 1) Main Road 25.4km K-1:Daluqama IC - Raqama IC 7.1km; K-2:Raqama IC - Ekala IC 8.4km K-3:Ekala IC - Airport 9.9km 2) Alternatives and affiliated roads K-4:Wewelduwa - Kiribathqoda(Access Road to Biyaqama) 1.7km K-5:Ekala IC - Negombo(A3)Road 3.1km; K-6:Danduqam - Airport 9.5km K-7:KIP2IC - Canada Sri Lanka Friendship Road 1.6km [Project B] 1) Main Road 5.7km P-1:Colombo Port - Prince of Wales Avenue 1.6km P-2:Prince of Wales Avenue - Peliyaqoda 1.5km P-3:Peliyaqoda - Daluqama(Along Kandy) 2.9km 2) Alternative and affiliated roads P-4:Peliyaqoda - Daluqama (Along Kandy) 2.6km P-5:Peliyaqoda - Wattala 1.0km									
8.DATE OF S/W	Sep.1982	Imp. Period:	Jan.1986-Dec.1989								
9.CONSULTANT(S)	Japan Bridge and Structure Instituted, Inc. Kokusai Kougyo Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes EIRR1) 18.50 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)								
10.STUDY TEAM	No.of Members 21 Period Dec.1982-Jan.1984(13 months)  <table border="1"> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> <tr> <td>65.59</td> <td>7.49</td> <td>58.10</td> </tr> </table>	Total M/M	Japan	Field	65.59	7.49	58.10	Conditions and Development Impacts: [Conditions] Start of operation in 1990; the project life of 25 years; opportunity cost of capital at 12%. [Development Impacts] 1) Establishment of an efficient road network through the separation of passing traffics and large vehicles. 2) Productivity improvement in the GCEC area and Gampaha District as the result of transport connection. 3) Inducement of new industrial investments to Katunayake Investment Promotion Zone and elsewhere. 4) Expansion of the regional market due to the construction of new roads, particularly of the expressway. 5) Shortening of the commuting time within GCEC area and Gampaha District, and the resulting population diffusion effect.			
Total M/M	Japan	Field									
65.59	7.49	58.10									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic and geological survey	5.technical transfer	1) Participation of 2 trainees in JICA training program 2) OJT								
12.EXPENDITURE	Total 203,467 (¥'000) Contracted 193,010	3.PRINCIPAL SOURCE OF INFORMATION ①②④									
		2.MAJOR REASONS FOR PRESENT STATUS The project implementation was long suspended owing to the political destabilization, but has been resumed to alleviate the traffic congestion.									

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 Mar.1986  
Revised Mar.1993

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 COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>38,333</td> <td>4,526</td> <td>33,807</td> </tr> <tr> <td>(US\$1=270Yen)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	38,333	4,526	33,807	(US\$1=270Yen)			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	38,333	4,526	33,807														
(US\$1=270Yen)																	
3.SECTOR	Communications & Broadcasting/Telecommunication	3.CONTENT(S) OF MAJOR PROJECT(S)	<p>(1) Junction Network Junction cable installation: 109.1km (The above includes optical fiber cable installation for 11.7km.) PCM system establishment: 781 systems PCM repeaters: 1,411 pcs Manhole construction: 327 pcs Duct installation: Installation length 59.7 km, Pipe length 230km</p> <p>(2) Subscriber Network Primary cable installation: 147km Secondary cable installation: 950km Cross-connecting cabinet establishment: 187 locations Number of lead-in cable pairs to exchanges: 67,900 pairs Manhole construction: 450 pcs Duct installation: Installation length 96km, Pipe length 490km</p>														
4.REFERENCE NO.		<p>(Description)</p> <p>May 1985 OECF loan agreement (10,359 million yen) (Ph-1) Mar.1991 Construction completed Mar.1991 OECF Loan Agreement (Ph-II) Dec.1991 Consulting Service Agreement</p> <p>(FY 1991 Overseas Survey) No additional information</p> <p>(FY 1992 Overseas Survey) Jun.1993 Detailed Design and start of construction due. Dec.1994 Implementation scheduled to be completed</p>															
5.TYPE OF STUDY	F/S																
6.COUNTERPART AGENCY	SLTD																
7.OBJECTIVES OF STUDY	Feasibility study on "Telecommunications Network Improvement Project in Greater Colombo" as an integral part of the National Development Plan.																
8.DATE OF S/W	Dec.1982	Imp. Period:	Aug.1986-Nov.1988														
9.CONSULTANT(S)	Nippon Telecommunication Consulting Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	EIRR1)	29.70	FIRR1)	15.20										
			Yes	EIRR2)		FIRR2)											
				EIRR3)		FIRR3)											
10.STUDY TEAM	No.of Members 15 Period Jan.1983-Nov.1983(11 months)	<p>Conditions and Development Impacts:</p> <p>Assumptions:</p> <p>1)The project life is set at 20 years after service-in. 2)The prices used in the financial analysis were converted to "the border price" by multiplying by the standard conversion factor. As for this project, the border prices happen to be the same as the domestic market prices. 3)Economic benefits consist of consumer's surplus and the operating revenues calculated in the financial analysis. Development Impacts: (1) Improvement of telecommunication service in the Metropolitan areas; (2)The greater ease of emergency access to medical institutions is conducive to protection and rescue of human lives; (3)Upgrading and diversification of government services including improvement of security; (4)Increased supply of information; (5)Activation of economic activities; (6) Creation of employment opportunity.</p>															
	Total M/M Japan Field 46.30 11.70 34.60																
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																	
12.EXPENDITURE	Total 117,636 (¥'000) Contracted 109,525	5.technical transfer	1) Joint preparation of the report; 2) On the job training (SLTD counterparts)														
		2.MAJOR REASONS FOR PRESENT STATUS															
		<p>High priority; This project is considered top priority by the Government of Sri Lanka.</p> <p>(FY 1992 Overseas Survey) The greater Colombo area is the center of political and economic activities in the country, and the outdated and insufficient telecommunications system had become a major bottleneck to overcome by the early 1980s.</p>															
		3.PRINCIPAL SOURCE OF INFORMATION															
		①②③															

和名 大コロンボ電気通信網整備計画

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

# PROJECT SUMMARY (M/P)

ASO LKA/S 101/85

Compiled Mar.1988  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS						
1.COUNTRY	Sri Lanka	1.SITE OR AREA	Whole country		1.PRESENT STATUS					
2.NAME OF STUDY	Master Plan for the Domestic Telecommunication Network	2.PROJECT COST	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 29,307 (US\$=26.00Rp) 2)		<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued					
3.SECTOR	Communications & Broadcasting/Telecommunication	3.CONTENTES OF MAJOR PROJECT(S)	(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.  Mar.1991 OECF Loan Agreement (Phase II, 10,968 million yen) Dec.1991 Consulting Service Agreement Jul.1995 Implementation scheduled to be completed  (FY 1993 Overseas Survey) No additional information							
4.REFERENCE NO.		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								
5.TYPE OF STUDY	M/P									
6.COUNTERPART AGENCY	Ministry of Posts and Telecommunications Development.									
7.OBJECTIVES OF STUDY	To study the Master Plan for telecommunications development in the year 2000.									
8.DATE OF S/W	Aug.1984	4.CONDITIONS AND DEVELOPMENT IMPACTS								
9.CONSULTANT(S)	Nippon Telecommunication Consulting Co., Ltd.	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.								
10.STUDY TEAM	No.of Members 12 Period Dec.1984-Oct.1985(11 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td></td> <td>28.22</td> <td>21.80</td> </tr> </tbody> </table>	Total M/M	Japan	Field		28.22	21.80			
Total M/M	Japan	Field								
	28.22	21.80								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY										
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>136,112 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>128,045</td> </tr> </tbody> </table>	Total	136,112 (¥'000)	Contracted	128,045	5.technical transfer	(1) Trainee acceptance: 3 counterparts invited Japan, and (2) On the job training (SLTD counterparts)			
Total	136,112 (¥'000)									
Contracted	128,045									
		3.PRINCIPAL SOURCE OF INFORMATION								
		①②④								
		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 (F/S)

ASO LKA/A 304/85

Compiled Mar. 1990

Revised Mar. 1993

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"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Rehabilitation of Tank Irrigation Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description)  (FY 1992 Overseas Survey) The project has been implemented by the OECF loan and the Japanese grant aid.  Jul.1988 OECF L/A signed (1,850 mil. yen) The loan covers the rehabilitation of main canals (73.3km) and roads, branch canals (90km) and roads, etc. Construction scheduled to be completed in 1994.  Apr.1989 Grant Aid E/N signed (449 mil. yen) Minipe and Nagadeepa rural developement Phase I: Improvement of roads and digging of wells Completed  Jun.1989 Grant Aid E/N signed (709 mil. yen) Phase II: Improvement of roads and digging of wells Completed	
3.SECTOR	Agriculture/Irrigation, Drainage & Reclamation	(US\$1,000)	16,830	9,370	7,460		
4.REFERENCE NO.		US\$1=27.5Rs					
5.TYPE OF STUDY	F/S						
6.COUNTERPART AGENCY	Ministry of Lands and Land Development	3.CONTENTS OF MAJOR PROJECT(S)	1.Canals System Main Canal 55.3km Branch Canal - D Canal 70.3km F Canal 42.0km Heen Ganqa Intake 7.4m(H) X 74m(L) 2.Road System Rehabilitation of Road 18.8km Bridge -				
7.OBJECTIVES OF STUDY	To stabilize agricultural products and increase incomes and living standard						
8.DATE OF S/W	Jun.1984	Imp. Period:					
9.CONSULTANT(S)	Japan Engineering Consultants Co., Ltd. kyowa Engineering Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1 17.10 EIRR2 EIRR3	FIRR1 FIRR2 FIRR3		
10.STUDY TEAM	No.of Members 10 Period Jan.1985-Mar.1986(15 months)  Total M/M Japan Field 50.29 18.33 31.96	Conditions and Development Impacts: Conditions: Agricultural products and farmers' income are expected to go up by (a) extending irrigation areas during the 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 the road system (b) ensuring proper operation and maintenance of the system					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					2.MAJOR REASONS FOR PRESENT STATUS		
12.EXPENDITURE	Total 198,301 (¥'000) Contracted 184,918	5.technical transfer	1.OJT 2.Acceptance of Trainees (1 person)			3.PRINCIPAL SOURCE OF INFORMATION ①③④	

## 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 Mar.1990  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS																
1.COUNTRY	Sri Lanka	1.SITE OR AREA	Gampaha district(1,600sq.km, 1.4 million population)		1.PRESENT STATUS															
2.NAME OF STUDY	Integrated Rural Development Project for Gampaha District	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>1)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>US\$1=28Rp.in 1987</td> <td>2)</td> <td>22,046</td> <td>512</td> <td>21,534</td> </tr> <tr> <td></td> <td></td> <td>10,710</td> <td></td> <td></td> </tr> </tbody> </table>		(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost	US\$1=28Rp.in 1987	2)	22,046	512	21,534			10,710			<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost																
US\$1=28Rp.in 1987	2)	22,046	512	21,534																
		10,710																		
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	(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  (FY 1992 Overseas Survey) A formal request for a project-type technical cooperation was made, and a pre-development study mission was dispatched in March 1993. A request for a Grant Aid was made in February 8 1993, for construction and renovation of bridges and improvement of link roads (A total cost of Rp. 370.4 mil.).																	
4.REFERENCE NO.		5.TYPE OF STUDY	M/P																	
6.COUNTERPART AGENCY	Ministry of Project Planning and Implementation	7.OBJECTIVES OF STUDY	District-wide integrated rural development																	
8.DATE OF S/W	Apr.1986	9.CONSULTANT(S)	Chuo Kaihatsu International Corp.  Sanyu Consultants Inc.																	
10.STUDY TEAM	No.of Members 13 Period Jul.1986-Mar.1987(9 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>54.27</td> <td>23.24</td> <td>31.03</td> </tr> </tbody> </table>	Total M/M	Japan	Field	54.27	23.24	31.03	4.CONDITIONS AND DEVELOPMENT IMPACTS	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)											
Total M/M	Japan	Field																		
54.27	23.24	31.03																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer	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)																	
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>168,183 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>146,293</td> <td></td> </tr> </tbody> </table>		Total	168,183 (¥'000)	Contracted	146,293		2.MAJOR REASONS FOR PRESENT STATUS	Project implementation is progressing smoothly. This is due to the fact that the understanding of affected residents was obtained during the master study phase, and that the project places emphasis on the rehabilitation of existing structures.											
	Total	168,183 (¥'000)																		
Contracted	146,293																			
		3.PRINCIPAL SOURCE OF INFORMATION	①②③																	

和名 ガンパハ県農業総合開発計画

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

# PROJECT SUMMARY (M/P)

ASO LKA/A 102/89

Compiled Mar.1991  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS 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												
2.NAME OF STUDY	Sand Drift in the Southeastern Coast	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>14,437</td> <td></td> <td>14,437</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	14,437		14,437	2)				<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
(US\$1,000)	Total Cost	Local Cost	Foreign Cost														
1)	14,437		14,437														
2)																	
3.SECTOR	Fisheries/Fisheries	3.CONTENTES OF MAJOR PROJECT(S)	(Description) The following study on the basic design for the project for rehabilitation of the Kirinda Fisheries Harbour.														
4.REFERENCE NO.		Extension of Main Breakwater 200m	(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.														
5.TYPE OF STUDY	M/P	Improvement of Existing Main Breakwater 100m															
6.COUNTERPART AGENCY	Ministry of Fisheries and Aquatic Resources Executing Agency:Ceylon Fishery Harbours Corporation	Construction of Sub-breakwater 230m															
7.OBJECTIVES OF STUDY	Countermeasure for Siltation	Construction of Jetty 200m															
8.DATE OF S/W	Oct.1987	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.														
9.CONSULTANT(S)	Nippon Tetrapod Co., Ltd.		<1991 Overseas Survey> No additional information.														
10.STUDY TEAM	No.of Members 6 Period Mar.1988-Dec.1989(16.5 months)		2.MAJOR REASONS FOR PRESENT STATUS														
	<table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>29.73</td> <td>16.81</td> <td>12.92</td> </tr> </tbody> </table>	Total M/M	Japan	Field	29.73	16.81	12.92										
Total M/M	Japan	Field															
29.73	16.81	12.92															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Sounding, Topographical survey/Observation of Meteorology and Hydrographic Conditions/Hydraulic model test	5.technical transfer	3.PRINCIPAL SOURCE OF INFORMATION														
12.EXPENDITURE	<table border="1"> <tbody> <tr> <td>Total</td> <td>224,515 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>203,563</td> </tr> </tbody> </table>	Total	224,515 (¥'000)	Contracted	203,563	-Training and study in Japan(1 person) -Guidance about using survey materials and a new method of investigation in Sri Lanka		①②③									
Total	224,515 (¥'000)																
Contracted	203,563																

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)

ASO LKA/S 202A/89

Compiled Mar.1991  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS 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.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    478,534 2)    409,376	(Description) Oct. 1989    OECF loan agreement on Jaye Container Terminal No.3 Oct. 1991    Construction work of JCT No.3 was commenced Sep. 1991    Appraisal Mission for No.4 Berth will be dispatched  (FY 1991 Overseas Survey) No additional information  (FY 1992 Overseas Survey) 1)JCT No.3 is scheduled to be completed in 1994. The other projects are under progress as follows. 2)JCT No.4 and communications system: under construction 3)Rehabilitation of Queen Elizabeth Quay: completed 4)Pipe laying and dredging: scheduled to be implemented 5)New North Pier: in progress							
3.SECTOR	Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)									
4.REFERENCE NO.		The Study proposed two alternatives of the Master Plan for the Port of Colombo. Plan A: Cost 1)    Plan B: Cost2) 1)New North Pier    -11m x 210m    - No.3 Berth    -7.5m x 130m    - No.4 Berth    o    - 2)Port container terminal    o    - 3)New Queen Elizabeth Container Terminal (NQECT) No.1 Berth    -14 x 350m    -14 x 340m No.2 Berth    -14 x 350m    -14 x 330m No.3 Berth    -12 x 300m    -12 x 330m 4)Extension of SW breakwater (550m)    o    - 5)New SW breakwater (510m)    -    o 6)Re-alignment of main entrance channel    o    o 7)Computer communication    o    o 8)Port highway system    o    o									
5.TYPE OF STUDY	M/P+ (F/S)										
6.COUNTERPART AGENCY	Sri Lanka Ports Authority										
7.OBJECTIVES OF STUDY	F/S, M/P, & ST/P										
8.DATE OF S/W	Mar.1988										
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Japan Port Consultants Co., Ltd.	4.CONDITIONS AND DEVELOPMENT IMPACTS									
		Conditions: The relative importance of the Port of Colombo in the international transportation network of container cargo will not change significantly in the foreseeable future. The additional development after the present development plan will have to be determined by taking into account the planned development of the Port of Galle.  Development Impacts: 1. Increased foreign exchange earnings from handling more transshipment container cargo 2. Activation of international trade in Sri Lanka and neighboring countries 3. Improved reliability of the port of Colombo									
10.STUDY TEAM	No.of Members    10 Period    Nov.1988-Nov.1989(13 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>52.66</td> <td>28.19</td> <td>24.47</td> </tr> </tbody> </table>	Total M/M	Japan	Field	52.66	28.19	24.47			2.MAJOR REASONS FOR PRESENT STATUS	
Total M/M	Japan	Field									
52.66	28.19	24.47									
				- Good Coordination Among Concerned Agencies - The project was commenced on good timing for adapting to the change of containerization in the world.							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Boring, Topographic Survey, Bathymetric Survey			3.PRINCIPAL SOURCE OF INFORMATION							
		5.technical transfer		①②							
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>175,721 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>176,480</td> </tr> </tbody> </table>	Total	175,721 (¥'000)	Contracted	176,480	On-the-Job training JICA counterpart training					
Total	175,721 (¥'000)										
Contracted	176,480										

和名 コロンボ港開発計画

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



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

ASO LKA/S 202B/89

Compiled Mar.1991  
Revised Mar.1993

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																		
2.NAME OF STUDY	Development of the Port of Colombo	2.PROJECT COST	<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>257,849</td> <td>42,117</td> <td>215,732</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)	257,849	42,117	215,732	2)				3)			
	Total Cost	Local Cost	Foreign Cost																		
1) (US\$1,000)	257,849	42,117	215,732																		
2)																					
3)																					
3.SECTOR	Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)	<p>1)Jaye Container Berth (JCT) JCT No.3 Berth (length 330m, depth -13.5m, planned capacity 300,000TEUs, stacking yards 6,300TEUs) JCT No.4 Berth (length 360m, depth -13.5m, planned capacity 300,000TEUs, stacking yards 6,150TEUs, feeder berth -9.0m x 170m) Gantry cranes(Post Panamax):2 units, High speed transfer cranes:6units 2)New North Pier (NMP) NMP No.1 Berth: -7.5m x 130m, Warehouse: 40m x 160m NMP No.2 Berth: -11.0m x 210m, Warehouse: 40m x 160m 3)Pipe line for the new oil terminal: 700m 4)Rehabilitation of Queen Elizabeth Quay: No.4 and No. 5 Berths 5)Additional Transfer Cranes for JCT No.1 and No.2 Berths 6)Dredging: inside the port -13.5m, main channel -15.0m 7)Improvement of the telecommunication system</p>																		
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>21.40</td> <td>8.70</td> </tr> <tr> <td></td> <th>EIRR2</th> <th>FIRR2</th> </tr> <tr> <td></td> <th>EIRR3</th> <th>FIRR3</th> </tr> </tbody> </table>			Feasibility:	EIRR1	FIRR1	Yes	21.40	8.70		EIRR2	FIRR2		EIRR3	FIRR3				
Feasibility:	EIRR1	FIRR1																			
Yes	21.40	8.70																			
	EIRR2	FIRR2																			
	EIRR3	FIRR3																			
5.TYPE OF STUDY	(M/P)+F/S	<p>Conditions and Development Impacts: (Conditions) The political stability of Sri Lanka will be improved and the implementation of the project will be assured. A cost-benefit analysis is conducted on the difference between the with-case in which an investment is made and the without-case in which no investment is made, that is, the benefits and costs arising from the proposed investment are compared. (Development impacts) 1) Increased handling of container cargo transshipments 2) Reduction of transport costs 3) Increased foreign exchange earnings 4) Activation of international trade in Sri Lanka and neighboring countries 5) Promotion of export processing industries around the Port of Colombo</p>																			
6.COUNTERPART AGENCY	Sri Lanka Ports Authority	<p>10.STUDY TEAM</p> <p>No.of Members 10 Period Nov.1988-Nov.1989(13 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>52.66</td> <td>28.19</td> <td>24.47</td> </tr> </tbody> </table>				Total M/M	Japan	Field	52.66	28.19	24.47										
Total M/M	Japan	Field																			
52.66	28.19	24.47																			
7.OBJECTIVES OF STUDY	F/S, M/P, & ST/P	<p>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</p> <p>Boring, Topographic Survey Bathymetric Survey</p>																			
8.DATE OF S/W	Mar.1988	<p>12.EXPENDITURE</p> <table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td></td> <td>175,721 (¥'000)</td> <td>176,480</td> </tr> </tbody> </table>					Total	Contracted		175,721 (¥'000)	176,480										
	Total	Contracted																			
	175,721 (¥'000)	176,480																			
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Japan Port Consultants Co., Ltd.	<p>5.technical transfer</p> <p>On-the-Job training JICA counterpart training</p>																			
		<p>1.PRESENT STATUS</p> <p> <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         </p> <p>(Description)</p> <p>Oct. 1989 OECF loan agreement on Jaya Container Terminal No.3 (6,200 million yen) Mar. 1990 OECF loan agreement (Phase 1 6,329 million yen) Oct. 1991 Construction work of JCT No.3 was commenced Dec. 1991 Appraisal Mission for JCT No.4 berth will be dispatched</p> <p>(FY 1991 Overseas Survey) 1991 Construction was commenced. 1993 Construction is planned to be completed.</p> <p>(FY 1992 Overseas Survey) 1) JCT No.3 is scheduled to be completed in 1994. The other projects are under progress as follows. 2) JCT No.4 and communications system: under construction 3) Rehabilitation of Queen Elizabeth Quay: completed 4) Pipe laying and dredging: scheduled to be implemented 5) New North Pier: in progress</p>																			
		<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>The project was commenced on good timing for adapting to the change of containerization in the world</p>																			
		<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②④</p>																			

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 Mar. 1991  
Revised Mar. 1993

[illegible]

和名 モラガハカンダ農業開発計画

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

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

ASO LKA/A 201B/89

Compiled Mar.1991  
Revised Mar.1993

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														
2.NAME OF STUDY	Extension of the Moragahakanda Agricultural Development Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>310,000</td> <td>105,500</td> <td>204,500</td> </tr> <tr> <td>US\$1 = 15.0Rs</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	310,000	105,500	204,500	US\$1 = 15.0Rs			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	310,000	105,500	204,500														
US\$1 = 15.0Rs																	
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)	<p>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 system is as follows:</p> <ul style="list-style-type: none"> <li>- Rehabilitation of irrigation canal 60km</li> <li>- New Construction of irrigation canal 120km</li> <li>- New construction of O/M roads 150km</li> <li>- Downstream land development 13,900ha</li> <li>- Drainage canal 90km</li> </ul>														
4.REFERENCE NO.		<p>(Description)</p> <p>The Government of Sri Lanka may request the project on loan basis to Japanese Government.</p> <p>(FY1992 Overseas Survey)</p> <p>Oct.1. 1992 Fund proposal to Ministry of Finance</p>															
5.TYPE OF STUDY	(M/P)+F/S																
6.COUNTERPART AGENCY	Mahaweli Development Board																
7.OBJECTIVES OF STUDY	Updating of the previous Feasibility Study made in 1979																
8.DATE OF S/W	Oct.1987	Imp. Period:															
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Japan Engineering Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 9.30 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)												
10.STUDY TEAM	<p>No.of Members 9</p> <p>Period Jan.1988-May.1988(5 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>21.33</td> <td>6.45</td> <td>14.88</td> </tr> </tbody> </table>	Total M/M	Japan	Field	21.33	6.45	14.88	<p>Conditions and Development Impacts:</p> <p>Increasing agricultural production and creating employment opportunities in the Amban Ganga river basin.</p> <p>Expansion of planted area:</p> <ul style="list-style-type: none"> <li>Paddy:38,130 ha</li> <li>Sweet potato, coarse cereals:1,550 ha</li> <li>Vegetables including onion:9,000 ha</li> </ul> <p>Increase in unit yields</p> <ul style="list-style-type: none"> <li>Paddy: 2.8-1.6 ton/ha</li> <li>Onion: 5.0 ton/ha</li> <li>Chilli: 0.4 ton/ha</li> <li>Sugar cane: 46 ton/ha</li> </ul> <p>Benefited Population would be about 180,000</p>									
Total M/M	Japan	Field															
21.33	6.45	14.88															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		<p>5.technical transfer</p> <p>Transfer technology to counterpart in the course of the Study.</p>															
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td></td> <td>220,970 (¥'000)</td> <td>213,902</td> </tr> </tbody> </table>						Total	Contracted		220,970 (¥'000)	213,902						
	Total	Contracted															
	220,970 (¥'000)	213,902															
		<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <ol style="list-style-type: none"> <li>Priority decreased: New government in 1989 placed Janasabia-Plan as significant task in policy. The content of plan: To give Rp 2,200 per month to poverty.</li> <li>Since 1989 structural adjustment proposed by World Bank and IMF has been implemented.</li> </ol>															
		<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②③</p>															

和名 モラガハカング農業開発計画

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

# PROJECT SUMMARY (M/P)

Compiled Mar.1993  
Revised

ASO LKA/S 102/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Sri Lanka	1.SITE OR AREA	Port of Galle	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 Galle	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    592,000 (US\$1=Rs41)    2)	(Description)  In this study, the urgent plan (breakwater 350m) was formulated. After the completion of this study, the implementation of that was requested from Sri Lanka Government. If the breakwaters are constructed, the SLPA says that a foreign shipping line will call at the Port of Galle.							
3.SECTOR	Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)									
4.REFERENCE NO.		Master Plan: (1) Southwest Breakwater: 1,500m (protection from SW Monsoon)									
5.TYPE OF STUDY	M/P	(2) Container Terminal: 3 berths (-14m, 1,090m), container yard (2,200 slots) Cargo handling machinery (container cranes, transainers, tractor trailers), other related facilities and buildings									
6.COUNTERPART AGENCY	Sri Lanka Ports Authority	(3) General/Bulk Cargo: 2 berths (-14m x 270m, and -12m x 240m), storage sheds, handling machinery (unloaders, belt conveyors, forklifts)		2.MAJOR REASONS FOR PRESENT STATUS							
7.OBJECTIVES OF STUDY	1. F/S formulated with a target year of 1997 2. Technical transfer to the counterparts	(4) Bunker Oil Berth: 1 Dolphin-type berth (-7.5m x 120m)									
8.DATE OF S/W	Apr.1990	4.CONDITIONS AND DEVELOPMENT IMPACTS									
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Japan Port Consultants Co., Ltd.	Development impacts: 1) It will enable the direct access to foreign markets from the southern region (e.g., Galle, Matara and Hambantota), contributing to the restructuring and rational function arrangement of Sri Lanka Ports. 2) It will relieve the crowdedness of the Port of Colombo and meet future demands. 3) It will decrease the traffic load of the National Road A2 (from Colombo to Hambantota via Galle) and the coastal railroad, meeting the increase of traffic demands and motorization. 4) It will develop benefits to container with the improvement of service standards and cost conditions for the shippers and consignees in the hinterland of Galle. 5) The functions of international shipping base of the port of Galle will promote the regional economy. 6) It will be conducive to the development of Kegalla export processing district in the Galle region. The port development will increase the number and production of factories in the Kegalla region. 7) It will build a development core in the southern region, activating the economy through industrialization. Especially the development of cement factories in behind the port and milling factories close to the port will proceed in the future. 8) The agriculture in the southern region will be favorably influenced from the cost reduction of inland transportation compared with the case of using the Port of Colombo. 9) The port construction and management along with regional industrial development will increase employments and income level in the region.									
10.STUDY TEAM	No.of Members    10 Period    Sep.1990-Nov.1991 (13 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>68.72</td> <td>39.65</td> <td>29.07</td> </tr> </tbody> </table>	Total M/M	Japan	Field	68.72	39.65	29.07	5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION  ①②	
Total M/M	Japan	Field									
68.72	39.65	29.07									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Bathymetric Survey Topographic Survey Boring	Through discussion with counterparts, technical transfer was conducted by transmitting the method of development planning, calmness analysis and so on.									
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>232,251 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>226,013</td> </tr> </tbody> </table>	Total	232,251 (¥'000)	Contracted	226,013						
Total	232,251 (¥'000)										
Contracted	226,013										

和名 ゴール港整備計画

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

# PROJECT SUMMARY (F/S)

ASE THA/S 301/76

Compiled Mar.1988  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT						
1.COUNTRY	Thailand	1.SITE OR AREA	Southern line 1,159 km 110 bridges Northern line 751 km 22 bridges Northeastern line 1,205 km 45 bridges		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	Project of Strengthening and / or Replacement of Steel Bridges on the State Railway	2.PROJECT COST	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 16,683 (US\$1=20Bahts) 2) 3)							
3.SECTOR	Transportation/Railway	3.CONTENTES OF MAJOR PROJECT(S)	Of the 214 spans: 197 spans are to be repaired and strengthened. 17 spans are to be replaced with the construction of new bridges * Below implementation period is 5 years.		(Description) The project has been under implementation by the government funds since 1979. Based on the recommendations of the study, 104 bridges have been strengthened so far. 17 of them were replaced by steel bridges. Furthermore, additional 37 bridges have been under various stages of implementation by the national budgets during 1987 and 1991. The remaining 25 are expected to be built after 1992.  (FY 1991 Overseas Survey) The strengthening works on the eastern line is not concluded yet, because the traffic density remains low. Construction of other parts will be finished in 1993.					
4.REFERENCE NO.										
5.TYPE OF STUDY	F/S									
6.COUNTERPART AGENCY	State Railway of Thailand									
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									
8.DATE OF S/W	Oct.1975	Imp. Period:								
9.CONSULTANT(S)	Japan Railway Technical Service	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No EIRR1 EIRR2 EIRR3	FIRR1 FIRR2 FIRR3						
		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.							
10.STUDY TEAM	No.of Members 17 Period Jan.1976-Nov.1976(10 months)  <table border="1"> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> <tr> <td>87.27</td> <td>66.60</td> <td>20.67</td> </tr> </table>	Total M/M	Japan	Field	87.27	66.60	20.67		2.MAJOR REASONS FOR PRESENT STATUS	
Total M/M	Japan	Field								
87.27	66.60	20.67								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY										
12.EXPENDITURE	Total 106,843 (¥'000) Contracted 108,230	5.technical transfer	Investigations were conducted with the cooperation of counterparts. Methodology training for strengthening steel bridges in Japan (5 trainees).		3.PRINCIPAL SOURCE OF INFORMATION ①②					

和名 鉄道橋梁改良計画

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

# PROJECT SUMMARY (F/S)

ASE THA/A 301/77

Compiled Mar.1990  
Revised Mar.1993

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 COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>36,200</td> <td>17,640</td> <td>18,560</td> </tr> <tr> <td>US\$1=20B in 1985</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	36,200	17,640	18,560	US\$1=20B in 1985			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	36,200	17,640	18,560														
US\$1=20B in 1985																	
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	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:30km/494km Main street/farm road : 177km/404km Village water supply : 4 places * Above project costs are in 1985 prices.														
4.REFERENCE NO.																	
5.TYPE OF STUDY	F/S																
6.COUNTERPART AGENCY	Agricultural Land Reform Office, Ministry of Agriculture and Cooperative																
7.OBJECTIVES OF STUDY																	
8.DATE OF S/W	.0	Imp. Period:	Oct.1977-Sep.1983														
9.CONSULTANT(S)	Sanyu Consultants Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>16.00</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </tbody> </table>			Feasibility:	EIRR1)	16.00	FIRR1)	Yes	EIRR2)		FIRR2)		EIRR3)		FIRR3)
Feasibility:	EIRR1)	16.00	FIRR1)														
Yes	EIRR2)		FIRR2)														
	EIRR3)		FIRR3)														
10.STUDY TEAM	No.of Members 10 Period Oct.1976-Jul.1977(10 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total M/M	Japan	Field				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	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 type="checkbox"/> Processing								
Total M/M	Japan	Field															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer	(Description) 1979.6.14 OECF L/A signed (E/S, 150 million yen) 1979.6-1982.2 Detail design undertaken (Sanyu Consultants Inc.) 1982.7.16 9th OECF L/A signed (2.65 billion yen) Of which, construction equipment 2.02 billion yen consultation service 390 million yen contingency 240 million yen 1982.6 Construction started 1988.7 Yen loan expired. Construction continued by ALRO.  (FY 1991 Overseas Survey) Construction completed in 1990 by the OECF loan.  OECF Loan: - Circle embankment - Pump stations - Irrigation and drainage canals - On-farm development (tertiary irrigation and drainage canals and farm roads) - Rehabilitation and improvement of rural roads and bridges.														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>86,198 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>80,831</td> </tr> </tbody> </table>		86,198 (¥'000)	Total		Contracted	80,831	Training in Japan (6 trainees)	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 been completed.								
	86,198 (¥'000)																
Total																	
Contracted	80,831																
			3.PRINCIPAL SOURCE OF INFORMATION ①②③														

和名 チャオピヤ川西岸地区かんがい農業開発計画

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

## PROJECT SUMMARY (D/D)

Compiled Mar. 1990  
Revised Mar. 1992

ASE THA/S 401/77

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="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled						
2.NAME OF STUDY	Bangkok Telephone Network Project : Junction Lines	Bangkok Metropolitan Area											
3.SECTOR	Communications & Broadcasting/Telecommunication	2.PROJECT COST				(Description)							
4.REFERENCE NO.		Total Cost      Local Cost      Foreign Cost (US\$1,000)      1) 2) 3)											
5.TYPE OF STUDY	D/D	3.CONTENTS OF MAJOR PROJECT(S)											
6.COUNTERPART AGENCY	Telephone Organization of Thailand (TOT)	Contents      Scale Construction of Junction cable      250,000 Pair-km											
7.OBJECTIVES OF STUDY	D/D of junction cable network and five local cable networks												
8.DATE OF S/W	Feb.1977	Imp. Period:				The project was completed with the OECF loan.  Jul. 1978 OECF loan agreement (1,464 million yen)							
9.CONSULTANT(S)	Nippon Telecommunication Consulting Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)								
		Conditions and Development Impacts: -To full of demand in site area -This project come under construction of junction network for 3rd M/P Package 1, Phase 1											
10.STUDY TEAM						2.MAJOR REASONS FOR PRESENT STATUS							
No.of Members    13 Period May.1977-Feb.1978(9 months)  <table border="0"> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> <tr> <td></td> <td>29.73</td> <td>70.77</td> </tr> </table>		Total M/M	Japan	Field		29.73	70.77					Telephone demand in the metropolitan area is urgent.	
Total M/M	Japan	Field											
	29.73	70.77											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY													
12.EXPENDITURE		5.technical transfer				3.principal source of information							
Total      260,588 (¥000) Contracted      251,129		Many counterparts engineers participated in preparation of D/D				①④							

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 Mar.1986  
Revised Mar.1993

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								
2.NAME OF STUDY	Separate System of Metropolitan Water Supply in Bangkok	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost						
		(US\$1,000)	73,121								
3.SECTOR	Public Utilities/Water Supply	3.CONTENTES OF MAJOR PROJECT(S)	<p>1. Project: Separate System of Metropolitan Water Supply Project surrounding Bangkok</p> <p>2. Area: The 9 Amephoes surrounding Bangkok city and the related housing and industrial project areas (168sq.km)</p> <p>3. Target year: Completion set at 2000 (Start to work in 1982)</p> <p>4. Water source: 8 Amphoes (excluding Nong Khaem) and Bang Chan from groundwater. The others from Central System.</p> <p>5. Groundwater: 33 Deep Wells built in 9 areas.</p>								
4.REFERENCE NO.											
5.TYPE OF STUDY	F/S										
6.COUNTERPART AGENCY	Metropolitan Water Works Authority										
7.OBJECTIVES OF STUDY	Water Service plan										
8.DATE OF S/W	Jan.1977	Imp. Period:	.1981-.2000								
9.CONSULTANT(S)	Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)						
10.STUDY TEAM	<p>No.of Members 14</p> <p>Period May.1977-Jul.1978 (15 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>24.30</td> <td>7.20</td> <td>17.10</td> </tr> </tbody> </table>	Total M/M	Japan	Field	24.30	7.20	17.10	<p>Conditions and Development Impacts:</p> <p>Conditions:</p> <p>1. Population density in served area: 1,500/sq.km (minimum)</p> <p>2. Population in served area: 363,900 (in 2000)</p> <p>3. House connection ratio: 75% (in 2000)</p> <p>4. Daily max. demand: 77,800cu.m</p> <p>Development impacts</p> <p>1. Supply of clean water</p> <p>2. Rational system realized</p> <p>This plan was independent system; but will be advanced in connection with existing Central Water Supply System in Bangkok city.</p>			
Total M/M	Japan	Field									
24.30	7.20	17.10									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer	<p>- Overseas training for counterpart staff</p> <p>- Inspection of water purification plant</p>								
12.EXPENDITURE	<p>Total 143,869 (¥'000)</p> <p>Contracted 44,780</p>										
		<p>1.PRESENT STATUS</p> <p> <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         </p> <p>(Description)</p> <p>The project was completed by the OECF financing.</p> <p>Jun.1979 OECF L/A signed (8,400 million yen)</p> <p>Sep.1984 OECF L/A signed (10,710 million yen) Completed in 1989</p> <p>Oct.1985 OECF L/A signed (2,985 million yen) Completed in 1989</p> <p>Nov.1988 OECF L/A signed (4,380 million yen) To be completed in June 1993</p> <p>Sep.1991 OECF L/A signed (8,638 million yen) Scheduled to be completed in Aug. 1995</p>									
		2.MAJOR REASONS FOR PRESENT STATUS									
		3.PRINCIPAL SOURCE OF INFORMATION									
		①④									

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)

ASE THA/S 305/78

Compiled Mar.1986  
Revised Mar.1993

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														
2.NAME OF STUDY	Phetchabun - Chai Badan Highway Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>16,600</td> <td>9,400</td> <td>7,200</td> </tr> <tr> <td>(US\$1=20Bahts)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	16,600	9,400	7,200	(US\$1=20Bahts)			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	16,600	9,400	7,200														
(US\$1=20Bahts)																	
3.SECTOR	Transportation/Road	3.CONTENTES OF MAJOR PROJECT(S)	Three Alternatives of route: I Improvement of local community II New land development III Improvement of transportation 1. Optimal route (I+II) Tha Maduk - Rang Yoi - Si Thep - Wichian Buri - Sap Bon - Nong Daeng - Pak Bot - Noen Sadao - Khok Charoen - Yang Lat - Tham Nam Bang - Nam Ron - Phetchabun 2. Road length 1) Improvement 130.1 km (85%) 2) New construction 21.2 km (15%) Total 151.3 km 3. Pavement type 1) SBST (asphalt) 94.2 km (62%) 2) Laterite 57.1 km (38%) Total 151.3 km 4. Road width 1) Formation width 9.0 m 2) Pavement width 5.5 m														
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes EIRR1) 20.40 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)														
5.TYPE OF STUDY	F/S	Conditions and Development Impacts:		1) PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="radio"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="radio"/> Processing (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 (FY 1991 Overseas Survey) No additional information. (FY 1992 Overseas Survey) 1,366 million yen was appropriated for this project from the OECF loan. The total cost for the project was 171.42 million bahts. The construction was started in June 1981 for the Yang Lat-Phechabun route and was completed in September 1981 for Sithep-Wichian Buri route. The total length was 149.2 km.													
6.COUNTERPART AGENCY	Department of Highway	Traffic forecast 1) Passenger traffic forecasted by trip rates obtained from a home interview survey and projected population increase. 2) Freight traffic forecasted by transportation demand of agricultural products.															
7.OBJECTIVES OF STUDY	Road Construction	Development impacts:		2.MAJOR REASONS FOR PRESENT STATUS													
8.DATE OF S/W	Feb.1978	<table border="1"> <thead> <tr> <th></th> <th>1983</th> <th>1989</th> <th>1997</th> </tr> </thead> <tbody> <tr> <td>1. Benefits (million baht)</td> <td>47.8</td> <td>55.3</td> <td>62.4</td> </tr> <tr> <td>2. Incremental net added value of agricultural products</td> <td>15.2</td> <td>51.0</td> <td>46.3</td> </tr> </tbody> </table>					1983	1989	1997	1. Benefits (million baht)	47.8	55.3	62.4	2. Incremental net added value of agricultural products	15.2	51.0	46.3
	1983	1989	1997														
1. Benefits (million baht)	47.8	55.3	62.4														
2. Incremental net added value of agricultural products	15.2	51.0	46.3														
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Katahira & Engineers International	10.STUDY TEAM		3.PRINCIPAL SOURCE OF INFORMATION													
No.of Members 12 Period Mar.1978-Mar.1979(9 months) <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>44.33</td> <td>26.33</td> <td>18.00</td> </tr> </tbody> </table>		Total M/M	Japan			Field	44.33	26.33	18.00	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
Total M/M	Japan	Field															
44.33	26.33	18.00															
12.EXPENDITURE	Total 108,742 (¥'000) Contracted 101,688	5.technical transfer															

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)

ASE THA/S 304/78

Compiled Mar.1986  
Revised Mar.1993

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																	
2.NAME OF STUDY	Rural Long Distance Public Telephone Service	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>385,008</td> <td>54,618</td> <td>330,390</td> </tr> <tr> <td>(US\$1=180Yen)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	385,008	54,618	330,390	(US\$1=180Yen)						
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	385,008	54,618	330,390																	
(US\$1=180Yen)																				
3.SECTOR	Communications & Broadcasting/Telecommunication	3.CONTENTS OF MAJOR PROJECT(S)	<p>1. Installation of telephones 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. Telephone exchanges in 18 districts in 1989, and in 187 more districts in 1994.</p> <p>2. Transmission system: Terrestrial transmission system UHF (900 MHz band)</p> <p>3. Modulation system No much difference between FDM and PCM system from technical and economic viewpoints</p> <p>4. Equipment shelter Communication equipment station inclusive of power plant: This is to reduce construction cost and civil work period to the possible minimum.</p> <p>5. System maintenance The existing maintenance organization and practices can be applied to each Maintenance Center by increasing maintenance staffs to some extent when this project is completed. At the same time, it is desirable to introduce centralized supervisory system at each Maintenance Center so that it can have troubles at supervised stations under its control automatically recorded.</p>																	
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>11.30</th> <th>FIRR1)</th> <th>18.22</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> <td></td> </tr> </tbody> </table>			Feasibility:	EIRR1)	11.30	FIRR1)	18.22	Yes/No	EIRR2)		FIRR2)			EIRR3)		FIRR3)	
Feasibility:	EIRR1)	11.30	FIRR1)	18.22																
Yes/No	EIRR2)		FIRR2)																	
	EIRR3)		FIRR3)																	
5.TYPE OF STUDY	F/S	<p>Conditions and Development Impacts:</p> <p>Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>1984</th> <th>1989</th> <th>1994</th> </tr> </thead> <tbody> <tr> <td>1. Forecasted circuit requirements</td> <td>2,513</td> <td>3,763</td> <td>8,218</td> </tr> </tbody> </table> <p>2. Alternative proposal 1) Two terrestrial radio system 2) One domestic satellite system</p> <p>Development impacts:</p> <ol style="list-style-type: none"> <li>Connection to the national network</li> <li>Increase in the quality of telecommunication</li> <li>Public telecommunication services for 469 sites where telephone service is unavailable.</li> </ol>					1984	1989	1994	1. Forecasted circuit requirements	2,513	3,763	8,218							
	1984	1989	1994																	
1. Forecasted circuit requirements	2,513	3,763	8,218																	
6.COUNTERPART AGENCY	Telephone Organization of Thailand	<p>10.STUDY TEAM</p> <p>No.of Members 6</p> <p>Period Aug.1978-Mar.1979(8 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>27.03</td> </tr> </tbody> </table>				Total M/M	Japan	Field			27.03									
Total M/M	Japan	Field																		
		27.03																		
7.OBJECTIVES OF STUDY	To recommend the optimum transmission system to TOT.	<p>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</p>																		
8.DATE OF S/W	Jul.1979	<p>5.technical transfer</p> <p>(1) Trainee acceptance; 2 engineer(TOT) invited to Japan (2) On the Job Training(TOT counterparts)</p>																		
9.CONSULTANT(S)	Nippon Telecommunication Consulting Co., Ltd.	<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①④</p>																		
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>75,078 (¥000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>79,180</td> </tr> </tbody> </table>		75,078 (¥000)	Total		Contracted	79,180	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>High priority: The project was realized by the strong request from the King.</p>												
	75,078 (¥000)																			
Total																				
Contracted	79,180																			

和名 長距離市外電話網

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

# PROJECT SUMMARY (F/S)

ASE THA/S 302/78

Compiled Mar.1986  
Revised Mar.1992

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														
2.NAME OF STUDY	Pattaya Tourism Development	2.PROJECT COST	<table border="1"> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> <tr> <td>(US\$1,000)</td> <td>368,000</td> <td>193,000</td> <td></td> </tr> <tr> <td>(US\$1=20Bahts)</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	368,000	193,000		(US\$1=20Bahts)			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	368,000	193,000															
(US\$1=20Bahts)																	
3.SECTOR	Tourism/General	3.CONTENT OF MAJOR PROJECT(S)	-Infrastructure -Water supply and sewerage -Water drainage system -Solid waste management -Road, power, communication -Port														
4.REFERENCE NO.		(Description) The project is under construction with government funds.  (FY 1991 Overseas Survey) The Thai Government (National Economic and Social Development Board) applied for an OECF Loan in 1979 but was not accepted. A new local administrative office was established according to the new development plan and the new detailed design prepared by the Department of Town and Country Planning.  The project has been revived in a new JICA study "Pattaya Tourism Development."															
5.TYPE OF STUDY	F/S																
6.COUNTERPART AGENCY	Dept. of Tourism																
7.OBJECTIVES OF STUDY	Establishment plan of infrastructure for tourism																
8.DATE OF S/W	Nov.1976	Imp. Period:	.1977-.1996														
9.CONSULTANT(S)	Pacific Consultants International Nippon Tetrapod Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	<table border="1"> <tr> <td>EIRR1</td> <td>26.00</td> <td>FIRR1</td> </tr> <tr> <td>EIRR2</td> <td></td> <td>FIRR2</td> </tr> <tr> <td>EIRR3</td> <td></td> <td>FIRR3</td> </tr> </table>		EIRR1	26.00	FIRR1	EIRR2		FIRR2	EIRR3		FIRR3			
EIRR1	26.00	FIRR1															
EIRR2		FIRR2															
EIRR3		FIRR3															
10.STUDY TEAM		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.															
No.of Members 12 Period Dec.1976-Dec.1977(12 months)  <table border="1"> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> <tr> <td>118.13</td> <td>88.73</td> <td>29.40</td> </tr> </table>		Total M/M	Japan	Field	118.13	88.73	29.40	2.MAJOR REASONS FOR PRESENT STATUS									
Total M/M	Japan	Field															
118.13	88.73	29.40															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		- Good financial condition - High priority															
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION															
<table border="1"> <tr> <th></th> <th>Total</th> <th>335,524 (¥'000)</th> </tr> <tr> <td>Contracted</td> <td>206,380</td> <td></td> </tr> </table>			Total	335,524 (¥'000)	Contracted	206,380		①②									
	Total	335,524 (¥'000)															
Contracted	206,380																
5. TECHNICAL TRANSFER		Overseas training for 6 trainees															

和名 パタヤ地区基盤整備計画

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

# PROJECT SUMMARY (M/P)

Compiled Mar.1986  
Revised Mar.1992

ASE THA/S 101/79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Thailand	1.SITE OR AREA	Bangkok Metropolitan 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	Bangkok Suburban Transportation Project	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    834,400 (US\$1=260Yen)    2)	(Description) The project proposed by the study was not included in the Sixth National Development Plan. No progress was made in upgrading the railway service in downtown Bangkok.  (FY 1991 Overseas Survey) The project was integrated in the Infrastructure Section of the Seventh National Economic and Social Development Plan.							
3.SECTOR	Transportation/Railway	3.CONTENTS OF MAJOR PROJECT(S)									
4.REFERENCE NO.		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.									
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)			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.							
7.OBJECTIVES OF STUDY	Transportation Plan	4.CONDITIONS AND DEVELOPMENT IMPACTS									
8.DATE OF S/W	Jul.1978	Beneficial effect: alleviation of traffic congestion in downtown and surrounding areas									
9.CONULTANT(S)	Pacific Consultants International										
10.STUDY TEAM	No.of Members    7 Period Oct.1978-Aug.1979(11 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>46.57</td> <td>35.50</td> <td>11.07</td> </tr> </tbody> </table>	Total M/M	Japan	Field	46.57	35.50	11.07			3.PRINCIPAL SOURCE OF INFORMATION ①②	
Total M/M	Japan	Field									
46.57	35.50	11.07									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY											
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>(¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>90,378</td> </tr> <tr> <td>Contracted</td> <td>85,377</td> </tr> </tbody> </table>		(¥'000)	Total	90,378	Contracted	85,377	5.technical transfer	Training in Japan		
	(¥'000)										
Total	90,378										
Contracted	85,377										

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 Mar.1990  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS 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.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>441,300</td> <td>264,780</td> <td>176,520</td> </tr> <tr> <td>2)</td> <td>285,300</td> <td>171,180</td> <td>114,120</td> </tr> </tbody> </table>			(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	441,300	264,780	176,520	2)	285,300	171,180
(US\$1,000)	Total Cost	Local Cost	Foreign Cost													
1)	441,300	264,780	176,520													
2)	285,300	171,180	114,120													
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	(Description)  A feasibility study was conducted in 1979 on Kamphaeng Saen irrigation and agricultural development, but the project was not implemented, partly owing to the change of government policy.  (FY 1991 Overseas Survey) The Phase II Development Program is being undertaken and will be finished in 1994. A review study may be necessary in the near future.													
4.REFERENCE NO.		1.Short-term development plan 1) Improvement of field of 185,900ha 2) Repair of irrigation and drainage canals of 1,082km														
5.TYPE OF STUDY	M/P	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														
6.COUNTERPART AGENCY	Ministry of Agriculture and Cooperatives	* Cost 1) is for the short-term development plan and cost 2) is for the long-term development plan excluding the short-term development plan.														
7.OBJECTIVES OF STUDY		4.CONDITIONS AND DEVELOPMENT IMPACTS	2.MAJOR REASONS FOR PRESENT STATUS													
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.	10.STUDY TEAM	3.PRINCIPAL SOURCE OF INFORMATION													
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		No.of Members 20 Period Dec.1977-Mar.1980(28 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>130.19</td> <td>45.83</td> <td>84.36</td> </tr> </tbody> </table>				Total M/M	Japan	Field	130.19	45.83	84.36					
Total M/M	Japan	Field														
130.19	45.83	84.36														
12.EXPENDITURE		5.TECHNICAL TRANSFER														
Total	346,684 (¥'000)	OUT														
Contracted	242,550															

和名 メクロン川マスタープラン

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

## PROJECT SUMMARY (F/S)

ASE THA/S 306/79

Compiled Mar. 1986  
Revised Mar. 1993

I. OUTLINE OF STUDY			II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT														
1. COUNTRY	Thailand		1. SITE OR AREA	Nakkon Sawan Prefecture, Chiyaphum Prefecture		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	Nong Bua - Ban Lam Chi Bon Highway Project		2. PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>30,600</td> <td>17,300</td> <td>13,300</td> </tr> <tr> <td>US\$1=20 Bahts</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)	30,600	17,300	13,300	US\$1=20 Bahts				(Description) 1983 Sep. OECF loan agreement (5,770 million yen) 1984 Dec. D/D completed 1986 Feb. Construction commenced 1988 Aug. Construction completed  (FY 1991 Overseas Survey) No additional information.  (FY 1992 Overseas Survey) 2,517 million yen was appropriated for the project from the OECF loan. The total cost for the project was 348.70 million bahts. The total length was 162.2 km.		
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	30,600	17,300	13,300																	
US\$1=20 Bahts																				
3. SECTOR	Transportation/Road		3. CONTENTS OF MAJOR PROJECT(S)	Three alternatives of route: I Nong Bua-Wang Wat II Wang Wat-Tha Pong III Tha Pong-Lup Pho 1. Objective: The project aims at accelerating socio-economic development in rural areas and, at the same time, at providing an inter-provincial road, in an east-west direction, to supplement the existing highway network which are mainly of radial type connection with Bangkok. 2. Optimal route: Nong Bua-Nong Ngu Luam-Sap Bon-Wang Wat-Tha Pong-Nong Bua Rave-Lup Pho 3. Road length 1) Improvement: 41.9km 2) New construction: 112.8km total 154.7km 4. Road width 1) Formation width: 9.0-10.0m 2) Pavement width (SBST): 5.5-6.0m 5. Surface treatment 1) SBST: 105.0km (68%) 2) Soil aggregate surface: 49.7km (32%)																
4. REFERENCE NO.			8. DATE OF S/W	Jul. 1978		2. MAJOR REASONS FOR PRESENT STATUS - large development impact - good linkage with other major road - high priority - effective administration														
5. TYPE OF STUDY	F/S		9. CONSULTANT(S)	Nihon Koei Co., Ltd. Katahira & Engineers International																
6. COUNTERPART AGENCY	Department of Road Ministry of communication		4. FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>21.70</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </tbody> </table>		Feasibility:	EIRR1)	21.70	FIRR1)	Yes	EIRR2)		FIRR2)		EIRR3)		FIRR3)	3. PRINCIPAL SOURCE OF INFORMATION ①②③④		
Feasibility:	EIRR1)	21.70	FIRR1)																	
Yes	EIRR2)		FIRR2)																	
	EIRR3)		FIRR3)																	
7. OBJECTIVES OF STUDY	Provincial road improvement		Conditions and Development Impacts: Conditions: 1. The method of optimum route selection Evaluation of the alternatives was made mainly according to the following three factors; 1) Construction cost 2) Route length which reflects on the road users' costs 3) Availability of newly cultivatable land along the route which reflects the magnitude of agricultural benefits. 2. Uncultivated land available for future development: 286,000 rai 3. Estimation of passenger traffic was based on the projected population and the person trip rate model derived from the home interview survey. Development impacts: <table border="1"> <thead> <tr> <th></th> <th>1984</th> <th>1990</th> <th>1998</th> </tr> </thead> <tbody> <tr> <td>1. Benefits (million Baht)</td> <td>113.6</td> <td>130.7</td> <td>161.6</td> </tr> <tr> <td>Road users' cost saving</td> <td>1.2</td> <td>58.8</td> <td>55.4</td> </tr> </tbody> </table> 2. Agricultural development 1) Increase of productivity (paddy) 2) Acceleration of rate of opening of new land 3) Increase of farm gate price 4) Increase of crop yield by the improved farming			1984	1990	1998	1. Benefits (million Baht)	113.6	130.7	161.6	Road users' cost saving	1.2	58.8	55.4				
	1984	1990	1998																	
1. Benefits (million Baht)	113.6	130.7	161.6																	
Road users' cost saving	1.2	58.8	55.4																	
10. STUDY TEAM	No. of Members 11 Period Jun. 1979-Feb. 1980 (8 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>43.40</td> <td>18.50</td> <td>24.90</td> </tr> </tbody> </table>		Total M/M	Japan	Field	43.40	18.50	24.90	5. TECHNICAL TRANSFER											
Total M/M	Japan	Field																		
43.40	18.50	24.90																		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey Traffic Survey		(1) OJT: Discussion about route selection. Traffic forecast and development benefits. (2) Trainee: 1 engineer																	
12. EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>104,520 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>103,547</td> </tr> </tbody> </table>			104,520 (¥'000)	Total		Contracted	103,547												
	104,520 (¥'000)																			
Total																				
Contracted	103,547																			

和名 ノンブアー—バンラムチボン道路建設計画

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

# PROJECT SUMMARY (F/S)

ASE THA/A 302/79

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	Thailand	1.SITE OR AREA	Kamphaeng Saen District, Mae Klong River Basin, western part of Central Thailand, area 28,000ha, population 65,500														
2.NAME OF STUDY	Kamphaeng Saen Irrigated Agriculture Development Project in the Mae Klong River Basin	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>32,705</td> <td>18,710</td> <td>13,995</td> </tr> <tr> <td>US\$1=230Yen</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	32,705	18,710	13,995	US\$1=230Yen			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	32,705	18,710	13,995														
US\$1=230Yen																	
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)	<p>- Improvement of irrigation and drainage facilities constructed under the development project in Mae Klong River Basin.: 16,380 ha</p> <p>- Improvement of terminal facilities such as irrigation and drainage ditches, farm roads, etc.: 16,380 ha</p>														
4.REFERENCE NO.		<p>(Description)</p> <p>The proposed project was suspended owing to the policy change of the Thai Government.</p> <p>(FY 1991 Overseas Survey)</p> <p>No additional information.</p>															
5.TYPE OF STUDY	F/S																
6.COUNTERPART AGENCY	RID (Royal Irrigation Department), Ministry of Agriculture and Cooperatives																
7.OBJECTIVES OF STUDY																	
8.DATE OF S/W	.0	Imp. Period:	.1981-.1986														
9.CONSULTANT(S)	Sanyu Consultants Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>27.00</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2</td> <td></td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td></td> <td>FIRR3</td> </tr> </tbody> </table> <p>Conditions and Development Impacts:</p> <p>Cultivated land area will be increased from 13,400 ha to 16,380ha by improving irrigation facilities.</p> <p>The land use rate will be heightened to 195% (currently 120%) by flood prevention of paddy field of 5,300ha through construction of flood prevention embankment, and improvement of terminal facilities.</p>			Feasibility:	EIRR1	27.00	FIRR1	Yes/No	EIRR2		FIRR2		EIRR3		FIRR3
Feasibility:	EIRR1	27.00	FIRR1														
Yes/No	EIRR2		FIRR2														
	EIRR3		FIRR3														
10.STUDY TEAM	<p>No.of Members 10</p> <p>Period Jan.1979-Oct.1979(10 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>23.87</td> <td>19.50</td> <td>4.37</td> </tr> </tbody> </table>	Total M/M	Japan	Field	23.87	19.50	4.37	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>(FY 1991 Overseas Survey)</p> <p>The improvement of the existing irrigation facilities continues to be one of the national development strategies, but the project in question is not ranked high in priority.</p>									
Total M/M	Japan	Field															
23.87	19.50	4.37															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																	
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>94,709 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>88,926</td> </tr> </tbody> </table>		94,709 (¥'000)	Total		Contracted	88,926	5.technical transfer	<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②</p>								
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Total																	
Contracted	88,926																

和名 メクロン川流域カンバンセンかんがい農業開発

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