

# PROJECT SUMMARY (F/S)

Compiled Mar.1986  
Revised Mar.1994

ASE PHL/S 308/80

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Philippines	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY Manila-Bataan Coastal Road and its Related Roads		Metro Manila area, in the Central west zone of Luzon Island					
3.SECTOR Transportation/Fish Processing		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1)	297,000	99,000		
5.TYPE OF STUDY		(US\$1=215Yen)	2)				
6.COUNTERPART AGENCY Dept. of Public Works and Highways (DPWH)		3)	3.CONTENTS OF MAJOR PROJECT(S)				
7.OBJECTIVES OF STUDY Road plan		Description		Scale		(Description) Jan.1988   OECF L/A signed (E/S package loan 2 billion yen)  With part of the E/S loan (108 million yen), the detailed design study was undertaken on the western and southern sections of C-5 (Katahira & Engineers International, and TCGI Engineers). In 1990, the Government decided to implement the project by BOT, after scaling down the project.  (FY1992 Overseas Survey) Jun.1992   After the eruption of Mt. Pinatubo in Nov.1991, the road was somewhat moved toward inland, and the D/D was completed on C-5.  The construction of C-5 has been delayed owing to the problem of land acquisition. The D/D of C-6 is yet to be undertaken, and the similar problem of land acquisition is expected.  (FY1993 Overseas Survey) BOT scheme on C-5 road and Manila-Bataan road is envisioned. The Medium Term Public Investment Program (MTPIP) includes the Project as a priority project to support the Subic Bay Development Program under the SBMA (Subic Bay Metropolitan Authority).	
8.DATE OF S/W		Aug.1978		Imp. Period: .1981-.1987			
9.CONSULTANT(S) Pacific Consultants International Japan Overseas Consultants Co., Ltd.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 22.60 EIRR2) EIRR3)		FIRR1) FIRR2) FIRR3)
10.STUDY TEAM		Conditions and Development Impacts: The project consists of 2 components: Road and Reclamation. The value of EIRR/FIRR was calculated from both projects. Condition: 1) Existing price mechanism does not change when general price increases as price of petroleum products go up. 2) Existing mode of public transportation service does not change. Development impact: 1) Formulation of well-organized city function in suburban area as well as expansion of urban area. 2) Expansion of new industrial/commercial district as a result of superiority of commercial location. 3) Promotion of regional development through industrial district.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					
12.EXPENDITURE		1) Overseas training   2) Report writing with counterpart staff					
Total		168,421 (¥000)					
Contracted		164,825					
2.MAJOR REASONS FOR PRESENT STATUS							3.PRINCIPAL SOURCE OF INFORMATION ①②③

和名 マニラ・バターン道路およびC-5、C-6道路建設計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1994

ASE PHL/A 304/80

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT											
1.COUNTRY	Philippines	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled										
2.NAME OF STUDY		Ilocos Norte Province in northwest end of Luzon Island															
Ilocos Norte Irrigation Project:Phase II		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost											
		(US\$1,000)	1)	331,000	120,600	210,500											
		US\$1=7.4peso		2)													
				3)													
3.SECTOR		3.CONTENT(S) OF MAJOR PROJECT(S)				(Description) The Phase I of the proposed project is under implementation with OECF financing. Jun.1980 OECF L/A signed (E/S 70 million yen) Jun.1981 OECF L/A signed (5,000 million yen) The loan finances the construction of 5 diversion weirs, irrigation and drainage canals, farm roads, and other related facilities. Apr.1982 Construction started Dec.1993 Construction to be completed  A pilot project of on-farm irrigation facilities was implemented by the Japanese grant during 1981-1982.  (FY1991 Overseas Survey) The financial arrangement for the project (Phase II) was not successful. The project is likely to be revived, but the timing is not known.											
Agriculture/General																	
4.REFERENCE NO.																	
5.TYPE OF STUDY		F/S															
6.COUNTERPART AGENCY		National Irrigation Administration															
7.OBJECTIVES OF STUDY																	
8.DATE OF S/W		Nov.1975															
9.CONSULTANT(S)		Sanyu Consultants Inc.															
		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 13.20 EIRR2) 14.00 EIRR3)			FIRR1) FIRR2) FIRR3)									
10.STUDY TEAM		Conditions and Development Impacts: (Conditions) Economic benefits are expected of agricultural development and electric power generation. Agricultural benefits are estimated as the difference of net income from crop production between with-project and without-project conditions. Benefits net income from crop production. (million pesos) <table style="margin-left: 20px;"> <tr> <td></td> <td style="text-align: center;">1984</td> <td style="text-align: center;">1987</td> <td style="text-align: center;">1992</td> </tr> <tr> <td>with project</td> <td style="text-align: center;">120</td> <td style="text-align: center;">147</td> <td style="text-align: center;">374</td> </tr> <tr> <td>without project</td> <td style="text-align: center;">117</td> <td style="text-align: center;">122</td> <td style="text-align: center;">129</td> </tr> </table> (Development Impacts) Increased crop production, improved farmers' income and living standard, increased employment opportunities.  The EIRR 1) above is for phase I, and 2) is for Phase II.							1984	1987	1992	with project	120	147	374	without project	117
	1984	1987	1992														
with project	120	147	374														
without project	117	122	129														
		Total M/M		Japan	Field												
		96.92		37.18	59.74												
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																	
12.EXPENDITURE		5.TECHNICAL TRANSFER															
Total		Survey method and development planning method in each sector were transferred to counterparts assigned during the period of the survey															
Contracted		328,554 (¥'000)		290,172													
						3.PRINCIPAL SOURCE OF INFORMATION											
						①②③④											

和名 イロコスノルテかんがい計画

(F/S,D/D)

# PROJECT SUMMARY (M/P)

Compiled Mar.1986

Revised Mar.1994

ASE PHL/S 104/81

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS			
1.COUNTRY	Philippines	1.SITE OR AREA	Davao in Mindanao		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
2.NAME OF STUDY Davao City Urban Transport cum Land Use		2.PROJECT COST (US\$1,000)			(Description) Part of the recommendation on public transportation (e.g. improvement of jeepney transportation) was implemented, but the utilization of the entire plan has not been realized.  (FY 1991 Overseas Survey) Some of the projects recommended by this study were implemented by the IBRD - assisted Regional Cities Development Project (RCDP).  (FY 1993 Overseas Survey) 3. Pampanqa Delta Development Project  OECF has concurred the contract of the four contract packages in July 15, 1993. Offices for implementation Agency, consultant, contractor are set up on the site area. The reasons behind of schedule are, 1) Relocation of squatters affected by the project, 2) persuasion of some opposition groups, and 3) obtain environmental compliance Certificate that pointed out by the OECF. Unless solve the problems OECF does not furnishes funds for first payment. The PMO together with the consultant and contractor is undertaking the reconstruction survey to establish necessary control points and boundary lines.  (FY1993 Overseas Survey) RCDP included following three major components. - Installation of traffic signals - Construction of waiting sheds - Construction of Cabaquio Road	Total Cost    Local Cost    Foreign Cost  1) 2)		
3.SECTOR Transportation/Urban Transportaion		3.CONTENTES OF MAJOR PROJECT(S) 1)Regional development 7 industrial estates; 6 commercial centers; 2 educational urban centers; 1 administrative center; 2 port expansion 2)Road 25 new trunk road sections; 40 improvement sections 3)Public transportation introduction of bus transport 4)Traffic control improvement of interchanges; signals; exclusive bus lanes						
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS  The proposed plan will contribute to the alleviation of the existing transportation problems and to the planning on land use, public transportation, road network development and traffic control to meet the future demand.			2.MAJOR REASONS FOR PRESENT STATUS			
5.TYPE OF STUDY							M/P	
6.COUNTERPART AGENCY Dept. of Public Works and Highways (DPWH)							7.OBJECTIVES OF STUDY Formulation of a land use plan and a transportation master plan through 2000	
8.DATE OF S/W							Mar.1979	
9.CONSULTANT(S) Nippon Engineering Consultants Co., Ltd. Nippon Koei Co., Ltd.		5.TECHNICAL TRANSFER 1)OJT on transport planning 2)Participation of counterparts in JICA training program 3)Employment of local consultants			3.PRINCIPAL SOURCE OF INFORMATION  ①②			
10.STUDY TEAM		12.EXPENDITURE						
No.of Members    17 Period Jun.1979-Dec.1981 (30 months)		Total                    326,652 (¥000)						
Total M/M            Japan                  Field 136.93                17.33                  119.60								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Topographic maps (scale: 1/10,000 and 1/5,000)								

和名 ダバオ都市交通計画

{M/P,Basic Study,Other}

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1994

ASE PHL/S 310/81

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Philippines	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		Panpanga River Basin (0.32 million ha) in Luzon					
Pampanga Delta Development Project		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)	1)	182,666	102,666	80,000	
		(US\$1=8.2pesos)	2)	84,000	49,333	33,333	
			3)				
3.SECTOR		3.CONTENTS OF MAJOR PROJECT(S)				(Description)  May 1986 OECF F/S loan agreement (705 million yen) Oct.1987-May 1990 Detailed Design Jun.1989 OECF Appraisal of Flood Control Component Feb.1990 OECF loan agreement (8.63 billion yen) for flood control  Mar.1991 OECF Appraisal of Irrigation Component Jul.1991 OECF loan agreement (9.43 billion yen) for irrigation Jan.1992 Construction (flood control) started Dec.1992 Construction (irrigation) started Mar.1997 Construction (flood control) to be completed Oct.1998 Construction (irrigation) to be completed	
Social Infrastructures/River & Erosion Control		1)Flood control river channel improvement 40km; revetment 97km; excavation of low-water channel in a volume of 33 million cu.m; embankment of existing levee to be heightened 35.6km; embankment of base mound 48.8km; revetment 4km; outlet culvert 19 places; outlet culverts incl.fishpond intakes of 26nos; bridges 2 places					
4.REFERENCE NO.		2)Irrigation development - 1 weir, irrigable area of 14,000 ha - Main canals 37 km, secondary and tertiary canals 145 km					
5.TYPE OF STUDY		F/S					
6.COUNTERPART AGENCY		Dept. of Public Works and Highways (DPWH) and National Irrigation Administration					
7.OBJECTIVES OF STUDY		Review of the master plan and feasibility analysis of priority projects					
8.DATE OF S/W		May.1980					
9.CONSULTANT(S)		Nippon Koel Co., Ltd. Nikken Consultants., Inc.					
10.STUDY TEAM		4.FEASIBILITY AND ITS ASSUMPTIONS					
No.of Members 20		Feasibility: Yes		EIRR1) 10.80	FIRR1)		
Period Jul.1980-Feb.1982 (7 months)				EIRR2) 15.40	FIRR2)		
Total M/M				EIRR3)	FIRR3)		
Japan		Conditions and Development Impacts:					
Field		[Conditions] Flood control benefits are the expected reduction of flood damages for farm crops, fisheries, private properties, public facilities and so on, and the expected production increase for the land having not been utilized during the wet season. Irrigation benefits are the increment of farm income of crops between with and without project conditions.					
107.48		[Impacts] 1)The land area of 19,000 ha and 13,400 buildings will be protected from floods by the flood control project, and annual rice production will increase by 15,000 tons and annual fishery production by 2,400 tons. 2)Rice production will be increased by 47,000 tons by irrigation development. Farmers' income will increase from four to six times.					
45.94		5.7ECHNICAL TRANSFER					
61.54		(1) Technical meetings and transfer of knowledge through monthly meetings (2) Trainee: Four trainees visited Japan (3) Working with counterparts was conducted for field surveys, design works, cost estimates and so on.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Topographic mapping				2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE		Total 435,309 (¥000)					
Contracted 267,522							
						3.PRINCIPAL SOURCE OF INFORMATION	
						①②③④	

和名 バンバンガデルタ開発計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1994

ASE PHL/S 309/81

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																			
1.COUNTRY	Philippines	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																		
2.NAME OF STUDY		Luzon, Mindoro, Lubang, Palawan, Panai, Tablas, Romblon																							
Rural Telecommunications Project in Regions III (Central Luzon) and IV (Southern Tagalog)		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost																			
		(US\$1,000)		1) 82,670	8,470	74,200																			
		(US\$1=215Yen=28.3P)		2)																					
3.SECTOR		3.CONTENTS OF MAJOR PROJECT(S)				(Description)  Dec.1987 OECF E/S loan agreement (707 million yen) Nov.1988 Contract signed with a consulting firm. Feb.1990 OECF loan agreement (21,752 million yen) The loan finances the telecommunication network connecting 71 cities in Regions III, IV and V with Manila and intra- and inter-city telephone exchanges.  May 1991 Contract signed with a contractor Jun.1991 Construction started Jul.1993 Construction is scheduled to be completed  (FY1993 Overseas Survey) Jul.1994 Construction is scheduled to be completed.																			
Communications & Broadcasting/Telecommunication																									
4.REFERENCE NO.																									
5.TYPE OF STUDY		F/S																							
6.COUNTERPART AGENCY		Bureau of Telecommunications																							
7.OBJECTIVES OF STUDY		To determine the feasibility of the Rural Telecommunications Project in Regions III and IV.																							
8.DATE OF S/W		Apr.1980																							
9.CONULTANT(S)		Nippon Telecommunication Consulting Co., Ltd.																							
10.STUDY TEAM		Imp. Period: 1982-1986  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">4.FEASIBILITY AND ITS ASSUMPTIONS</td> <td style="width: 15%;">Feasibility: Yes</td> <td style="width: 15%;">EIRR1) 72.53</td> <td style="width: 15%;">FIRR1) 7.26</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td></td> <td></td> <td>EIRR2) 11.75</td> <td>FIRR2) 6.89</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> <td></td> <td></td> </tr> </table>						4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 72.53	FIRR1) 7.26					EIRR2) 11.75	FIRR2) 6.89					EIRR3)	FIRR3)		
4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 72.53	FIRR1) 7.26																						
		EIRR2) 11.75	FIRR2) 6.89																						
		EIRR3)	FIRR3)																						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts: 1) Rehabilitation of the existing old telecommunicating facilities at the objected areas. 2) Improvement of the telecommunications services at the objected areas. 3) Development in administrative efficiency and enhancement of timely administration. 4) Progress of regional industries and regional development. 5) Contribution to tourism and the tourist industry. 6) Development in living environment in rural areas. 7) Development of reliability of telecommunication and spread of demand for telecommunication.  Note: The EIRRs and FIRRs 1) and 2) above are for the Phase 1 and the entire project.																							
12.EXPENDITURE		5. TECHNICAL TRANSFER																							
Total 46,006 (¥'000)		(1) Trainee acceptance; 2 counterparts invited to Japan																							
Contracted 15,139		(2) On-the-Job-Training for counterparts																							
		2.MAJOR REASONS FOR PRESENT STATUS																							
		(1) Effectiveness (2) High priority																							
		3.PRINCIPAL SOURCE OF INFORMATION																							
		①②④																							

和名 中部ルソン電気通信網整備計画

[F/S,D/D]

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

Compiled Mar.1986  
Revised Mar.1994

ASE PHL/S 202B/82

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																																																															
1.COUNTRY	Philippines	1.SITE OR AREA		Laoag district (Ilocos Norte Province), Legaspi City and Daraqa Town (Albay Province), Tagbilaran City (Bohol Province)		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																																																																														
2.NAME OF STUDY Local Water Supply Projects		2.PROJECT COST		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">M/P 1)</td> <td style="width: 10%;">56,480</td> <td style="width: 10%;">Local Cost</td> <td style="width: 10%;">21,860</td> <td style="width: 10%;">Foreign Cost</td> <td style="width: 10%;">34,620</td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>(US\$1,000)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>(US\$1=7.80P)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>F/S 1)</td> <td>16,620</td> <td></td> <td>6,220</td> <td></td> <td>10,400</td> </tr> <tr> <td></td> <td>2)</td> <td>8,640</td> <td></td> <td>3,720</td> <td></td> <td>4,920</td> </tr> <tr> <td></td> <td>3)</td> <td>6,510</td> <td></td> <td>2,670</td> <td></td> <td>3,840</td> </tr> </table>					M/P 1)	56,480	Local Cost	21,860	Foreign Cost	34,620		2)							(US\$1,000)							(US\$1=7.80P)							F/S 1)	16,620		6,220		10,400		2)	8,640		3,720		4,920		3)	6,510		2,670		3,840																													
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3.SECTOR Public Utilities/Timber Processing		3.CONTENTS OF MAJOR PROJECT(S)				(Description) After Marcos Regime fell, the contents of this project were changed drastically. Only the Laoag area (Ilocos Prov.) was selected from the project and grouped with two other cities to apply for OECF finance.  Jan.1988 OECF L/A signed (381 million yen) May 1990 D/D completed and construction works started. Nov.1994 Construction to be completed																																																																															
4.REFERENCE NO.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">&lt;M/P&gt; Phase</td> <td style="width: 10%;">Served</td> <td style="width: 10%;">Water</td> <td colspan="2"></td> </tr> <tr> <td></td> <td>(Target year)</td> <td>/Population</td> <td>/Demand(cu.m/day)</td> <td colspan="2">/ Facilities</td> </tr> <tr> <td></td> <td>Basis (1982)</td> <td>76,500</td> <td>14,800</td> <td colspan="2"></td> </tr> <tr> <td></td> <td>Phase-1(1987)</td> <td>116,760</td> <td>28,933</td> <td colspan="2">Improvement of existing facilities</td> </tr> <tr> <td></td> <td>Phase-2(1993)</td> <td>206,690</td> <td>45,608</td> <td colspan="2">Expansion of distribution pipelines</td> </tr> <tr> <td></td> <td>Phase-3(2010)</td> <td>358,811</td> <td>71,231</td> <td colspan="2">Expansion of water facilities including new water resources</td> </tr> <tr> <td></td> <td colspan="5">More expansion of Phase-2</td> </tr> <tr> <td></td> <td colspan="5">The project cost 1)above is for the entire schemes. The project costs for different districts are as follows.</td> </tr> <tr> <td></td> <td></td> <td>Total Cost</td> <td>Local Cost</td> <td colspan="2">Foreign Cost</td> </tr> <tr> <td></td> <td>Laoag</td> <td>24,280</td> <td>9,200</td> <td colspan="2">15,080</td> </tr> <tr> <td></td> <td>Legaspi</td> <td>11,940</td> <td>4,740</td> <td colspan="2">7,200</td> </tr> <tr> <td></td> <td>Daraqa</td> <td>89,00</td> <td>3,500</td> <td colspan="2">5,400</td> </tr> <tr> <td></td> <td>Tagbilaran</td> <td>11,360</td> <td>4,420</td> <td colspan="2">6,940</td> </tr> </table>							<M/P> Phase	Served	Water				(Target year)	/Population	/Demand(cu.m/day)	/ Facilities			Basis (1982)	76,500	14,800				Phase-1(1987)	116,760	28,933	Improvement of existing facilities			Phase-2(1993)	206,690	45,608	Expansion of distribution pipelines			Phase-3(2010)	358,811	71,231	Expansion of water facilities including new water resources			More expansion of Phase-2						The project cost 1)above is for the entire schemes. The project costs for different districts are as follows.							Total Cost	Local Cost	Foreign Cost			Laoag	24,280	9,200	15,080			Legaspi	11,940	4,740	7,200			Daraqa	89,00	3,500	5,400			Tagbilaran	11,360	4,420	6,940	
	<M/P> Phase	Served	Water																																																																																		
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	Daraqa	89,00	3,500	5,400																																																																																	
	Tagbilaran	11,360	4,420	6,940																																																																																	
5.TYPE OF STUDY M/P+F/S		<F/S>(1)Laoag area:water intake conduits, deep wells, transmission and distribution pipes, etc. (4,130 cu.m/day) (2)Legaspi area:spring water, transmission and distribution pipes, etc.(6,480 cu.m/day) (3)Daraqa town: spring water, transmission and distribution pipes,etc. (4,320 cu.m/day) (4)Tagbilaran city:deep wells, distribution reservoirs, distribution pipes, etc. (1,700 cu.m/day) (5)Total water quantity: 16,630 cu.m/day (Planned development quantity) The above project costs for Phase 1 and Phase 2 are 1) Laoag area, 2) Legaspi area, 3)Daraqa town. The project costs for Tagbilaran city are as follows. Total Cost:6,560, Local Cost:2,510, Foreign Cost: 4,050.																																																																																			
6.COUNTERPART AGENCY Local Water Utilities Administration		Imp. Period: Jan.1984-Dec.1986																																																																																			
7.OBJECTIVES OF STUDY F/S of the emergency project based on the master plan. Planning on the water supply expansion plan up to the year 2010 and selection of emergency project.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)																																																																																	
8.DATE OF S/W Mar.1981		Conditions and Development Impacts: <M/P><Assumptions> Based on the served population, which was assumed to rise gradually, future water demand was projected. <Impacts>(1) Full utilization of the existing water sources. (2) Alleviation of the chronic water shortage (3) Expansion of the water supply system <F/S><Conditions>F/S was carried out for two cases: the initial project of Phase 1, the combined project of Phase 1 and Phase 2. <Impacts> Increase of services area and served population, safe, continuous and stable water supply, improvement of environmental hygiene, decrease of fire injury, increase of land prices and expansion of employment opportunities. EIRRs for different districts are as follows.																																																																																			
9.CONSULTANT(S) Nihon Suido Consultants Co., Ltd.																																																																																					
10.STUDY TEAM No.of Members 9 Period Jun.1981-Jun.1982(12 months)		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		2.MAJOR REASONS FOR PRESENT STATUS																																																																																	
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">Total M/M</td> <td style="width: 10%;">Japan</td> <td style="width: 10%;">Field</td> <td colspan="2"></td> </tr> <tr> <td></td> <td>79.95</td> <td>34.72</td> <td>45.23</td> <td colspan="2"></td> </tr> </table>			Total M/M	Japan	Field				79.95	34.72	45.23			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">Laoag area</td> <td style="width: 10%;">11%-14%</td> <td style="width: 10%;">Phase 1+Phase 2</td> <td colspan="2"></td> </tr> <tr> <td></td> <td>Legaspi area</td> <td>24%-37%</td> <td>14%-18%</td> <td colspan="2"></td> </tr> <tr> <td></td> <td>Daraqa town</td> <td>40%-49%</td> <td>17%-24%</td> <td colspan="2"></td> </tr> <tr> <td></td> <td>Tagbilaran city</td> <td>14%-18%</td> <td>16%-19%</td> <td colspan="2"></td> </tr> </table>			Laoag area	11%-14%	Phase 1+Phase 2				Legaspi area	24%-37%	14%-18%				Daraqa town	40%-49%	17%-24%				Tagbilaran city	14%-18%	16%-19%			<M/P>Provision of water supply is an essential infrastructure for improving environmental and sanitary condition in the respective four cities, as they have been developing as the center of the regions. <F/S> The scope of the project was reviewed and modified by the present administration after Marcos Regime fell.																																													
	Total M/M	Japan	Field																																																																																		
	79.95	34.72	45.23																																																																																		
	Laoag area	11%-14%	Phase 1+Phase 2																																																																																		
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12.EXPENDITURE		5. TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION																																																																															
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">Total</td> <td style="width: 10%;">182,931 (¥000)</td> <td colspan="3"></td> </tr> <tr> <td></td> <td>Contracted</td> <td>180,464</td> <td colspan="3"></td> </tr> </table>			Total	182,931 (¥000)					Contracted	180,464				Carried out the training program on investigation, planning and management of water works for four counterparts. Two counterparts have studied and prepared studies with project team.				①④																																																																			
	Total	182,931 (¥000)																																																																																			
	Contracted	180,464																																																																																			

和名 地方都市上水道計画

[M/P+F/S]

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

Compiled Mar.1986  
Revised Mar.1993

ASE PHL/S 201B/82

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT																										
1.COUNTRY	Philippines	1.SITE OR AREA			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled																									
2.NAME OF STUDY Development Project of the Port of Irene		Port Irene at Casambalagan bay																													
3.SECTOR Transportation/Port		2.PROJECT COST			(Description) Sep.1983 OECF loan agreement signed (E/S, 240 million yen) Aug.1986 D/D completed  (FY 1991 Overseas Survey) The project implementation has been suspended since the political change in 1986 and is now considered unlikely.																										
4.REFERENCE NO.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">M/P 1)</td> <td style="width: 15%;">Local Cost</td> <td style="width: 15%;">Foreign Cost</td> <td style="width: 15%;"></td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(US\$1,000)</td> <td>F/S 1)</td> <td>12,941</td> <td>4,167</td> <td>8,774</td> </tr> <tr> <td>(US\$1=7.95P)</td> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>						M/P 1)	Local Cost	Foreign Cost			2)				(US\$1,000)	F/S 1)	12,941	4,167	8,774	(US\$1=7.95P)	2)					3)			
	M/P 1)	Local Cost	Foreign Cost																												
	2)																														
(US\$1,000)	F/S 1)	12,941	4,167	8,774																											
(US\$1=7.95P)	2)																														
	3)																														
5.TYPE OF STUDY		3.CONTENTES OF MAJOR PROJECT(S)																													
6.COUNTERPART AGENCY		<M/P> Main projects (Target year 2000): - 2 berths for foreign trade (-10m, 15,000dwt) (New construction) - 3 berths for domestic trade (-7.5m, -5.5m) (New construction) - 1 Container berth for domestic trade (-7.5m) (New construction) - Construction of sheds, warehouses, fishing ports  * Above project costs are for short-term plan.  <F/S> Short-term projects: Wharf for foreign trade (-10m) 1berth (200m) Mooring basin (-10m) 750 thousand cu.m Transit shed (40mx90m) Road (width 10m) 1.6km																													
7.OBJECTIVES OF STUDY																															
8.DATE OF S/W																															
9.CONSULTANT(S)		Imp. Period: Oct.1983-Dec.1986																													
10.STUDY TEAM		4.FEASIBILITY AND ITS ASSUMPTIONS			2.MAJOR REASONS FOR PRESENT STATUS																										
No.of Members   9 Period   May.1981-Mar.1982 (11 months)		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">EIRR1)</td> <td style="width: 15%;">25.20</td> <td style="width: 15%;">FIRR1)</td> <td style="width: 15%;">5.20</td> </tr> <tr> <td></td> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> <td></td> </tr> </table>						Feasibility:	EIRR1)	25.20	FIRR1)	5.20		Yes	EIRR2)		FIRR2)				EIRR3)		FIRR3)								
	Feasibility:	EIRR1)	25.20	FIRR1)	5.20																										
	Yes	EIRR2)		FIRR2)																											
		EIRR3)		FIRR3)																											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer			3.PRINCIPAL SOURCE OF INFORMATION																										
Geological and oceanographic survey		Conditions and Development Impacts: <M/P> Development of this port in short-term plan will increase the employment opportunity and the income through the development of the Cagayan Valley where agriculture and forestry are main industry. In long-term plan development of this port will strengthen the basis of industry in this region and contribute to the development of sea transportation system in the Philippines. <F/S> Conditions: Cargo throughput projection (1987) for the short-term plan are based on the development prospects of Cagayan Province. The projection for the long-term plan (2000) is based on the development prospects of the northeastern region of Luzon Island.  Impacts: The port will function as one of the development centers for the Cagayan Valley area and contribute to the increase of employment and income among the local population.																													
12.EXPENDITURE					①②④																										
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">135,996 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>101,988</td> </tr> </table>		Total	135,996 (¥000)	Contracted			101,988	1) On the job training to counterpart ; 2) Counterpart training 3) Preparation of report by cooperation with counterpart 4) Use the local consultant for oceanographic survey and boring 5) Donation of machinery and instruction of its use.																							
Total	135,996 (¥000)																														
Contracted	101,988																														

和名 アイリーン港整備計画

{M/P+F/S}

# PROJECT SUMMARY (F/S)

Compiled Mar.1986  
Revised Mar.1994

ASE PHL/S 311/82

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT			
1.COUNTRY	Philippines	1.SITE OR AREA	Dalton Pass, Nueva Vizcaya			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled		
2.NAME OF STUDY	Dalton Pass Tunnel Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost				
3.SECTOR	Transportation/Fish Processing		1)			(Description) The GOP decided to request JICA for a feasibility study to determine the viability of constructing a tunnel. However, although the study indicated the technical and economic feasibility, the proposed project was postponed because of the large cost needed for implementation. At present, the road disaster prevention works along the existing routes, which require less costs, are being undertaken by applying the measures suggested in the study.  (FY 1992 Overseas Survey) The existing road was seriously affected by the earthquake in July 1990, and the Philippine Government began to consider whether the road should be rehabilitated or the alternative road should be constructed. GOP has requested Japan to undertake a study on the road network in entire Luzon (including Dalton Pass). The study is expected to be completed in April 1993.  (FY1993 Overseas Survey) The Government proposes to find alternative routes (other than the Dalton Pass).			
4.REFERENCE NO.			2)						
5.TYPE OF STUDY	F/S	3.CONTENTS OF MAJOR PROJECT(S)	3)						
6.COUNTERPART AGENCY	Dept. of Public Works and Highways (DPWH)	The Route No. 5 (Philippine-Japan Friendship Highway) is a main truck line connecting between the Luzon Central Plain including the Metro Manila Region and the Cagayan Valley Region in the north. During the typhoon season, the Dalton Pass Region is cut off due to landslides, roadcuts, collapsed bridges, etc. Considering this situation, the realization of the tunneling project was proposed in the Dalton Pass Region.							
7.OBJECTIVES OF STUDY	Construction of Tunnel and Planning of Road Disaster Prevention								
8.DATE OF S/W	Feb.1981	Imp. Period:	.1983-.1990						
9.CONSULTANT(S)	Katahira & Engineers International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) EIRR2) EIRR3)	17.60 FIRR1) FIRR2) FIRR3)				
10.STUDY TEAM	No. of Members    11 Period    May.1981-Mar.1982 (10 months)	Conditions and Development Impacts: As an assumption, the forecasted daily traffic in 2015 should be 7910 vehicles per day and a ventilation of jet-fan type, which will be at the first stage applied, shall be changed to the shaft type. The electric power for tunnel facilities shall be secured from the Gabat Substation which would be completed in 1982. The development benefits involve to ensure the traffic in the Dalton Pass Region, and reduction of travel time and the price increase due to cut off of roads at Dalton Pass which causes a detour through Route No. 3 connecting with Metro Manila Region.							
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td style="text-align: center;">68.76</td> <td style="text-align: center;">13.93</td> <td style="text-align: center;">54.83</td> </tr> </table>							Total M/M	Japan
Total M/M	Japan	Field							
68.76	13.93	54.83							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geotechnical Investigations Traffic surveys including OD surveys	5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS			
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total</td> <td style="text-align: right;">217,540 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td style="text-align: right;">215,452</td> </tr> </table>					Total	217,540 (¥'000)	Contracted	215,452
Total	217,540 (¥'000)								
Contracted	215,452								
		5. TECHNICAL TRANSFER O/T to counterparts on traffic survey and data analysis.				3.PRINCIPAL SOURCE OF INFORMATION			
						①②③			

和名 ダルトン・パス・トンネル計画

(F/S,D/D)



# PROJECT SUMMARY (F/S)

Compiled Mar. 1986  
Revised Mar. 1994

ASE PHL/S 312/82

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA				1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY		Southern area of Manila Metropolitan zone including Las Pinas Paranaque and Muntinlupa					
Metro Manila Outer Major Roads Project (Southern Package)		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)	1)	92,200	63,000	29,200	
		(US\$1=225Yen=7.95peso)	2)				
			3)				
3. SECTOR		3. CONTENTS OF MAJOR PROJECT(S)				(Description) (FY 1992 Overseas Survey) 1. Widening of the Paranaque to Sucat Section Jul. 1986 - Mar. 1990. Detailed design by DPWH funds (TCGI Engineers) May. 1990 Construction commenced partly by IBRD fund (L/A Sept. 1984, US\$102 million) and partly by own funds (179 million pesos). 2. Widening of the Zapote - Alabang Section Detailed design completed with IBRD finance. D/D completed in 1991 by GOP funds. 3. Taquiq - Las Pinas - Muntinlupa Section The F/S was reviewed during Apr. - Aug. 1986 (funded by the World Bank). The original proposal was rerouted to the section from Taquiq to Paranaque (12.9km) which skirts the southern periphery of the International Airport. The new route was named Southern Section of C-5 and the 14th OECF Yen Credit was approved. Jan. 1988 OECF loan (Ph-P88) L/A signed (E/S package loan 20 million yen) Apr. 1989 - Jan. 1991. Detailed Design (C-5 Western and Southern Sections) completed (Katahira & Engineers) Jan. 1988. OECF loan (Ph-P78) L/A signed (4,837 million yen for southern C-5 and eastern R-4 connecting C-4 (EDSA) and C-5) Dec. 1990 Construction started (to be completed in Dec. 1994) Construction of the eastern R-4 has been suspended pending the relocation of squatters. Construction of the southern section of C-5 has not been started pending the acquisition of the right of way. Total investment 1,445 million pesos (foreign currency 873 million, local currency 572 million) (FY1993 Overseas Survey) Zapote - Alabang Road: Right-of-Way problems caused the project to delay. Taquiq - Las Pinas - Muntinlupa Road: The cost of right-of-way acquisition has decreased economic feasibility of the project. However, a new alignment was established and is known as the southern section of C-5. OECF loaned this project.	
Transportation/Fish Processing		- Improvement of roads, 17.8km (1) Paranaque to Sucat Road (7.5km) for expansion 2 lanes to 6 lanes (2) Zapote to Alabang Road (10.3km) for expansion 2 lanes to 4 lanes - New road construction, 20.7km Taquiq-Las Pinas - Muntinlupa Road					
4. REFERENCE NO.		Stage 1 (1983-86): A-Route will be widened to a divided four-lane road with auxiliary lanes; B-Route will be improved only at the westernmost section, about 1.6km in a new alignment connecting directly to the Manila-Cavite Coastal Road; The northern section (about 7.8km long) of C-Route will be constructed to a carriageway of 12.25m.					
5. TYPE OF STUDY		F/S					
6. COUNTERPART AGENCY		Stage 2 (1991-94): The remaining section of B-Route will be widened; The southern section of C-Route will be extended to Muntinlupa, while the northern section will be widened; The western section of A-Route will be widened to a divided six-lane road.					
Dept. of Public Works and Highways (DPWH)							
7. OBJECTIVES OF STUDY		Imp. Period: 1985-1994					
Road Planning		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 40.00   FIRR1) EIRR2)   FIRR2) EIRR3)   FIRR3)		
8. DATE OF S/W		Dec. 1980					
9. CONSULTANT(S)		Pacific Consultants International					
10. STUDY TEAM		Conditions and Development Impacts: The project aims to improve the road network in the southern part of Metro Manila, and the feasibility study was conducted for three roads: Paranaque-Sucac Road (existing) 7.5km, Zapote-Alabang Road (existing) 10.3km, Taquiq-Las Pinas-Muntinlupa Road (new construction), Total length 38.5km. [Assumptions for IRR calculation] 1) Discount rate of 15% p.a. 2) 20 years of the benefit stream after the completion of the first stage, i.e., 1987-2006. [Development Impacts] Future traffic demand is expected to increase; therefore, this road planning project should contribute to ease traffic congestion as well as to other development projects in the southern region.					
No. of Members 12							
Period Mar. 1981-Mar. 1982 (13 months)							
Total M/M		Japan		Field			
69.03		9.86		59.17			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER					
Topographic survey, soil survey, Analysis of samples		OJT and JICA training program for counterparts					
12. EXPENDITURE		3. PRINCIPAL SOURCE OF INFORMATION					
Total 171,819 (¥'000)		①②③					
Contracted 166,210							

和名 マニラ首都圏南部地区幹線道路網計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

ASE PHL/A 305/82

Compiled Mar.1990  
Revised Mar.1994

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 checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		The north-east District of Luzon island Pangasinan province, Mabini					
Mabini Agricultural Development Project		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)	1)	127,129	55,698	71,431	
		US\$1=8Ps		2)			
				3)			
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)				(Description) Owing to the change of administration in 1986, the Government of the Philippines did not manage to evaluate the priority of the proposed project. The Government of the Philippines has no plan to find financial assistance.	
4.REFERENCE NO.		The Government of Philippines has been laying high priority on the agricultural development in the 5-year Development Plan and endeavoring the increase of food-stuff and of people's income through securing irrigation water by development of water resources.					
5.TYPE OF STUDY	F/S	Under this background, the Government of Philippines is planning to increase the rice production by supply of the irrigation water constructing or rehabilitating the irrigation facilities and is planning sequently the increase of farmer's income and the stability of the public welfare through the inprovement of related agricultural development facilities or of institution of agriculture on the Mabini area located at the western part of Pangasinan province in the north-west of Luzon island.					
6.COUNTERPART AGENCY	National Irrigation Administration (NIA)	- Project Area 20,000ha - Irrigation Area 11,500ha - Dam Type: Center-core Type Rockfill Dam Height: 88.5m, Length 530m - Reservoir Total capacity : 303MCM Effective capacity: 240MCM Reservoir Area : 12.2km <sup>2</sup>					
7.OBJECTIVES OF STUDY	Stabilization of the people's livelihood and improvement of the income by the construction of rock fill dam and new irrigation system	- Driving Canal 7.7km - Main Canal 52.5km - Branch Canal 135.3km - Electric Power Power Station 2 locations Generation Facility Capacity of Facility:3,000KW, 7,000KW					
8.DATE OF S/W	Feb.1981	Imp. Period: 1983-1988					
9.CONSULTANT(S)	Japan Engineering Consultants Co., Ltd. Nihon Sulko Consultant Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 12.80 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10.STUDY TEAM	No.of Members 15 Period Sep.1981-Mar.1982 (7 months)	Conditions and Development Impacts: [Conditions] (1) Construction cost conversion factor of 0.827 is adopted for general construction cost. (2) Normal conversion factor of 0.820 is adopted for operation and maintenance cost. (3) Benefits from irrigation and power generation are used. (4) It is assumed that dam is complete by 6th year, benefit of one third is occurred at 7th year and full benefit is occurred from 8th year. (5) Durability of the Project is assumed to be 50 years after the facility is fully operated.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		[Development Impacts] (1) Contribution to the self-sufficiency of food-stuff through increasing agricultural production. (2) Increase of farmer's income of the Project area. (3) Increase of employment opportunity by the construction of facility. (4) Reduction of flood damage by the construction of dam.					
		(FY 1993 Domestic Survey)					
12.EXPENDITURE		5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS	
Total 106,975 (¥'000)		1.GJT 2.Acceptance of Trainees (2 persons)				Adjustment of project priority in the government from Marcos regime to Akino regime.  (FY 1992 Overseas Survey) Economic and political circumstances.	
Contracted 99,241						3.PRINCIPAL SOURCE OF INFORMATION	
						①②③	

和名 マビニ地区農業開発計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

ASE PHL/A 306/82

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Philippines	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY AlcoGas Project		Maragondon, Cavite Province, Luzon Island (Area 13,000ha)					
3.SECTOR Agriculture/General		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1)	23,290	12,890	10,400	
5.TYPE OF STUDY		US\$1=8P	2)				
6.COUNTERPART AGENCY Philippine National Alcohol Commission (PNAC)		3)	3.CONTENTS OF MAJOR PROJECT(S)				
7.OBJECTIVES OF STUDY To clarify the feasibility on the agricultural and industrial development plan of raw materials and alcohol production		1. Cropping Area : 3,040ha (including Sugarcane 2,380ha) 2. Main Roads : 4km 3. Secondary Roads : 118km 4. Related Structures : Bridges 2, Culverts 23  Note: The cost above includes the industrial component.				(Description) The Government of the Philippines suspended the implementation of this project because of the fall in the price of crude oil.	
8.DATE OF S/W		Imp. Period: Jan.1981-May.1986					
9.CONSULTANT(S) Nippon Koei Co., Ltd. Chuo Kaihatsu International Corp.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 9.70 EIRR2) EIRR3)		FIRR1) FIRR2) FIRR3)
10.STUDY TEAM		Conditions and Development Impacts: [Conditions] Agricultural Benefit is estimated based on the difference in net agricultural benefit between with and without the project conditions.  [Development Impact] - Increase of farmers' income - Increase of employment opportunity - Improvement of local transportation  *EIRR calculated includes industrial section.					
No.of Members 11 Period Mar.1980-Mar.1982 (29 months)							
Total M/M		Japan		Field			
32.00		10.00		22.00			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		(FY 1993 Domestic Survey)					
12.EXPENDITURE		5.TECHNICAL TRANSFER					
Total		Technology transfer to counterparts in the course of the study.					
Contracted		139,123 (¥'000)					
		101,171					
						2.MAJOR REASONS FOR PRESENT STATUS	
						3.PRINCIPAL SOURCE OF INFORMATION	
						①	

和名 アルコガス計画

(F/S,D/D)

# PROJECT SUMMARY (Basic Study)

Compiled Mar.1990  
Revised Mar.1994

ASE PHL/S 501/82

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Philippines	1.SITE OR AREA	Northern part of Luzon Island (from Ilaqan of Isabela Prov. to Aparri of Cagayan Prov.: 11,000 sq.km)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Topographic Mapping Project for Cagayan Valley	2.PROJECT COST			Total Cost    Local Cost    Foreign Cost	
3.SECTOR	Social Infrastructures/Survey & Mapping	(US\$1,000)	1) 2)	3.CONTENTES OF MAJOR PROJECT(S)		
4.REFERENCE NO.				1st year: aerophotos (1/30,000, 15,000 sq.km) 2nd year: datum points surveyed 3rd year: aero-trianquulation and orthoscopic photos 4th year: aero-trianquulation, topographic original maps, ortho-photo maps 5th year: topographic maps (1/25,000, 72 plates)		
5.TYPE OF STUDY	Basic Study			4.CONDITIONS AND DEVELOPMENT IMPACTS		
6.COUNTERPART AGENCY	Ministry of Defense, Dept.of Coastal Survey			[Conditions] 1. As there was no existing appropriate aerial photograph for 1:25,000 stereo-plotting an aerial photography in the scale at 1:30,000 was carried out. The scale of 1:30,000 for the photography was considered in order to meet proper scale for generation of the orthophoto-map is the scale at 1:10,000 that was conducted in parallel with 1:25,000 mapping. 2. The symbols and specifications for the 1:25,000 national base map was determined on the basis of existig Philippine 1:25,000 symbols and specifications through detail discussion between Japan and Philippine side to present current local state. 3. As to Photo-controls for stereo plotting, Philippine BCGS made control point survey by employinq NNSS observation in the area where higher tranquulation survey nontraversing were expected with difficulty in executing those surveying due to limited to pography. [Development Impacts] 1. It should be possible to provide basic data to formation of general development scheme in the study Area. As the areas to be given benefit were transportation, flood control, intergrated agriculture port rehabilitations, etc. 2. Technical transfer to Philippine counterpart's personnel in preparation of 1:25,000 base map which was never experienced in Philippine history through the implementation of the study. <span style="float: right;">(FY 1993 Domestic Survye)</span>		
7.OBJECTIVES OF STUDY	1:25,000 National Base Mapping covering approx 11,000 km2 of Cagayan Valley Area in Northern Luzon Island.			5.technical TRANSFER	2.MAJOR REASONS FOR PRESENT STATUS	
8.DATE OF S/W	Mar.1978					
9.CONSULTANT(S)	International Engineering Consultants Association					
10.STUDY TEAM	No.of Members    19 Period    Feb.1979-Feb.1983(48 months)					
	Total M/M                      Japan                      Field					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					3.PRINCIPAL SOURCE OF INFORMATION	
					①②③	
12.EXPENDITURE						
	Total                      931, 676 (¥'000)					
	Contracted                      803, 651					

和名 カガヤン・バレー地区地図作成

(M/P,Basic Study,Other)

# PROJECT SUMMARY (F/S)

ASE PHL/S 313/83

Compiled Mar.1990  
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Philippines	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		C-5,C-6,Mindanao Av. and Visayas Road in Metro Manila					
Metro Manila Outer Major Roads Project (Northern Package)		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)	1)	77,697	44,214	33,483	
		(US\$1=14.0pesos)	2)				
			3)				
3.SECTOR		3.CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1992 Overseas Survey) 1984-1985 Detailed design of Mindanao Avenue Extension with IBRD funds (by Renarde S.A.) May.1989 OECF L/A (PH-P95) signed (Metro Manila Outer Major Roads 4,776 million yen) Project: Mindanao Av. Extension (8km, 6 lanes), R-10 widening (6km), C-3 Southern Section (9km, 6 lanes) and related roads (23km) Nov.1990-Jun.1992 Detailed design on the northern part of C-5, utilizing part of the OECF E/S Package Loan. Feb.1992 Construction of Mindanao Av. Extension commenced (scheduled to be completed in Dec.1993) Total investment 229 million pesos (foreign currency 172 million, local currency 57 million)  No funding has been secured for the construction of the northern part of C-5. No action has been taken regarding the northern part of C-6 and Visayas Ave.  (FY1993 Overseas Survey) C-5 (Northern Section) UP - Aurora Blvd: Implementation by local fund is scheduled. Other section: BOT scheme is envisioned for its implementation. C-6 PNCC conducted a study on C-6 as a toll road. Right-of-way acquisition costs were found expensive. Funds from external and internal resources will be necessary.	
Transportation/Fish Processing		Stage 1: Construction of the project roads. Phase 1: Construction of radial roads Phase 2: Construction of the rest of the project roads Stage 2: Upgrading and widening the project roads, grade separation on selected major intersections.					
4.REFERENCE NO.		ROAD SECTION					
5.TYPE OF STUDY		NO. OF LANES					
6.COUNTERPART AGENCY		STAGE1 PHASE1/PHASE2 STAGE 2					
Dept. of Public Works and Highways (DPWH)		C-5 6 8 20					
		C-6 4 2 10					
		Mindanao Ave. 6 2 14					
		Visayas Ave. 4 - 4					
		Total 20 12 48					
7.OBJECTIVES OF STUDY		Note) Stage 1(1984-1990):Construction of Phase 1(1986-1988),Phase 2(1989-1990), Stage 2(1993-1996):Construction of Stage 2(1995-1996)					
To evaluate the feasibility of the outer major roads in economic, financial and technical aspects							
8.DATE OF S/W		Imp. Period: 1984-1996					
Feb.1982		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 46.30 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
9.CONSULTANT(S)		Conditions and Development Impacts:					
Nippon Engineering Consultants Co., Ltd.		[Assumptions] 1) The opportunity cost of capital at 15%. 2) Benefit calculation is 20 years after the construction of Phase 1, Stage 1. 3) Shadow price of the foreign component by an additional 18%. 4) No salvage value to the road structure after the study period.					
10.STUDY TEAM		[Development Impacts] 1) Reduce traffic costs due to improved level of service. 2) Faster travel compared to their old congested and circuitous routes. 3) Alleviate the serious traffic congestion 4) Contribute to the more orderly urban development in Metro Manila. 5) Direct or indirect contribution to the national economy.					
No.of Members 10							
Period Jun.1982-Jun.1983(12 months)							
Total M/M							
Japan							
Field							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE						3.PRINCIPAL SOURCE OF INFORMATION	
Total						①②③④	
161,996 (¥'000)							
Contracted							
156,087							

和名 マニラ首都圏北部地区幹線道路網計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

ASE PHL/A 307/83

Compiled Mar.1990  
Revised Mar.1994

I. OUTLINE OF STUDY			II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																						
1.COUNTRY	Philippines		1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled																					
2.NAME OF STUDY		20,000ha in Bayombong valley in Nueva Vizcaya Province																											
Matuno River Development Project		2.PROJECT COST																											
		<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;"></th> <th style="width: 15%;">1)</th> <th style="width: 15%;">Total Cost</th> <th style="width: 15%;">Local Cost</th> <th style="width: 15%;">Foreign Cost</th> </tr> <tr> <td>(US\$1,000)</td> <td></td> <td>424,067</td> <td>166,015</td> <td>258,052</td> </tr> <tr> <td>US\$1=240Yen in 1983</td> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>					1)	Total Cost	Local Cost	Foreign Cost	(US\$1,000)		424,067	166,015	258,052	US\$1=240Yen in 1983	2)					3)							
	1)	Total Cost	Local Cost	Foreign Cost																									
(US\$1,000)		424,067	166,015	258,052																									
US\$1=240Yen in 1983	2)																												
	3)																												
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)				(Description) New irrigation and hydropower development projects have been largely suspended in the Philippines due to the worsened financial position of the Government. The proposed project is among the projects which have been shelved.																							
Agriculture/General		First phase development Irrigation benefit area: 13,680 ha headworks: 3 sites main irrigation canal: 90 km secondary irrigation canal: 193 km main drainage canal: 90 km secondary drainage canal: 193 km Second phase development dam height: 147 m reservoir: 1 site: 137 X MCM																											
4.REFERENCE NO.																													
5.TYPE OF STUDY		F/S																											
6.COUNTERPART AGENCY		National Irrigation Authority National Power Corporation																											
7.OBJECTIVES OF STUDY		Combined irrigation and hydropower development on Matuno river																											
8.DATE OF S/W		Oct.1981		Imp. Period: 1984-1996																									
9.CONSUANT(S)		Chuo Kaihatsu International Corp.		4.FEASIBILITY AND ITS ASSUMPTIONS																									
				Feasibility: Yes EIRR1) 18.50    FIRR1) EIRR2)            FIRR2) EIRR3)            FIRR3)																									
10.STUDY TEAM		Conditions and Development Impacts: Project impacts: 1.Increase of employment opportunities 2.Expansion of regional economy 3.Increase of resources for public investment funds 4.Saving of foreign exchange				2.MAJOR REASONS FOR PRESENT STATUS																							
No.of Members    17 Period Jan.1982-Feb.1984 (26 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">Total M/M</th> <th style="width: 15%;">Japan</th> <th style="width: 15%;">Field</th> </tr> <tr> <td>101.93</td> <td>36.23</td> <td>65.70</td> </tr> </table>		Total M/M	Japan	Field	101.93				36.23	65.70																			
Total M/M	Japan	Field																											
101.93	36.23	65.70																											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer				3.PRINCIPAL SOURCE OF INFORMATION																							
		1.Training in Japan 2.OJT																											
12.EXPENDITURE																													
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td>302,187 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>287,093</td> </tr> </table>		Total	302,187 (¥000)	Contracted	287,093																								
Total	302,187 (¥000)																												
Contracted	287,093																												

和名 マツノ川開発計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

ASE PHL/A 308/83

Compiled Mar.1990  
Revised Mar.1994

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 checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY Improvement Project of the Operation & Maintenance of National Irrigation Systems (UPRIIS)		Upper Pampanga River Basin in Central Luzon (Nueva Ecija & Bulacan Provinces)					
3.SECTOR Agriculture/General		2.PROJECT COST		Total Cost	Local Cost		
4.REFERENCE NO.		(US\$1,000)		83,290	32,918		
5.TYPE OF STUDY		US\$1=11P		1)	2)		
6.COUNTERPART AGENCY National Irrigation Administration		3) F/S					
7.OBJECTIVES OF STUDY To identify the constraints of the existing irrigation system, and to propose the improvement/rehabilitation plans		3.CONTENT(S) OF MAJOR PROJECT(S)				(Description) The Government of the Philippines has been trying to obtain Japanese grant aid and technical assistance for the proposed project but unsuccessful to date. (FY1991 Overseas Survey) Still awaiting funding.	
8.DATE OF S/W Jul.1982		1. Irrigation Area : 112,000ha 2. Rehabilitation Works - Diversion Dams : 8 - Irrigation Canals : Diversion Canals 46.6 km Main Canals 236km - Drainage Canals : 99 km - River improvement : 44 km 3. Introduction of Centralized Monitoring System - Base station : 5 stations - Field station : 48 stations 4. Improvement of system Operation office (NIA) 5. Improvement of Farmer's Organization					
9.CONSULTANT(S) Nippon Koei Co., Ltd. Nippon Giken Inc.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 19.30 EIRR2) EIRR3)		
10.STUDY TEAM No.of Members 10 Period Sep.1982-Feb.1984 (18 months)		Conditions and Development Impacts: Condition: Project benefits are comprised of irrigation benefit, flood control benefit and reduction of personnel expenses for operation and management of the project. Irrigation benefits are expected to be the increment of paddy between without and with project conditions. Flood control benefits are the expected reduction of flood damages for crops, private property, public facilities and indirect losses. Reduction of personnel expenses will be expected by the introduction of the monitoring system, strengthening work load of field staff, etc. Project Impacts: 1. Increase of rice production 2. Increase of employment opportunity 3. Increase of farmer's income ; 4. Decrease of flood damage					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE		Technology transfer to counterparts in the course of the study. Group training in Japan (one person).				3.PRINCIPAL SOURCE OF INFORMATION	
Total 183,882 (¥000)						①②③	
Contracted 147,788							

和名 かんがい組織維持管理強化計画 (UPRIIS)

(F/S,D/D)

# PROJECT SUMMARY (F/S)

ASE PHL/A 309/83

Compiled Mar.1990  
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				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled																																		
2.NAME OF STUDY	Improvement Project of the Operation and Maintenance of National Irrigation Systems (AMRIS)	Bulacan and Pampanga Provinces, Central Luzon Islands, area 35,000 ha																																							
3.SECTOR	Agriculture/General	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost																																			
4.REFERENCE NO.		(US\$1,000)	1)	46,450	23,723	22,727																																			
5.TYPE OF STUDY	F/S			2)																																					
6.COUNTERPART AGENCY	NIA (National Irrigation Administration)			3)																																					
7.OBJECTIVES OF STUDY	AMRIS Objectives of Study: to carry our feasibility study on rehabilitation and strengthening of O & M for the national irrigation systems which were constructed by	3.CONTENT(S) OF MAJOR PROJECT(S)				(Description) The Government of the Philippines has been keen to reduce the operation costs, and improve the operational efficiency, of publicly-managed irrigation schemes. For this purpose, the Government has been implementing the rehabilitation of the existing facilities and the strengthening of farmers' organizations in order to transfer the management of irrigation facilities to the farmers. However, the pace of implementation slowed down considerably owing to the succession of political and economic destabilization.  (FY1991 Overseas Survey) The Government of the Philippines is still awaiting the financing of the project.																																			
8.DATE OF S/W	Feb.1982			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="text-align: center;">Improvement</td> <td style="text-align: center;">Construction</td> <td style="text-align: center;">Total</td> </tr> <tr> <td>(1) Head Work</td> <td style="text-align: center;">3</td> <td style="text-align: center;">-</td> <td style="text-align: center;">4 places</td> </tr> <tr> <td>(2) Canal</td> <td style="text-align: center;">161</td> <td style="text-align: center;">110</td> <td style="text-align: center;">271 km</td> </tr> <tr> <td>(3) Canal Structures</td> <td style="text-align: center;">2866</td> <td style="text-align: center;">166</td> <td style="text-align: center;">3032 Places</td> </tr> <tr> <td>(4) Drainage Canal</td> <td style="text-align: center;">189</td> <td style="text-align: center;">14</td> <td style="text-align: center;">202 km</td> </tr> <tr> <td>(5) Drainage Canal Structures</td> <td style="text-align: center;">16</td> <td style="text-align: center;">38</td> <td style="text-align: center;">54 places</td> </tr> <tr> <td>(6) Road</td> <td style="text-align: center;">263</td> <td style="text-align: center;">23</td> <td style="text-align: center;">286 km</td> </tr> <tr> <td>(7) On-farm Facilities</td> <td style="text-align: center;">29374</td> <td style="text-align: center;">5591</td> <td style="text-align: center;">34965 ha</td> </tr> <tr> <td>(8) Ratio of Water Charge Collection:</td> <td style="text-align: center;">Present 60%</td> <td style="text-align: center;">Future 81%</td> <td></td> </tr> </table>					Improvement	Construction	Total	(1) Head Work	3	-	4 places	(2) Canal	161	110	271 km	(3) Canal Structures	2866	166	3032 Places	(4) Drainage Canal	189	14	202 km	(5) Drainage Canal Structures	16	38	54 places	(6) Road	263	23	286 km	(7) On-farm Facilities	29374	5591	34965 ha	(8) Ratio of Water Charge Collection:	Present 60%
	Improvement	Construction	Total																																						
(1) Head Work	3	-	4 places																																						
(2) Canal	161	110	271 km																																						
(3) Canal Structures	2866	166	3032 Places																																						
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(7) On-farm Facilities	29374	5591	34965 ha																																						
(8) Ratio of Water Charge Collection:	Present 60%	Future 81%																																							
9.CONULTANT(S)	Sanyu Consultants Inc. Kyowa Engineering Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 17.53 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)																																			
10.STUDY TEAM	No.of Members 21 Period Sep.1982-Feb.1984 (17 months)	Conditions and Development Impacts: [Conditions] - Exchange rate 1US\$=110pesos - Project life 50 years - Replacement of pumps every 20 years. O & M equipments 10 years - Cost reduction through repair of facilities and improvement of maintenance and management function - Increase of profit by introduction of field crops  [Development Impacts] - Effective use and improvement of O & M of the national irrigation systems - Increase of agricultural production - Establishment and strengthening of water users' association, and effective use of water on farm level - Improvement and strengthening of O & M of NIA's O & M organization - Lift up the living standard of farm households				2.MAJOR REASONS FOR PRESENT STATUS																																			
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td>Total M/M</td> <td style="text-align: center;">79.05</td> <td style="text-align: center;">14.11   64.94</td> </tr> </table>						Japan	Field	Total M/M	79.05	14.11   64.94	3.PRINCIPAL SOURCE OF INFORMATION		All of the public investment has been delayed due to the deterioration of the Philippine economy.  ①②																											
	Japan	Field																																							
Total M/M	79.05	14.11   64.94																																							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER																																							
12.EXPENDITURE		- transfer to NIA - group training																																							
	Total 183,882 (¥'000)																																								
	Contracted 204,964																																								

和名 かんがい組織維持管理強化計画 (AMRIS, 18地区)

(F/S,D/D)



# PROJECT SUMMARY (Other)

Compiled Mar.1990  
Revised Mar.1994

ASE PHL/S 602/83

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		Surrounding area of Mayor Volcano in the southeast of Luzon			2.PROJECT COST	(Description) The following construction works in the southern slope proposed for the 1st stage were carried out by local fund. Quiranqay River : Training Levee No.2 Anuling River : Training Levee No.2, No.3 and No.4 Pawa-Burabod River : Training Levee No.5 and No.6  Mayon Volcano erupted and the huge debris flow (10 million cu.m) occurred in 1984. OECF was requested in 1989 (16th loan) to finance the construction including the eastern slope and the emergency works, but the application was turned down.  (FY 1991 Overseas Survey) No additional information.  (FY 1993 Overseas Survey) Mayon Volcano Sabo and Flood Control Project (Re-Study): Plans and Programs proposed in the study have been recommended for implementation to OECF Yen credit package but OECF evaluated that it should be wait until lying dormant.				
Mayon Volcano Sabo and Flood Control Project (Re-Study)							Total Cost    Local Cost    Foreign Cost (US\$1,000)            1)            20,190            14,690            5,500 (US\$1=8P)            2)			
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)								
Social Infrastructures/River & Erosion Control		The Government of the Philippines tried to promote the implementation of the Mayon Volcano Sabo and Flood Control Project proposed by the Master Plan Study in March 1981, but the typhoon of June 1981 seriously affected the Project Area. The present study was undertaken to review the proposals of the Master Plan Study and identified emergency measures, including a detailed design of the top priority sabo works.  1st stage Sabo works (Training levee, slur dike, consolidation dam and sobo dam) : Quiranqay River, Masarawaq River, Nasisi River, Anuling River (1), Anuling River (2), Budiao River, Pawa-Burabad River  1st stage Disaster Prediction and Warning System								
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS								
5.TYPE OF STUDY		The implementation of this project will contribute to the protection of the people's livelihood in the region suffered from the disaster due to debris flow, so that the social stability and the better livelihood will be insured.								
6.COUNTERPART AGENCY		5.technical TRANSFER								
Dept. of Public Works and Highways (DPWH)		(1) The lecture of sabo technology for the counterparts was held in the local office. (2) The training of sabo, hydrology, river engineering and surveying was carried out								
7.OBJECTIVES OF STUDY		3.PRINCIPAL SOURCE OF INFORMATION								
Sabo plan for the area of southern slope of Mayon Volcano based on the disaster due to typhoon Daling in 1981		①②③								
8.DATE OF S/W		2.MAJOR REASONS FOR PRESENT STATUS								
Feb.1982										
9.CONSULTANT(S)		12.EXPENDITURE								
Nippon Koei Co., Ltd. Sabo Technical Center		Total                    144,352 (¥000) Contracted            138,421								
10.STUDY TEAM										
No.of Members    12 Period Jun.1982-Mar.1983(10 months)										
<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">56.63</td> <td style="text-align: center;">33.03</td> <td style="text-align: center;">23.60</td> </tr> </table>		Total M/M	Japan	Field	56.63	33.03	23.60			
Total M/M	Japan	Field								
56.63	33.03	23.60								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY										

和名 マヨン火山砂防計画

(M/P, Basic Study, Other)

# PROJECT SUMMARY (M/P)

Compiled Mar.1988  
Revised Mar.1994

ASE PHL/S 105/84

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS						
1.COUNTRY	Philippines	1.SITE OR AREA	Infanta, Real, and Nakar, Quezon, Luzon 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	Infanta - Real Area Urban Development Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) In January 1988, the scope of work (F/S) on Infanta-Famy road and urban core development was signed by JICA. The rehabilitation of the Infanta-Famy road is financed by ADB, and currently under construction.  (FY 1993 Overseas Survey) Infanta-Real Area Urban Development Project:  Feasibility studies eliminate in March 1991 was a reason of the peace and order situation in the study area. In the meantime, implementation agency; Human Settlement Development Corporation, of this project close during Akino government and appointed of its function to SIDCOR; Strategic Investment Development Corporation, as of maintenance agency and LIVECOR as of new project agency conducted by former agency. MEDA Region IV is conducting project coordination for public investment related of the project and completed feasibility study of major road project and looking for financial source.					
3.SECTOR	Social Infrastructures/Urban Planning & Land Development	(US\$1,000)	1) 615,000								
4.REFERENCE NO.		(US\$1=20P)	2)								
5.TYPE OF STUDY	M/P	3.CONTENT(S) OF MAJOR PROJECT(S)									
6.COUNTERPART AGENCY	Human Settlement Development Corporation	(1) Improvement of transport conditions (2) Development of regional natural resources (fishery)									
7.OBJECTIVES OF STUDY	Master plan for the urban development in Infanta-Real area upon establishing the development strategy and target.	4.CONDITIONS AND DEVELOPMENT IMPACTS									
8.DATE OF S/W	Apr.1983	A master plan was undertaken for development, improvement and preservation of the study area in conjunction with the national and regional programs of the nation. In formulating the concept plan, proper urban functions were established and the kind and scale of development was reviewed taking into account the functional roles of the study area in development concept of the eastern Manila and eastern seaboard.									
9.CONSULTANT(S)	Yachiyo Engineering Co., Ltd.	5.TECHNICAL TRANSFER									
10.STUDY TEAM	No.of Members 15 Period Jul.1983-Mar.1985(21 months)	(1) Acceptance of trainees: One <1> counterpart (2 months) (2) Use of Local consultant: Social, economic and financial analysis									
	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Total M/M</td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> </tr> <tr> <td style="text-align: center;">75.26</td> <td style="text-align: center;">5.40</td> <td style="text-align: center;">69.86</td> </tr> </table>	Total M/M	Japan	Field	75.26		5.40	69.86	2.MAJOR REASONS FOR PRESENT STATUS		
Total M/M	Japan	Field									
75.26	5.40	69.86									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		3.PRINCIPAL SOURCE OF INFORMATION			①③						
12.EXPENDITURE											
	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">221,634 (¥000)</td> </tr> <tr> <td style="width: 15%;">Contracted</td> <td style="width: 15%;">212,283</td> </tr> </table>	Total	221,634 (¥000)	Contracted	212,283						
Total	221,634 (¥000)										
Contracted	212,283										

和名 インファンタ・リアル都市開発計画

(M/P, Basic Study, Other)

# PROJECT SUMMARY (M/P)

Compiled Mar.1990  
Revised Mar.1994

ASE PHL/A 101/84

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 checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Nationwide Ice Plants and Cold Storages Network System	1.SITE OR AREA	Nationwide		(Description)	The Government of the Philippines requested in 1985 for the Engineering Service(E/S) of this program by the 13th OECF loan and the L/A (175 million yen) was signed in May 1985. The political change at the beginning of 1986 affected all projects and this project was also postponed. The project was subsequently combined with another program (Fish Transport System) which was proposed by the JICA study undertaken during 1988 - 1989, and the OECF-financed E/S was completed in 1989 by the Pacific Consultants International. The E/S selected 4 zones (Camarines Norte, Iloilo, South Cotabato and Zamboanga del Sul) and one prototype (Camarines Sul) out of 11 zones and 52 prototypes in the master plan study and conducted the follow-up study and detailed design and prepared tender documents.  (FY1991 Overseas Survey) Based on the E/S, the Government of the Philippines included this combined project to the application list for the 17th Yen Credit Package. The project was not approved, but the Philippine Fishery Development Authority (PFDA) plans to reapply for the 18th Yen Credit Package. The PFDA formulated a pilot project, the Integrated Fish Trading Complex, on the basis of the project and submitted its proposal for grant aid to the Japanese Government. The request was not successful.  (FY1993 Overseas Survey) In 1993 PFDA packaged a project proposal based on the M/P and E/S and submitted it to the NEDA for consideration under the 19th Yen Credit Package. However, it was not favorably considered.						
3.SECTOR	Fisheries/General	2.PROJECT COST	(US\$1,000)	Total Cost 1) 57,284 2) US\$1=240Yen			Local Cost 50,761	Foreign Cost 6,523				
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)			Selected 11 zone centres and 49 prototype sites from the priority area in the Philippines and designed the facilities upon the situation of each site. Each zone has zone centre and sub-centres.  Major components are listed as follows: 1.Basic facilities ice making plants, ice storage, freezer, freezing room, generator and mobile ice plant. 2.Supporting facilities ice transport vehicle/vessel, spare parts, warehouse for spare parts, workshop/equipment, management office lodging house and communication equipment 3.Infrastructure Land reclamation/consolidation, tube-well and other water supply facilities, electric distribution line, parking lot and access road.							
5.TYPE OF STUDY	M/P	4.CONDITIONS AND DEVELOPMENT IMPACTS										
6.COUNTERPART AGENCY	Department of Agriculture	Conditions: 1.Project life was assumed to last until 2020. 2.Discount rate was assumed to be 20%. 3.Prices based on 1984. Development Impacts: 1.Direct benefits 1)Reduction of fish spoilage. 2)Shifting the time and location of fish sales 3)Increase of fish exports 2.Indirect benefits 1)Income increase of fishermen due to upgrading of value of fish 2)Development and effective use of fisheries resources 3)Creation of employment opportunities 4)Acceleration of rural development 5)Acquisition of new technics and organizing fishermen's association 6)Effective use of MFP			2.MAJOR REASONS FOR PRESENT STATUS							
7.OBJECTIVES OF STUDY	To formulate a M/P for the IPCS Network System	10.STUDY TEAM			3.PRINCIPAL SOURCE OF INFORMATION  ①②③							
8.DATE OF S/W	Aug.1983	No.of Members 11 Period Nov.1983-Mar.1985(17 months)										
9.CONSULTANT(S)	System Science Consultants	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Total M/M</th> <th style="text-align: left;">Japan</th> <th style="text-align: left;">Field</th> </tr> </thead> <tbody> <tr> <td style="text-align: right;">65.04</td> <td style="text-align: right;">15.60</td> <td style="text-align: right;">49.44</td> </tr> </tbody> </table>			Total M/M	Japan	Field	65.04	15.60	49.44	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Nil	
Total M/M	Japan	Field										
65.04	15.60	49.44										
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">167,813 (P'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">156,761</td> </tr> </tbody> </table>	Total	167,813 (P'000)	Contracted	156,761	5. TECHNICAL TRANSFER						
Total	167,813 (P'000)											
Contracted	156,761											
		- Acceptance of trainees - Joint work related to creation of report										

和名 水産物流通システム整備計画

(M/P, Basic Study, Other)

# PROJECT SUMMARY (F/S)

Compiled Mar.1988  
Revised Mar.1994

ASE PHL/S 316/84

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Philippines	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY	Philippine Road Disaster Prevention Project	1)San Jose - Aritao (Northern Luzon) 2)Mahaplag - Soqod (Leyte) 3)Rosario - Baguio (Northern Luzon)						
3.SECTOR	Transportation/Fish Processing	2.PROJECT COST		Total Cost	Local Cost	(Description) (FY1992 Overseas Survey) After the construction of the Pan-Philippine Highway started in 1969, the pavement has deteriorated and numerous bridges also have shown signs of wear and tear. Disaster spots are found especially along mountainous sections of the Highway. The progress of the construction to rectify the deficiencies is as follows. 1. Dalton Pass (78km) May 1988 OECF loan (Ph-P93) L/A signed (Special Rehabilitation 14,003 million yen) Project: Rehabilitation of Laoag - Allacapan Allacapan - Aritao - Sta. Rita, and Calamba - Calauag Sections. Feb.1990 - May 1991 Detailed design (Pavement, Bridge, drainage & disaster prevention) on the Aritao - Santa Rita Section (200km) completed (Katahira & Engineers) Total investment 1,017.3 million pesos (OECF835.5 million, GOP181.8 million) Jun.1991 Construction commenced (scheduled to be completed in Jan.1996) 2. Mahaplag - Soqod (37km) No funding has been secured. 3. Kennon Road (34km) Jan.1988 OECF loan (Ph-P77) L/A signed (Kennon Road Disaster Prevention 2,254 million yen) Jul.1989 - Feb.1991 Detailed design (Pavement, Bridges, drainage & disaster prevention) completed (Nippon Koei). Because of the 1990 earthquake, the loan was cancelled. GOP has requested Japanese finance for an alternative road.  (FY1993 Overseas Survey) Dalton Pass (Sta. Rita-Aritao) Scheduled to be completed in April 1996.		
4.REFERENCE NO.		(US\$1,000)	1)	26,300	10,200			
5.TYPE OF STUDY	F/S	(US\$1=234.3Yen)	2)					
6.COUNTERPART AGENCY	Ministry of Public Works and Highways	3)	3.CONTENTS OF MAJOR PROJECT(S)					
7.OBJECTIVES OF STUDY	Formulation of disaster prevention measures for 3 selected sections of national highways	Protection of Shoulder slope: 1)Dalton Pass Section 77 km 2)Mahaplag - Soqod 37 km 3)Kennon Road 34 km Total 148 km - Surface drain - Subsurface drain - Re-cutting - Slope protection - Structural Work - Sabo Dam  Note) Large scale riparian and Sabo works were excluded.						
8.DATE OF S/W	Feb.1983	Imp. Period: Jul.1987-Jun.1990						
9.CONSULTANT(S)	Nippon Engineering Consultants Co., Ltd. Katahira & Engineers International	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 18.40   FIRR1) EIRR2) 14.40   FIRR2) EIRR3) 16.60   FIRR3)			
10.STUDY TEAM	No.of Members 8 Period May.1983-Jun.1984 (13 months)	Conditions and Development Impacts: Conditions: (1)Traffic projections for 1990, 2000 and 2010 are estimated. (2)Traffic stoppage due to road disasters are 16 days/year for Dalton Pass, 60 days for Mahaplag, and 18 days for Kenon.  Development impacts: (1)Better access to isolated areas. (2)Recovery of road reliability. (3)Stimulation of private investments. (4)Saving of rehabilitation costs.  Note) The above EIRRs indicate 1)Dalton Pass Section, 2) Mahaplag-Soqod, 3)Kennon Road.					2.MAJOR REASONS FOR PRESENT STATUS  - large impact - high priority	
Total M/M                  Japan                  Field 1.75                  54.11		5. TECHNICAL TRANSFER		OJT and JICA training program for counterparts				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological and topographic surveys							
12.EXPENDITURE	Total 181,268 (¥'000) Contracted 160,257							

和名 道路防災計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

Compiled Mar.1988  
Revised Mar.1994

ASE PHL/S 314/84

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Philippines	1.SITE OR AREA		Northern Luzon (Region I)		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Development Project of the Port of San Fernando	2.PROJECT COST		Total Cost	Local Cost		
3.SECTOR	Transportation/Port			(US\$1,000)	1) 18,400	7,345	
4.REFERENCE NO.				(US\$1=14P)	2)		
5.TYPE OF STUDY	F/S				3)		
6.COUNTERPART AGENCY	Philippine Ports Authority	3.CONTENT(S) OF MAJOR PROJECT(S)		Wharf (Pier -10 - -14m) 900m		(Description) The project was suspended after completion of F/S. Jul. 1990 Port facilities were damaged by the earthquake Aug. 1990 Construction of Pier 2 was started with own funds according to the result of JICA study Feb. 1991 Construction of Pier 1 was started with own funds  (FY 1991 Overseas Survey) The project is likely to be revived when the financing constraints are eased, but there is no prospect of securing funds.  (FY1993 Overseas Survey) The Port Project has not been updated yet after JICA study.	
7.OBJECTIVES OF STUDY	Preparation of Master Plan (Target year 2000) and Short-term Development Plan (Target year 1990).			4,500sq.m   Transit Sheds   32,000sq.m 12,000sq.m   Open Storage Yard   12,000sq.m   Roads			
8.DATE OF S/W	Oct.1982	Imp. Period:		Jan.1987-Dec.1989			
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 22.90   FIRR1) 4.10 EIRR2)   FIRR2) EIRR3)   FIRR3)		
10.STUDY TEAM	No.of Members 9 Period Feb.1983-Mar.1984(14 months)			Conditions and Development Impacts: Estimated cargo volume in 1990 and 2000 are: 1990 1,900 thousand tonnes 2000 3,700 thousand tonnes The development of this promotes the port activities and contributes to the regional development in and around Region I, as there is no large scale port in this region.			
	Total M/M   Japan   Field 58.77   38.40   20.37					2.MAJOR REASONS FOR PRESENT STATUS	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Natural Conditions Survey					(1) Shortage of finance Alternation from the Marcos Government to the new Government (2) (3) Problem of purchasing land (4) Alternation in the amount of cargo and contents  (FY 1991 Overseas Survey) (1) Technical or environmental problems. (2) Review or new study is required.	
12.EXPENDITURE	Total 128,037 (¥'000) Contracted 129,003	5.technical transfer		Counterpart training for method of feasibility study to two counterparts		3.PRINCIPAL SOURCE OF INFORMATION	
						①②	

和名 サンフェルナンド港整備計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

Compiled Mar.1988  
Revised Mar.1994

ASE PHL/S 315/84

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT					
1.COUNTRY	Philippines	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY		Covering the whole country									
Development Project on the Meteorological Telecommunication System		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost					
		(US\$1,000)	1)	18,626	2,206	16,421					
		(US\$1=238Yen)	2)								
			3)								
3.SECTOR		3.CONTENTS OF MAJOR PROJECT(S)				(Description) The project is under implementation with OECF financing.  Jan.1988 OECF E/S loan agreement (308 million yen) Sep.1989 D/D completed Feb.1990 OECF loan agreement (4,986 million yen)  (FY1993 Overseas Survey) Jul.1990 - Dec. Additional D/D Jun.1992 Construction started. Aug.1994 Scheduled to be completed Aug.1995 O&M Guidance Serviced to end.					
Transportation/Meteorology & Seismology		- Telecom. facilities (1) Main Trunk Line: About 950km between Luzon Island and Mindanao Island (2) Branch Lines: Lines connecting each station  - OH transmitter/receiver, VHF and HF transmitter/receiver, Facsimile, Minicomputer etc. - Standby power supply. - Buildings and antenna of each relay station, access-road Meteorological observation facilities.									
4.REFERENCE NO.											
5.TYPE OF STUDY		F/S									
6.COUNTERPART AGENCY		Philippine Atmospheric Geophysical and Astronomical Services Adm. Ministry of Defence (at F/S time)									
7.OBJECTIVES OF STUDY		Establishment of Meteorological Telecommunication System									
8.DATE OF S/W		Nov.1982									
9.CONSULTANT(S)		Japan Weather Association									
10.STUDY TEAM		Imp. Period: Sep.1988-Feb.1995  4.FEASIBILITY AND ITS ASSUMPTIONS    Feasibility: Yes EIRR1) 51.90    FIRR1) EIRR2)            FIRR2) EIRR3)            FIRR3)									
No.of Members    13 Period Aug.1983-Sep.1984 (14 months)  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">80.00</td> <td style="text-align: center;">33.00</td> <td style="text-align: center;">47.00</td> </tr> </table>		Total M/M	Japan	Field	80.00			33.00	47.00	Conditions and Development Impacts: Conditions - Benefits are calculated on the condition that rate of natural disaster decrease is 5%. - Completion of the Project is in 1995. - Eight years is required for acquisition of technological knowledge by the staff concerned. - Replacement of the equipment to be made every 10 years.  Development Impacts - Mitigation of meteorological disasters - Improvement of the safe operation of aircrafts and ships - Improvement of the agricultural production development of related sectors (tourism, commerce, industry, etc.)	
Total M/M	Japan	Field									
80.00	33.00	47.00									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY											
12.EXPENDITURE		5. TECHNICAL TRANSFER									
Total		261,238 (¥000)				3.PRINCIPAL SOURCE OF INFORMATION					
Contracted		209,692				①②④					
		Technical guidance relating to telecommunication, data exchange system and observation system has been given to two (2) F/S counterpart officials.									
						2.MAJOR REASONS FOR PRESENT STATUS					
						(1) Greatness of project impact - Mitigation of meteorological disasters - Economic impacts resulting from mitigation of transportation disasters (2) High priority of the project					

和名 気象通信網整備計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

ASE PHL/A 310/84

Compiled Mar.1990  
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT					
1.COUNTRY	Philippines	1.SITE OR AREA		Southwestern Pampanga river basin, Pampanga Province, Central Luzon		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY		2.PROJECT COST		Total Cost	Local Cost			Foreign Cost			
Gumain River Irrigation Project		(US\$1,000)		1) 197,714	80,928	116,786					
				2) US\$1=14P							
				3)							
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)				(Description) (FY1991 Overseas Survey) No financial arrangement is expected. After performing a re-study, the Government of the Philippines suspended the project implementation.					
4.REFERENCE NO.		1. Irrigation area: 16,750 ha 2. Gumain dam: (Type) Rockfill (crest length) 43.5m (Height) 108.0m 3.Intake weir: (proposed) 1 (rehabilitation) 3 4.Head race: 13.6 km 5.Irrigation canal (main) 28.8 km (Branch) 169.6 km									
5.TYPE OF STUDY	F/S										
6.COUNTERPART AGENCY	National Irrigation Administration										
7.OBJECTIVES OF STUDY	Feasibility study for Gumain River Basin irrigation and drainage project										
8.DATE OF S/W	Feb.1983	Imp. Period:		Jan.1986-Dec.1992							
9.CONSULTANT(S)	Nippon Koei Co., Ltd. Nippon Giken Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 12.80 EIRR2) EIRR3)						
		Conditions and Development Impacts: Conditions: Project benefits are estimated based on the difference in net agricultural product between with and without the project. Because a large part of the proposed area is not used for agricultural products, negative externalities of the dam construction (e.g. submerged area) are not considered. Development impacts: Increase in agricultural products, food supply, income level in the agricultural sector, and land productivity, etc.									
10.STUDY TEAM	No.of Members 15 Period Jul.1983-Feb.1985(20 months)					2.MAJOR REASONS FOR PRESENT STATUS (FY 1992 Overseas Survey) Damage caused by the eruption of Mt. Pinatubo.					
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">72.96</td> <td style="text-align: center;">33.75</td> <td style="text-align: center;">39.21</td> </tr> </table>	Total M/M	Japan	Field	72.96			33.75	39.21		
Total M/M	Japan	Field									
72.96	33.75	39.21									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic mapping										
		5. TECHNICAL TRANSFER		Technology transfer to counterparts in the course of the study.		3.PRINCIPAL SOURCE OF INFORMATION ②③					
12.EXPENDITURE											
	Total	267,250 (¥'000)									
	Contracted	258,015									

和名 グマイン川灌漑開発計画

(F/S,D/D)

# PROJECT SUMMARY (M/P)

Compiled Mar.1988  
Revised Mar.1994

ASE PHL/S 107/85

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 checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Metro Manila Transportation Planning	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) 1) The database prepared by the study has been intensively used by DOTC, DPWH and Transport Training Center. The database has not been adequately updated, although the manuals were prepared. 2) The public transport route management system based on PC has been officially introduced to DOTC's planning administration system. The system is being utilized but the inadequate database updating affects the quality of planning. 3) Rerouting plans were partly implemented during the study period. Rerouting of jeepneys along the LRT corridor was not wholly implemented due to political reasons. However, the proposed integration of bus/jeepney routes was implemented and the official updated route list was prepared. 4) Development plans for the mode interchange areas have not been properly followed up by the government. However, in response to recent rises in land price and improved opportunities for urban development, the plans are being reviewed to revive the possibility of implementing the recommendations.  (FY1993 Overseas Survey) In 1991, the DOTC has proposed the updating of the database prepared under the study through the Metro Manila Urban Transport Integration Study (MMUTIS), also for JICA assistance. It has not been selected as it is tied up with the IBRD-assisted Urban Transport Development Project (UTDP), which the DOTC has to complete.						
3.SECTOR	Transportation/Urban Transportaion	(US\$1,000)	1) 40,212									
4.REFERENCE NO.		3.CONTENTENTS OF MAJOR PROJECT(S)										
5.TYPE OF STUDY	M/P	1) A detailed bus/jeepney rerouting plan for the area served by LRT Line 1, and related plans of detailed traffic management, road and public transport facilities 2) A bus/jeepney route management system and improved traffic management plans for bus/jeepney terminal areas in Metro Manila 3) Development plans for five mode interchange areas: a) Divisoria (large-scale transport/commercial/cultural facilities complex for LRT, bus/jeepney); b) Recto (large-scale transport/commercial/cultural facilities complex for LRT Lines 1 and 2, bus/jeepney); c) Cubao (large-scale transport/commercial/business complex for LRT Line 2, bus/jeepney); d) C3/Quezon Avenue (medium-scale transport/commercial complex for bus/jeepney); e) Novaliches (small-scale transport/commercial facility development in suburbs for bus/jeepney/tricycle) 4) Transport database management methods and system										
6.COUNTERPART AGENCY	Ministry of Transportation and Communications	4.CONDITIONS AND DEVELOPMENT IMPACTS										
7.OBJECTIVES OF STUDY	Transportation rerouting plan Transportation development policy	(1) Rerouting Conditions: Strengthening of bus/jeepney route management capabilities of related government agencies; Development of public transport facilities to lead bus/jeepney operators. Effects: Rationalized public transport operation by functional split of the LRT/bus/jeepney; Effective utilization of available road space and facilities (2) Mode Interchange Area Development Conditions: Government financial support or incentives for transport terminal development; Adjustment of land rights and acquisition in the builtup area Effects: Effective land use in the mode interchange areas; Increased transport services by the improved traffic flow, convenience, safety, etc. (3) Transport Database Management Method Conditions: Commitment of relevant agencies; Periodic database updating system Effects: Improved efficiency in planning and administration										
8.DATE OF S/W	Jul.1982	5. TECHNICAL TRANSFER										
9.CONSULTANT(S)	ALMEC Corporation	1) OJT: A series of seminars on the use of PCs for transportation planning ; 2) Counterpart training (two); 3) Employment of local consultants (cost estimate and systems analysis); 4) Donation of PCs & softwares										
10.STUDY TEAM	No.of Members 15 Period Oct.1982-Mar.1984 (31 months) Jun.1984-Sep.1985 <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">158.68</td> <td style="text-align: center;">13.56</td> <td style="text-align: center;">145.12</td> </tr> </table>	Total M/M	Japan	Field	158.68		13.56	145.12	2.MAJOR REASONS FOR PRESENT STATUS			
Total M/M	Japan	Field										
158.68	13.56	145.12										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	transport surveys and systems analysis	3.PRINCIPAL SOURCE OF INFORMATION			①②							
12.EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">490,159 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">468,192</td> </tr> </table>	Total	490,159 (¥'000)	Contracted	468,192							
Total	490,159 (¥'000)											
Contracted	468,192											

和名 マニラ首都圏都市交通計画 (フェーズIおよびII)

(M/P, Basic Study, Other)



# PROJECT SUMMARY (M/P)

Compiled Mar.1988  
Revised Mar.1994

ASE PHL/S 106/85

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Philippines	1.SITE OR AREA	Panay Basin, Copig Province, Panay 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	Panay River Basin-Wide Flood Control	2.PROJECT COST	Total Cost	Local Cost	(Description) The feasibility study of the priority projects selected by the Master Plan Study has been delayed because its priority in the central government is not very high. However, necessity of the flood control component in particular is recognized by local people and the projects are believed to enhance vital economic activities in the region. Further, imbalance of the development within Visayas increased due to the recent acceleration of investment in Cebu. Therefore, the priority projects in Panay Island are considered as one of the key components in the region-wide development plan.  (FY 1991 Overseas Survey) The Terms of Reference for a JICA study was submitted to NEDA and JICA for possible technical assistance. The project was included in the Medium-term Public Investment Program (MIP) and the Medium-term Technical Assistance Program.  (FY 1993 Overseas Survey) Panay River Basin-Wide Flood Control: Recommendations to the Regional Development Council have been made for the pursuance of the detailed design of the project. The Terms of Reference for a JICA study was submitted to NEDA and JICA for possible technical assistance. The project was included in							
3.SECTOR	Social Infrastructures/River & Erosion Control	(US\$1,000)	1) 323,000	195,000			128,000					
4.REFERENCE NO.		(US\$1=234Yen)	2)									
5.TYPE OF STUDY	M/P	3.CONTENTENTS OF MAJOR PROJECT(S)										
6.COUNTERPART AGENCY	Dept. of Public Works and Highways (DPWH)	(1) Flood control project: a. Improvement and enlargement of bankful 150km of floodways and river structures; b. Constructions of polder dikes at 7 towns/villages; c. Construction of a multipurpose dam (Panay B dam); d. Establishment of appropriate guidelines for flood plain management in areas vulnerable to floods of about 340 sq.km. in total and relocation of housing in these areas. (2) Irrigation projects: a. Development of 3,250ha by irrigation in Panitan-Panay area; b. Rehabilitation of irrigation facilities and expansion of arable areas in Mambusao to 2,145ha. (3) Water supply project: a. Supply of uncontaminated water from Panay river to Roxas City and increase the existing supply capacity by 7,450 cu.m. (4) Hydropower generation project: a. Construction of the Panay B power station with an installed capacity of 7,100 kW and an annual energy output of 31.4 Gwh.  * Above project costs are in 1984 prices.										
7.OBJECTIVES OF STUDY	Flood control	4.CONDITIONS AND DEVELOPMENT IMPACTS										
8.DATE OF S/W	Dec.1982	Flood control plan can, protect 340 sq.km in the basin which is equivalent of 1/4 of the area of potentially usable land, and 15% of the basin catchment area. Not only by flood control but also by irrigation and municipal and Industrial water supply, integrated land use in the basin will be promoted in the future. Although this project has a smaller economic impact than the present guideline of the Philippines (EIRR 15%), it is important to implement this project for rural economy as well as for flood control.										
9.CONSULTANT(S)	Nippon Koei Co., Ltd.	10.STUDY TEAM			2.MAJOR REASONS FOR PRESENT STATUS							
		No.of Members 18 Period Feb.1983-Nov.1985 (33 months)										
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">89.92</td> <td style="text-align: center;">21.65</td> <td style="text-align: center;">68.29</td> </tr> </table>			Total M/M	Japan	Field	89.92	21.65	68.29		
Total M/M	Japan	Field										
89.92	21.65	68.29										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION							
12.EXPENDITURE		(1) OPT: A seminar was held after the draft final report was submitted. (2) Trainee: Two trainees visited Japan. (3) Working with counterparts was conducted.										
		Total	414,927 (¥'000)									
		Contracted	241,418									

和名 パナイ河流域洪水防御基本計画

{M/P,Basic Study,Other}

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

Compiled Mar.1988  
Revised Mar.1994

ASE PHL/S 203B/85

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																					
1.COUNTRY	Philippines	1.SITE OR AREA		South-west Luzon  2.PROJECT COST (US\$1,000) (US\$1=19P) <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">M/P 1) 2)</td> <td style="width: 10%; text-align: center;">Local Cost</td> <td style="width: 10%; text-align: center;">Foreign Cost</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td style="text-align: center;">F/S 1) 2) 3)</td> <td style="text-align: center;">13,631</td> <td style="text-align: center;">5,684</td> <td style="text-align: center;">7,947</td> <td></td> </tr> </table>			M/P 1) 2)	Local Cost	Foreign Cost				F/S 1) 2) 3)	13,631	5,684	7,947		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled								
	M/P 1) 2)	Local Cost	Foreign Cost																								
	F/S 1) 2) 3)	13,631	5,684	7,947																							
2.NAME OF STUDY Development Project on the Port of Batangas		3.CONTENTES OF MAJOR PROJECT(S)		(Description)  Jan.1988    OECF E/S loan agreement (190 million yen) 1990        D/D completed Jul.1991    OECF loan agreement (5,788 million yen)  OECF financing: 1) Construction of wharves (22 berths) 2) Construction of breakwaters 3) Dredging and reclamation  (FY1993 Overseas Survey) Apr.1994 - Dec.1997    Phase I construction scheduled.  The squatter problem may cause the project to delay. The CALABARZON Integrated Regional Development Program includes this project as one of its infrastructure components.																							
3.SECTOR Transportation/Port		<M/P> Construction of 13 berths, in addition to the existing 4 berths.  Foreign trade: 2 berths(15,000DWT), 1 berth(30,000 DWT) Domestic trade: for Ro-Ro: 4 berths(700 DWT) for conventional domestic vessels: 6 berths for ferry: existing 4 berths  Wharf                1,570 m Dredging            1,414 thousand cu.m Land reclamation   731 thousand cu.m Road                 142 thousand sq.m  <F/S>11 berths in total are planned as follows:  Domestic Trade: for Ro-Ro                3 berths for miscellaneous 3 berths for ferry                                        4 berths  Wharf    (-10m)    185 m "     (-5m)    105 m "    (-5m,Pier) 105 m "    (-4.5m) 155 m Dredging                                        430,000 cu.m																									
4.REFERENCE NO.																											
5.TYPE OF STUDY M/P+F/S																											
6.COUNTERPART AGENCY Philippine Port Authority																											
7.OBJECTIVES OF STUDY Preparation of Master Plan (target year 2000) and short-term development plan (target year 1990)																											
8.DATE OF S/W Jun.1984																											
9.CONSULTANT(S) Overseas Coastal Area Development Institute of Ja																											
10.STUDY TEAM						4.FEASIBILITY AND ITS ASSUMPTIONS		Imp. Period: Jun.1986-Dec.1989  <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">Feasibility:</td> <td style="width: 10%; text-align: center;">EIRR1)</td> <td style="width: 10%; text-align: center;">35.00</td> <td style="width: 10%; text-align: center;">FIRR1)</td> <td style="width: 10%; text-align: center;">0.50</td> </tr> <tr> <td></td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">EIRR2)</td> <td></td> <td style="text-align: center;">FIRR2)</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">EIRR3)</td> <td></td> <td style="text-align: center;">FIRR3)</td> <td></td> </tr> </table>			Feasibility:	EIRR1)	35.00	FIRR1)	0.50		Yes	EIRR2)		FIRR2)				EIRR3)		FIRR3)	
	Feasibility:					EIRR1)	35.00	FIRR1)	0.50																		
	Yes			EIRR2)		FIRR2)																					
		EIRR3)		FIRR3)																							
<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">No.of Members</td> <td style="width: 15%; text-align: center;">10</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td></td> <td style="text-align: center;">Period</td> <td colspan="4">Sep.1984-Dec.1985(16 months)</td> </tr> <tr> <td></td> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> <td colspan="2"></td> </tr> <tr> <td></td> <td style="text-align: center;">76.49</td> <td style="text-align: center;">44.50</td> <td style="text-align: center;">31.99</td> <td colspan="2"></td> </tr> </table>			No.of Members	10					Period	Sep.1984-Dec.1985(16 months)					Total M/M	Japan	Field				76.49	44.50	31.99			Conditions and Development Impacts: <M/P><Conditions> The amount of cargo in the year of 2000 is estimated to be 3,063,000 tons, comprising 10,970,000 tons for Ro-Ro and ferries, 5,780,000 ton for foreign trade, and 13,880,000 tons for domestic trade. <Impacts> Batangas city is located approximately 100km south of Metro Manila. Economy of Batangas area including Batangas city is expected to grow accompany with the progress of Metro Manila. <F/S><Conditions> The estimated amount of port handling vargo in 1990 is estimated to be 8,710,000 tons. The item of 1)-3) of Development Impact was calculated as the benefit. All revenue and expenses are calculated at constant 1984 prices. <Impact> 1) The incremental valued added arising from cargo transportation. 2) The reduction of transportation costs between Bataugas and Calapan. 3) The saving of berth waiting costs.	
	No.of Members	10																									
	Period	Sep.1984-Dec.1985(16 months)																									
	Total M/M	Japan	Field																								
	76.49	44.50	31.99																								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Sounding survey, Shoreline survey, Geographical survey, Soil explorations		5.technical transfer		2.MAJOR REASONS FOR PRESENT STATUS																							
12.EXPENDITURE				3.PRINCIPAL SOURCE OF INFORMATION																							
<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total</td> <td style="width: 15%; text-align: center;">181,400 (¥'000)</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td></td> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">178,642</td> <td colspan="3">Counterpart training(3 persons) - Feasibility study method - Field survey of ports similar to Batangas port.</td> </tr> </table>			Total	181,400 (¥'000)					Contracted	178,642	Counterpart training(3 persons) - Feasibility study method - Field survey of ports similar to Batangas port.					①②④											
	Total	181,400 (¥'000)																									
	Contracted	178,642	Counterpart training(3 persons) - Feasibility study method - Field survey of ports similar to Batangas port.																								

和名 バタングス港整備計画

(M/P+F/S)

# PROJECT SUMMARY (F/S)

ASE PHL/S 318/85

Compiled Mar.1988  
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Philippines	1.SITE OR AREA		1) Lucena - Calawag (N.Luzon) 2) Allen - Calbayog (Samar) 3) Bauang - Baguio (N.Luzon)		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY Philippine Road Disaster Prevention Project, Stage II		2.PROJECT COST		Total Cost	Local Cost		
3.SECTOR Transportation/Fish Processing		3.CONTENTES OF MAJOR PROJECT(S)		(US\$1,000)	1)	3,725	1,438
4.REFERENCE NO.		Protection of shoulder slope:		2)	2)	2,287	2,287
5.TYPE OF STUDY		Lucena - Calawag 95.7 km		3)			
6.COUNTERPART AGENCY		Allen - Calbayog 72.9 km					
Ministry of Public Works and Highways		Naqilian Road 47.2 km					
7.OBJECTIVES OF STUDY		Total 215.8 km					
Formulation of disaster prevention measures for 3 selected sections of national highways		Earth Work					
8.DATE OF S/W		Drainage work: surface drain, subsurface drain					
Aug.1984		Slope protection work: concrete spraying etc.					
9.CONSULTANT(S)		Structural Work: anchoring etc.					
Nippon Engineering Consultants Co., Ltd. Katahira & Engineers International		Catch Work: anchor wire net etc.					
10.STUDY TEAM		Note) Large scale riparian and Sabo works were excluded.					
No.of Members 7		Imp. Period: Jan.1990-Aug.1991					
Period Sep.1984-Jul.1985 (9 months)		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1	16.00	FIRR1
Total M/M				EIRR2	14.40	FIRR2	EIRR3
Japan				EIRR3	15.40	FIRR3	
2.46				Conditions and Development Impacts:			
Field				Conditions:			
29.00				(1) Traffic projections for 1990, 2000 and 2010 are estimated.			
				(2) Road closure by disasters are 8 days/year for Lucena - Calawag, 9 days for Allen - Calbayog and 4 days for Naqilian Road.			
				Development impacts:			
				(1) Better access to isolated areas.			
				(2) Recovery of road reliability.			
				(3) Stimulation of private investments			
				(4) Saving of rehabilitation costs			
				Note) The above EIRRs indicate 1) Lucena-Calawag, 2) Allen-Calbayog, 3) Naqilian Road.			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					
Geological and topographic surveys		OJT and JICA training program for counterparts					
12.EXPENDITURE				2.MAJOR REASONS FOR PRESENT STATUS			
Total		99,822 (¥'000)		- large impact			
Contracted		93,173		- high priority			
				3.PRINCIPAL SOURCE OF INFORMATION			
				①②③④			

和名 道路防災計画ステージII

(F/S,D/D)

# PROJECT SUMMARY (F/S)

Compiled Mar.1988  
Revised Mar.1994

ASE PHL/S 317/85

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	Philippines	1.SITE OR AREA	Upstream reach of Agno River, middle Luzon island			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled						
2.NAME OF STUDY	San Roque Multi-Purpose Project (Re-Study)	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost								
		(US\$1,000)	1) 1,200,000										
		(US\$1=9.00P)	2)										
			3)										
3.SECTOR	Social Infrastructures/Water Resource Development	3.CONTENTS OF MAJOR PROJECT(S)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; text-align: center;">structure</td> <td style="width: 70%; text-align: center;">Scale</td> </tr> <tr> <td>Main Dam (filldam)</td> <td>Gross storage 990 million cu.m Effective storage 670 million cu.m</td> </tr> <tr> <td>Installed Capacity</td> <td>390MW</td> </tr> </table>				structure	Scale	Main Dam (filldam)	Gross storage 990 million cu.m Effective storage 670 million cu.m	Installed Capacity	390MW	(Description) Suspended after F/S.  Note: A hydroelectric power project is required in view of the large load demand in Luzon Island. The existing nuclear power station is not operated, and this raises the need for hydroelectric power generation. Although the proposed project is not included in the NPC list, the project is likely to be adopted if NPC decides to implement new projects.  (FY 1993 Overseas Survey) According to National power supply program, this project will have implemented from the year of 2001 and expecting to power supply from the year of 2004, thus this project has no progress unless project will composed through the BOT.
structure	Scale												
Main Dam (filldam)	Gross storage 990 million cu.m Effective storage 670 million cu.m												
Installed Capacity	390MW												
4.REFERENCE NO.													
5.TYPE OF STUDY	F/S												
6.COUNTERPART AGENCY	National Power Corporation (NPC)												
7.OBJECTIVES OF STUDY	- Review of hydrological study - Evaluation on quality of irrigation water												
8.DATE OF S/W	Oct.1983	Imp. Period:											
9.CONSULTANT(S)	Nippon Koel Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)								
10.STUDY TEAM	No.of Members 17 Period Nov.1983-Mar.1985(17 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">38.35</td> <td style="text-align: center;">12.69</td> <td style="text-align: center;">25.66</td> </tr> </table>	Total M/M	Japan	Field	38.35	12.69	25.66	Conditions and Development Impacts: 1. JICA preliminary study team pointed out to carry out additional investigations for the review of hydrological analysis and the evaluation of water quality. 2. Although there was a slight difference between the estimated low flow and those of F/S (by Italian Consultant), the scale of reservoir was proposed as the same of the F/S. 3. On the basis of the forecasted water quality in the reservoir, the increasing ratio of copper concentration in the soil of paddy field and the damage of crop were studied. The data shows that the damage will be tangible after 150 years.				2.MAJOR REASONS FOR PRESENT STATUS  (1) Domestic condition: change of political power, deficit of domestic fund.  (2) Others: Construction cost was estimated at over US\$ 1.2 billion so that it was difficult to secure finance.	
Total M/M	Japan	Field											
38.35	12.69	25.66											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER	1. Training in Japan (JICA trainee): 2 persons (first year) and 1 person (second year) 2. Supply of equipment and the instruction on operation.				3.PRINCIPAL SOURCE OF INFORMATION  ①③						
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">117,374 (¥000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">102,244</td> </tr> </table>	Total	117,374 (¥000)	Contracted	102,244								
Total	117,374 (¥000)												
Contracted	102,244												

和名 サンロケ多目的ダム開発計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

ASE PHL/A 311/85

Compiled Mar.1990  
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Philippines	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY		Asue river and adjacent basin (irrigated area: 6,760ha)						
Asue River Basin Agricultural Development Project		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost		
		(US\$1,000)	1)	38,470	16,927	21,543		
		US\$1=240Yen in Oct.1984		2)	72,813	40,408		
				3)	32,405			
3.SECTOR		3.CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1991 Overseas Survey) The Government of the Philippines has no plan to obtain finance for the project.		
Agriculture/General		Outside benefit area: Dam and appurtenant facilities, basin alteration channel, hydropower plant, transmission facilities, water service facilities Inside Benefit area: Asue weir, Bakabak weir, Gubaton weir, main irrigation canal and appurtenant facilities, Asue river improvement works, drainage canal, roads and appurtenant facilities, terminal facilities, rural community center.						
4.REFERENCE NO.		The Cost 1) above is based on the effective exchange rate as of Oct. 1984, and the Cost 2) includes price changes.						
5.TYPE OF STUDY		F/S						
6.COUNTERPART AGENCY		National Irrigation Authority						
7.OBJECTIVES OF STUDY		Integrated rural development in Asue and adjoining basin						
8.DATE OF S/W		Jan.1983						
9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 13.20			FIRR1) 9.70
Chuo Kaihatsu International Corp. Sanyu Consultants Inc. Tamano Consultants Co., Ltd.				EIRR2)	FIRR2)			
				EIRR3)	FIRR3)			
10.STUDY TEAM		Conditions and Development Impacts: Project impacts on national socio-economy: 1.Contribution to food self sufficiency 2.Contribution to national economy 3.Contribution to reduction of oil imports 4.Saving of foreign currency 5.Improvement of living standards and nutrition Project impacts on Project areas: 1.Stabilization of livelihood and increased income 2.Improvement of health, sanitation and living environment 3.Increase of employment opportunities 4.Strengthening of road network 5.Household electrification 6.Improvement of quality and marketability of farm products 7.Stabilization of domestic water supply 8.Community activities through community center 9.Improvement of farmer incentive to participate in project through irrigation facility O/M groups						
No.of Members 12								
Period May.1984-Aug.1985(16 months)								
Total M/M		Japan		Field				
70.43		31.26		39.17				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS		
		Training in Japan				(FY 1992 Overseas Survey) Economic and political circumstances.		
12.EXPENDITURE						3.PRINCIPAL SOURCE OF INFORMATION		
Total		225,492 (¥000)				①②③		
Contracted		210,094						

和名 アスエ川流域農業開発計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1994

ASE PHL/A 312/85

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Philippines	1.SITE OR AREA		Wariq River Basin of Bohol Islands Irrigation area 5,300ha, Drainage area 12,700ha		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY	Bohol Irrigation Development Project (Phase II)	2.PROJECT COST						Total Cost
3.SECTOR	Agriculture/General	(US\$1,000)		1) 36,556	14,333	22,222	(Description) The implementation of the proposed project was delayed. Part of the project area (Capayas 750ha) is being developed by the Japanese grant. Jul.1990 E/N signed (1,433 million yen) for the construction of a diversion weir, irrigation and drainage canals and on-farm facilities. Aug.1991 E/N signed (234 million yen) (FY1991 Overseas Survey) The project scale was reduced for implementation. The delayed construction of Bohol (I) is affecting the implementation of this Bohol (II) which will utilize the excess water from Bohol (I).	
4.REFERENCE NO.		US\$1=18P		2)				
5.TYPE OF STUDY	F/S	3)		3.CONTENTES OF MAJOR PROJECT(S)				
6.COUNTERPART AGENCY	National Irrigation Authority	1) Water Resources Development of Wariq River and other rivers in the area. 2) Arrangement of irrigation, drainage, farm roads and other on-farm facilities. Concretely, - Water resources development by Boyongan reservoir and Capayas reservoir - Irrigated areas of 5,300 ha and 3,540 ha in rainy season and dry season, respectively - Drinking water supply						
7.OBJECTIVES OF STUDY	Agricultural development plan with irrigation facilities	Imp. Period: Jan.1987-Dec.1991						
8.DATE OF S/W	Feb.1984	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 15.40	FIRR1)		
9.CONSULTANT(S)	Sanyu Consultants Inc. Nihon Suido Consultants Co., Ltd. Naigai Engineering Co., Ltd. Aero Asahi Cor.			EIRR2)	FIRR2)	2.MAJOR REASONS FOR PRESENT STATUS		
10.STUDY TEAM	No.of Members 12 Period Dec.1984-Feb.1985 (20 months)	Conditions and Development Impacts: 1) Improvement of Living Standard of Regional Farmers. 2) Supply of Drinking Water (3.9 l/s or 366 m <sup>3</sup> /day). 3) Production Increase of Rice, Beans, Groundnuts, Maize, Fruit to 29,900 ton, 420 ton, 710 ton, 1,130 ton, and 3,740 ton, respectively.						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER		To the counterpart in the process of implementation.				3.PRINCIPAL SOURCE OF INFORMATION
12.EXPENDITURE								
		Total		197,006 (¥000)			①②③	
		Contracted		189,602				

和名 ボホール灌漑開発計画 フェーズII

(F/S,D/D)

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

ASE PHL/S 204B/86

Compiled Mar.1990  
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Philippines	1.SITE OR AREA		Two cities (Angeles and Daqpan) and two groups of towns (Cabayao, Santa Rosa and Biniyan; Bayombong and Sorano)		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Municipal Water Supply Project	2.PROJECT COST (US\$1,000)	M/P 1) 2)				
3.SECTOR	Public Utilities/Timber Processing	(US\$1=20.50P)	F/S 1) 2) 3)	43,678	18,573	25,105	(Description) D/D was completed for Daqpan and Laoag. The project is under implementation with OECF financing.  Jan.1988 OECF loan agreement (1,272 million yen) Nov.1994 Construction to be completed  With regard to Angeles, D/D is underway with the 17th OECF finance.  May 1992 OECF loan agreement (1,094 million yen) 1992 Construction started Mar.1996 Construction to be completed  (FY1993 Overseas Survey) 1. The projects have been included in the Medium Term Public Investment Program, the objectives of which are to provide safe and adequate water supply and sanitation services and to raise the service ratio from the present 66% to 79% of the total population. 2. The following projects are under implementation with OECF financing. 1) PCWSP-I for Daqpan and Laoag: Total investment cost: 344.14 million pesos (foreign currency 1,272 million yen; local currency 26.14 million pesos) 2) PCWSP-II for Angeles City Total investment cost: 358.07 million pesos (foreign currency 1,094 million yen; local currency 84.57 million pesos)  3. Consultations with concerned local governments must be conducted during the early stage of the F/S in order to ascertain the institutional requirement of the project implementation and to avoid the problem like the Bayombong-Salano and Cabuyao-Sta. Rosa projects.
4.REFERENCE NO.		3.CONTENTIS OF MAJOR PROJECT(S)					
5.TYPE OF STUDY	M/P+F/S	<M/P> (1) Angeles City: Construction of 13 tube wells, 3 distribution reservoir and booster pumping station (2) Daqpan City: Construction of 19 tube wells, chlorinator, treatment facilities and transmission pipeline (3) Cabuyao-Sta. Rosa-Binan: Construction of new distribution reservoir, distribution pipeline and booster pumping station (4) Bayombong-Solano: Construction of radial well facilities, chlorinator, treatment facilities and transmission and distribution pipeline  <F/S> (1) Source Facility Phase I(1986-95) Phase II(1996-2010) test well 11 of deep wells (2) Transmission Facility Construction of Transmission line (3,500m) (1,300m) (3) Treatment Facility Chlorination Facilities Chlorination facilities (4) Distribution Facility Construction of Reservoir(2400sq.m) Extension of Reservoir to 7000sq.m Note: EIRRs and FIRRs below are for 1)Angeles, 2)Daqpan, 3)Cabuyao-Santa Rosa - Biniyan. EIRR and FIRR for Bayombong - Sorano are 13.5% and 4.3%.					
6.COUNTERPART AGENCY	Local Water Utilities Administration (LWUA)	Imp. Period: .1988-.1995					
7.OBJECTIVES OF STUDY	Formulation of a master plan for water supply in seven local cities and towns	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes EIRR1) 13.70 FIRR1) 17.60 EIRR2) 13.10 FIRR2) 6.00 EIRR3) 13.40 FIRR3) 12.30			
8.DATE OF S/W	Oct.1985	10.STUDY TEAM					
9.CONSULTANT(S)	Nippon Jogesuido Sekkei Co., Ltd.	No.of Members 10		Period Feb.1986-Mar.1987(14 months)			
		Total M/M		Japan	Field		
		40.97		19.93	22.04		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12.EXPENDITURE		5.TECHNICAL TRANSFER					
Total	163,499 (¥'000)	- On-the-job training on development planning and tube well construction - JICA training program for counterparts					
Contracted	149,175	3.PRINCIPAL SOURCE OF INFORMATION					
		①②④					

和名 地方都市上水道整備計画

(M/P+F/S)

# PROJECT SUMMARY (M/P)

ASE PHL/S 108/87

Compiled Mar.1990  
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS						
1.COUNTRY	Philippines	1.SITE OR AREA	Cagayan River Basin in Luzon Island, 27,300 sq.km		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued					
2.NAME OF STUDY	Cagayan River Basin Water Resources Development	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) A feasibility study had been planned by the DPWH immediately after the completion of this master plan study. However, the F/S was delayed due to the revolution in February 1987. The Government of the Philippines is requesting a feasibility study by JICA.  (FY 1991 Overseas Survey) Preparations for feasibility studies are being undertaken.  (FY 1993 Overseas Survey) Cagayan River Basin Water Resources Development:  Minor flood control works undertaken by the local fund conducted after completion of the master plan study. These include the construction of bank protection along the selected sections of Cagayan river and its tributaries.  DPWH conducted the following preparatory works for F/S 1) Core drilling survey completed in 1988 2) Hydrographic surveys completed 90% 3) Flood damage survey, occurred in 1989  Feasibility study for this project tentatively scheduled in 1998 but it deferred due to unfavorable peace and order and political instability.  The DPWH had continuously endorsed the feasibility study as one of its priorities for JICA technical assistance.					
3.SECTOR	Social Infrastructures/Water Resource Development	(US\$1,000)	1) 1,608,927								
4.REFERENCE NO.		(US\$1=20.5p)	2)								
5.TYPE OF STUDY	M/P	3.CONTENTS OF MAJOR PROJECT(S)									
6.COUNTERPART AGENCY	Department of Public Works and Highways	Master Plan : Target year 2005 (1) Multi purpose dam scheme Alimit : Storage volume 156 x 10 <sup>6</sup> m <sup>3</sup> , dam height 89 m Matuno : " 97 x 10 <sup>6</sup> m <sup>3</sup> , " 147 m Siffu : " 93 x 10 <sup>6</sup> m <sup>3</sup> , " 58 m Malliq : " 545 x 10 <sup>6</sup> m <sup>3</sup> , " 84 m (2) Flood control scheme Tuqueqarao dike scheme, Maqapit narrow improvement cabaqan dike scheme and bank erosion control scheme. (3) Agricultural development scheme Irrigation scheme 14 projects - Permanent crop land : 30,000 ha - Pasture land : 83,000 ha (4) Hydropower scheme Primary : Ibulao, Tanudan, and Diduyon Secondary (integrated with agricultural development) : Dummon, Paraman, Zinundungan									
7.OBJECTIVES OF STUDY	Master Plan of Water Resources	4.CONDITIONS AND DEVELOPMENT IMPACTS									
8.DATE OF S/W	Aug.1985	[Conditions] (1) Flood control projects were selected in order to yield flood control benefit of 10% of estimated total flood damage. (2) Agricultural development scheme was formulated to implement all irrigation projects upto year 2005. Development of permanent crop production, livestock farming and hiland cropping was included in the Master Plan. (3) Hydropower projects proposed by the Luzon Hydropotential Study (by JICA) were involved in the formulation of hydropower scheme. [Development Impacts] (1) Effects on regional water supply and demand balance Realization of stable water supply and flood control project will increase productivity of agriculture, industry and service industry. Eventually it is expected that livelihood standard of inhabitants becomes better. (2) Effects on regional socio-economy Implementation of projects will create numerous opportunity of employment and is expected to improve social security condition in the project area.  (FY 1993 Domestic Survye)									
9.CONSULTANT(S)	Nippon Koel Co., Ltd. Nikken Consultants., Inc.	5.TECHNICAL TRANSFER									
10.STUDY TEAM	No.of Members 15 Period Oct.1985-Aug.1987(23 months)	(1) 4 special OJT (2) 2 OJT in Japan (3) To finalize report with counterpart									
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td style="text-align: center;">140.97</td> <td style="text-align: center;">72.29</td> <td style="text-align: center;">68.68</td> </tr> </table>	Total M/M	Japan	Field	140.97		72.29	68.68	2.MAJOR REASONS FOR PRESENT STATUS		
Total M/M	Japan	Field									
140.97	72.29	68.68									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					Worsening security problems.						
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION									
Total	446,671 (¥'000)				①②③						
Contracted	344,969										

和名 カガヤン河流域水資源開発基本計画

(M/P, Basic Study, Other)



# PROJECT SUMMARY (M/P)

Compiled Mar.1990  
Revised Mar.1994

ASE PHL/A 102/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Philippines	1.SITE OR AREA	Region II (Isabela, Quirino, Ifugao) 102,000 ha		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 Project of the O & M of Magat River Integrated Irrigation	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) NIA wanted to implement this project as a model for many other ineffective irrigation systems which suffer from inadequate management and lack of proper maintenance in the Philippines, and requested unsuccessfully for a Japanese grant to implement part of the proposals.  (FY 1991 Overseas Survey) The project will be revived in the near future.						
3.SECTOR	Agriculture/General	(US\$1,000)	1) 51,707	17,317	34,390							
4.REFERENCE NO.		US\$1=20.5 Pesos	2)									
5.TYPE OF STUDY	M/P	3.CONTENTS OF MAJOR PROJECT(S)										
6.COUNTERPART AGENCY	National Irrigation Administration	The Study proposed various improvements to realize more effective utilization of water resources, efficient and equal distribution of irrigation water, and better organizations for maintenance and operation (e.g. preparation of an O&M manual).  Costs ('000 pesos) - Improvement of water control : 143,330 - Improvement of machinery and facilities : 36,610 - Procurement of construction machinery : 134,550 - Improvement of canals : 349,820 - Rehabilitation major structures : 63,196 - Improvement of agricultural dev. facilities: 47,700 - Engineering services : 156,050 - Contingency : 123,750 Total : 1,060,000  * Project costs above are in 1986 prices.										
7.OBJECTIVES OF STUDY	Improvement in the central-method of water by repairing existing irrigation facilities	4.CONDITIONS AND DEVELOPMENT IMPACTS										
8.DATE OF S/W	Nov.1985	The proposed project will strengthen O & M activities of Magat Dam and irrigation facilities, which were constructed by NIA with funds from ADB and IBRD.  Development impacts: 1) The irrigated area will reach 97,400ha 2) The average paddy yield will rise to 4.1 tons/ha, with the total production reaching 760,000 tons. 3) The quality of rice will improve. 4) The paddy production cost will drop by 640 pesos/ha, which will raise the net profit. 5) Estimated FIRR 10%, and estimated EIRR 14%										
9.CONSULTANT(S)	Sanyu Consultants Inc. Naigai Engineering Co., Ltd. Nihon Suiko Consultant Co., Ltd.	5. TECHNICAL TRANSFER										
10.STUDY TEAM	No.of Members 18 Period Feb.1986-Mar.1987(14 months)  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">130.35</td> <td style="text-align: center;">54.07</td> <td style="text-align: center;">70.78</td> </tr> </table>	Total M/M	Japan	Field	130.35		54.07	70.78	2.MAJOR REASONS FOR PRESENT STATUS			
Total M/M	Japan	Field										
130.35	54.07	70.78										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		3.PRINCIPAL SOURCE OF INFORMATION										
12.EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">361,520 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">330,294</td> </tr> </table>	Total	361,520 (¥'000)	Contracted	330,294	1) OJT 2) Acceptance of Trainee (Maintenance & Operation Soft Ware)			①②③			
Total	361,520 (¥'000)											
Contracted	330,294											

和名 マガットかんがいシステム維持管理強化計画

[M/P, Basic Study, Other]

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1994

ASE PHL/S 319/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																																												
1. COUNTRY	Philippines	1. SITE OR AREA				1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																																																											
2. NAME OF STUDY		North Study Section 200km (Sta. Rita-Aritao) South Study Section 181km (Calamba-Calauag)																																																																
Road Improvement Project on the Pan-Philippine Highway (Philippines-Japan Friendship Highway)		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost																																																												
3. SECTOR				(US\$1,000)	1)	55,000																																																												
Transportation/Fish Processing				(US\$1=160Yen)	2)	23,000																																																												
4. REFERENCE NO.				3)																																																														
5. TYPE OF STUDY		F/S		3. CONTENTS OF MAJOR PROJECT(S)																																																														
6. COUNTERPART AGENCY		Department of Public Works and Highways (DPWH)		(1) Rehabilitation of Road Function (Short term 1987-92)																																																														
7. OBJECTIVES OF STUDY		Road Rehabilitation		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 15%;">North Study Section</th> <th style="width: 15%;">South Study Section</th> <th style="width: 10%;">Total</th> </tr> </thead> <tbody> <tr> <td>Road Function</td> <td style="text-align: center;">6</td> <td style="text-align: center;">-</td> <td style="text-align: center;">6</td> </tr> <tr> <td>Signalisation</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> </tr> <tr> <td>Improvement of Geometrics</td> <td style="text-align: center;">6</td> <td style="text-align: center;">7</td> <td style="text-align: center;">13</td> </tr> <tr> <td>Paving of Shoulders/Sidewalks</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Widening to a 4-lane</td> <td style="text-align: center;">3</td> <td style="text-align: center;">-</td> <td style="text-align: center;">3</td> </tr> <tr> <td>R.O.W Acquisition</td> <td style="text-align: center;">16</td> <td style="text-align: center;">10</td> <td style="text-align: center;">26</td> </tr> <tr> <td colspan="4">(2) Pavement Rehabilitation Works (Short term)</td> </tr> <tr> <td>2-lane PCC Reconstruction</td> <td style="text-align: center;">91.92</td> <td style="text-align: center;">110.68</td> <td style="text-align: center;">202.60</td> </tr> <tr> <td>1-lane PCC Reconstruction</td> <td style="text-align: center;">113.96</td> <td style="text-align: center;">21.12</td> <td style="text-align: center;">135.08</td> </tr> <tr> <td>2 lane AC Overlay</td> <td style="text-align: center;">69.00</td> <td style="text-align: center;">5.00</td> <td style="text-align: center;">74.00</td> </tr> <tr> <td>Treatment of weak Subgrade</td> <td style="text-align: center;">2.00</td> <td style="text-align: center;">-</td> <td style="text-align: center;">2.00</td> </tr> <tr> <td>Side Ditch</td> <td style="text-align: center;">109.73</td> <td style="text-align: center;">74.52</td> <td style="text-align: center;">184.14</td> </tr> <tr> <td>Subsurface Drainage</td> <td style="text-align: center;">3.25</td> <td style="text-align: center;">11.25</td> <td style="text-align: center;">14.25</td> </tr> <tr> <td></td> <td style="text-align: center;">114.98</td> <td style="text-align: center;">85.77</td> <td style="text-align: center;">200.75</td> </tr> </tbody> </table>				North Study Section	South Study Section	Total	Road Function	6	-	6	Signalisation	1	2	3	Improvement of Geometrics	6	7	13	Paving of Shoulders/Sidewalks	-	-	-	Widening to a 4-lane	3	-	3	R.O.W Acquisition	16	10	26	(2) Pavement Rehabilitation Works (Short term)				2-lane PCC Reconstruction	91.92	110.68	202.60	1-lane PCC Reconstruction	113.96	21.12	135.08	2 lane AC Overlay	69.00	5.00	74.00	Treatment of weak Subgrade	2.00	-	2.00	Side Ditch	109.73	74.52	184.14	Subsurface Drainage	3.25	11.25	14.25		114.98	85.77	200.75
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8. DATE OF S/W		Nov.1985		Imp. Period: Apr.1989-Dec.1992																																																														
9. CONSULTANT(S)		Nippon Engineering Consultants Co., Ltd. Katahira & Engineers International		4. FEASIBILITY AND ITS ASSUMPTIONS																																																														
				Feasibility: Yes	EIRR1) 57.20	FIRR1)																																																												
					EIRR2)	FIRR2)																																																												
					EIRR3)	FIRR3)																																																												
10. STUDY TEAM		No. of Members 7 Period Jun.1986-Sep.1987 (16 months)		Conditions and Development Impacts: Conditions: (1) Future traffic demand is estimated for the years of 2000 and 2010. (2) For improvement of traffic function, widening of road width, construction of By-pass, etc were suggested. (3) Rehabilitation of pavement for each section was also suggested.  Development Impacts: The improvement of road function in the cities are expected.																																																														
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Total M/M</th> <th style="width: 15%;">Japan</th> <th style="width: 15%;">Field</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">48.13</td> <td style="text-align: center;">2.10</td> <td style="text-align: center;">46.03</td> </tr> </tbody> </table>		Total M/M	Japan	Field	48.13	2.10	46.03	2. MAJOR REASONS FOR PRESENT STATUS																																																								
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48.13	2.10	46.03																																																																
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Topographic Survey and Geotechnical Investigation		- High priority has been given to this project as the road is one of important trunk roads in Philippines. - The project was evaluated to be the most suitable one as Social Rehabilitation Fund by OECF																																																														
12. EXPENDITURE		Total 168,225 (¥'000) Contracted 161,111		3. PRINCIPAL SOURCE OF INFORMATION																																																														
				①②③④																																																														

和名 日比友好道路・道路改善計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

ASE PHL/S 320/87

Compiled Mar.1990  
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT					
1.COUNTRY	Philippines	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY	Manila South Port Rehabilitation Project	Manila									
3.SECTOR	Transportation/Port	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost					
4.REFERENCE NO.		(US\$1,000)	1)	35,366	10,315	25,051					
5.TYPE OF STUDY	F/S	(US\$1=20.5P)	2)								
6.COUNTERPART AGENCY	Philippine Port Authority	3)									
7.OBJECTIVES OF STUDY	Review of Master Plan (year 2000) and establishing Short Term Development Plan for South Harbour.	3.CONTENTENTS OF MAJOR PROJECT(S)				(Description)  Feb.1988    Government of Philippines applied for an ADB loan 1988 - 1989   Detailed design done by a US consultant Dec.1989    ADB L/A (US\$43.5 million) for 2nd Manila Port Project (South and North Harbors) Sep.1991-1st half of 1994   Construction scheduled  Total Project Cost    442.1 million pesos Foreign (60%)    US\$1.3 million Local    (40%)    26.8 million  (FY1993 Overseas Survey) Dec.1987    ADB loan approved (US\$ 43.5 million) PPA internal cash generation (US\$ 43.21 million equiv.) Jul.1988 - Dec.1989   D/D conducted (STV Lyon Assoc. Inc.) Sep.1991    Construction started to be completed in June 1995  Total investment cost: US\$ 89.69 million pesos Foreign currency: US\$ 50.40 million (cost overrun) Local currency    : US\$ 36.29 million					
8.DATE OF S/W	Dec.1985	Imp. Period:    .1989-.1992									
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Nikken Sekkei Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1)    18.46    FIRR1)    7.69 EIRR2)                            FIRR2) EIRR3)                            FIRR3)						
10.STUDY TEAM	No.of Members    11 Period    Mar.1986-Jun.1987(16 months)	Conditions and Development Impacts: Demand projections are made for the years 1995 and 2005.  The implementation of the project will rehabilitate and expand the superannuated facilities of South Port and thereby improve the efficiency of the port operation and maintenance, reduce cargo handling costs and port charges and waiting time of the calling ships. The social internal rate of return is calculated 18.61%.				2.MAJOR REASONS FOR PRESENT STATUS					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">65.06</td> <td style="text-align: center;">30.22</td> <td style="text-align: center;">34.84</td> </tr> </table>		Total M/M	Japan	Field	65.06			30.22	34.84	5. TECHNICAL TRANSFER	
Total M/M	Japan	Field									
65.06	30.22	34.84									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Traffic Survey, Soil Survey, Topographic Survey, Structure Inspection	1) A seminar held in Manila; 2) A lecture on F/S methodology; 3) OJT through joint work				3.PRINCIPAL SOURCE OF INFORMATION  ①②					
12.EXPENDITURE	Total                    228,100 (¥'000) Contracted            214,956										

和名 マニラ南港改修計画

(F/S,D/D)

# PROJECT SUMMARY (M/P)

ASE PHL/A 103/88

Compiled Mar.1990  
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS				
1.COUNTRY	Philippines	1.SITE OR AREA	Western Samar Province in Samar Island (excluding small islands)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
2.NAME OF STUDY	Integrated Agricultural/Rural Development Project in Western Samar	2.PROJECT COST					Total Cost    Local Cost    Foreign Cost (US\$1,000)                      1)                      422,500 US\$1=20 Pesos                      2)	
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)	Agricultural Development Promotion Project (ADPP) was proposed for 4 priority areas, i.e., San Jorge/Gandara, Jomonini, Calbiqa and Basey. The components are as follows: (1) Agricultural development (2) Rural infrastructure development (3) Post-harvest and marketing facility development (4) Farmers Organization (5) ADPP Office    Estimated investment costs are as follows: First 5 years of the first decade    114,600 (US\$1,000) Second 5 years of the first decade    91,450 Second decade                      216,450 (The cost above is the total for 20 years)		(Description) Regarding the Agricultural Development Promotion Project (ADPP) formulated for the top priority area (San Jorge / Gandara), the FY1989 Japanese grant was approved.  Jan.- Mar. 1990    Basic design study undertaken Jul.1990    E/N signed (Phase I: 712 million yen) Aug.1991    E/N signed (Phase II: 12 million yen) Mar.1993    The completed project formally transferred to the Samar Provincial Government  (FY1993 Overseas Survey) (1) Since the impleted project design was turned over to the Provincial Government of Western Samar, there has been no further development of the project. Under the new Local Government Code, the implementation of the projects (including financing) became the responsibility of the LGU. (2) It is being used by the local government unit of Western Samar as an economic development blueprint, particularly with respect to planning and agricultural/rural development programs / projects / activities.			
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS					In Western Samar Province, the plans are for: 1) irrigation 2) drainage 3) agricultural development 4) farm road 5) rural electrification 6) rural water supply 7) social infrastructure 8) farm organization  The objectives are: 1) increase in farmers' income, and 2) promotion of employment opportunity.  Short-term, Medium-term, and Long-term strategies were proposed.	
5.TYPE OF STUDY	M/P	10.STUDY TEAM	2.MAJOR REASONS FOR PRESENT STATUS Samar Island is poorest region in the Philippines. The World Bank studied the whole island. Australia and the World Bank studied the Northern Samar and Eastern Samar but not Western Samar. Therefore, integrated rural development in Western Samar is very important.					
6.COUNTERPART AGENCY	Provincial Government of Samar	No.of Members    13 Period Mar.1987-Dec.1988 (15 months)  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">95.86</td> <td style="text-align: center;">40.17</td> <td style="text-align: center;">55.69</td> </tr> </table>			Total M/M	Japan	Field	95.86
Total M/M	Japan	Field						
95.86	40.17	55.69						
7.OBJECTIVES OF STUDY	M/P for the integrated agricultural development in order to vitalize economy in the Province of Samar	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	3.PRINCIPAL SOURCE OF INFORMATION ①②					
8.DATE OF S/W	Dec.1986	12.EXPENDITURE						
9.CONSULTANT(S)	Sanyu Consultants Inc. Pacific Consultants International Taiyo Consultants Co., Ltd.	Total                      320,574 (¥'000) Contracted                      268,403						

和名 西サマール農業総合開発計画

(M/P, Basic Study, Other)

# PROJECT SUMMARY (F/S)

ASE PHL/S 321/88

Compiled Mar.1990  
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Philippines	1.SITE OR AREA				1.PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled		
2.NAME OF STUDY	Rural Road Network Development Project	73 provinces (F/S on four selected provinces: Cavite, Masbate, Bohol and Aqusan del Norte)						
3.SECTOR		Transportation/Fish Processing						
4.REFERENCE NO.		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost		
5.TYPE OF STUDY	F/S	(US\$1,000)		1) 45,000	17,000	28,000		
6.COUNTERPART AGENCY	Dept. of Public Works and Highways (DPWH)	3) 2)						
7.OBJECTIVES OF STUDY	Development of regional roads (secondary trunk road and lower road classes)	3.CONTENTS OF MAJOR PROJECT(S)				(Description) The Government of the Philippines requested JICA to undertake a similar study on the other provinces. The requested study on eleven provinces (Rural Road Network Development Project II) was implemented during Oct. 1989 - Oct.1990. Based on the findings of the two RRNDP studies and another (SAPROF), GOP requested OECF finance for rural roads improvement in 20 provinces (6 provinces from the two JICA studies and 13 provinces from the SAPROF). Yen credit was subsequently approved for four provinces (Aqusan del Norte was replaced by Tarlac). Jul.1991 OECF loan (PH-P118) signed (Rural Road Network Development 5,266 million yen) Project: Rural roads in Cavite, Masbate, Bohol and Tarlac Provinces. Jul.1992 - May 1993 Detailed design to be completed (Katahira & Engineers) Sep.1993 Construction is scheduled to begin (to be completed in 1996). Total investment 1,609.6 million pesos (OECF 848.2 million, GOP 161.4 million) Tarlac Province was affected by the eruption of Mt. Pinatubo, and three of the four subprojects in the province were damaged. However, the proposed improvement can be implemented. (FY1993 Overseas Survey) After substantial improvement achieved of the arterial road network, the thrust of the GOP development objective has somewhat shifted to regional roads, in accordance with the updated National Development Plan which aims at poverty alleviation, generation of ore productive employment, promotion of social justice and sustainable growth in rural areas. The proposed projects are under implementation with OECF finance as follows. Aug.1992 - Sep.1993 D/D undertaken Apr.1994 Construction scheduled to begin Oct.1996 Construction to be completed Total investment cost: 841 million pesos (foreign currency 758 million pesos equivalent; local currency 83 million pesos)		
8.DATE OF S/W	Jul.1987	Imp. Period: 1991-1995						
9.CONSULTANT(S)	Katahira & Engineers International Nippon Engineering Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) EIRR2) EIRR3)			FIRR1) FIRR2) FIRR3)
10.STUDY TEAM	No.of Members 10 Period Nov.1987-Feb.1989 (16 months)	Conditions and Development Impacts:						
Total M/M		Conditions:						
Japan		The project life is 25 years (from 1992 to 2016). The benefits taken into account were: Saving of transportation cost, benefit from the agricultural development, road maintenance cost savings.						
Field		Impacts:						
55.90		The regional road development (roads with EIRR of over 15%) will extend the network of all-weather roads in the country and stimulate socio-economic growth and employment creation.						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER						
Road inventory Traffic survey		OUT for the counterparts						
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION						
Total 191,294 (¥'000)		①②③④						
Contracted 178,598								

和名 地方道路網整備計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

ASE PHL/A 313/88

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Philippines	1.SITE OR AREA	Project Area - 1,420 hectares in La Trinidad, Province of Benguet			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Highland Intergrated Rural Development Project in La Trinidad, Province of Benguet	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost		
3.SECTOR	Agriculture/General		(US\$1,000)	1)	12,460	(Description) The proposed project was implemented with the Japanese grant aid.  Dec.1988 - Apr.1989 Basic design undertaken Jun.1989 E/N signed (1,643 million yen) for Phase I Jun. - Oct.1989 Phase I detailed design undertaken Nov.1989 - Nov.1990 Phase I construction undertaken Jul.1990 E/N signed (1,142 million yen) for Phase II Jul. - Oct.1990 Phase II detailed design undertaken Nov.1990 - Nov.1991 Phase II construction undertaken  The facilities have been formally handed over to the provincial government of Benguet. The impact of the project is substantial, enabling the paddy planting during the dry season in 1992.  (FY1991 Overseas Survey) No additional information.	
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)	2)	5,220	7,240		
5.TYPE OF STUDY	F/S		3)			2.MAJOR REASONS FOR PRESENT STATUS  1.Implementation of this development project is considered vital and urgent in view of high potentiality. 2.This project has an important and regional role to supply the highland vegetables to Metro-Manila and the central regions. 3.High priority was given to the implementation of this project for the reason that this is the first project carried out by the provincial government with technical cooperation by the Government of Japan.	
6.COUNTERPART AGENCY	Provincial Government of Benguet (PGB)						
7.OBJECTIVES OF STUDY	Formulating the Highland Integrated Rural Development Plan in La Trinidad for promoting highland agriculture and improving the living standards for the inhabitants in rural areas.					3.PRINCIPAL SOURCE OF INFORMATION  ①②	
8.DATE OF S/W	Mar.1987	8.DATE OF S/W	Imp. Period:	Dec.1988-Mar.1992			
9.CONSULTANT(S)	Nippon Giken Inc. Nippon Koei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	Yes	EIRR1) 10.20   FIRR1) EIRR2)   FIRR2) EIRR3)   FIRR3)	5.TECHNICAL TRANSFER  1.Acceptance of Trainee (10 persons)	
10.STUDY TEAM	No.of Members 10 Period Jul.1987-Nov.1988 (14 months)	Conditions and Development Impacts: Conditions: Proposed component, which is required for the promotion of agricultural productivity and social environment in rural area, is selected to overcome major existing restrictions on the development in the study area  Development Impact: 1) Increase of supply in quantity of vegetables and cut-flowers in Metro-Manila and the Central Regions 2) Increase of employment and training effect 3) Increase of farm household income and property value 4) Stable supply of potable and household water 5) Activation of rural area					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	- Rural Road Surveying and Irrigation Canal Surveying. - Drilling of Test Wells					12.EXPENDITURE  Total 196,644 (¥'000) Contracted 170,000	

和名 トリニダッド高地農村総合開発計画

{F/S,D/D}

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1994

ASE PHL/A 314/88

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 checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		Existing National Pump Irrigation Systems (Excluding groundwater irrigation systems)					
Improvement of Operation and Maintenance in Pumping Irrigation Systems		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)	1)	16,715	5,516	11,199	
		US\$1=21 Peso		2)			
				3)			
3.SECTOR		3.CONTENTS OF MAJOR PROJECT(S)				(Description)  The project was not favorably considered during the annual bilateral consultation between Japan and the Philippines owing to the peace and order problems in the project area.	
Agriculture/		The project consists of the rehabilitation and improvement of the following pump irrigation systems:					
4.REFERENCE NO.		1) Bonqa #1 (1,204.2) (US\$000)					
5.TYPE OF STUDY		2) Bonqa #2 (1,470.2)					
6.COUNTERPART AGENCY		3) Bonqa #3 ( 684.5)					
NIA (National Irrigation Administration)		4) Alcala - Amulung (1,433.3)					
		5) Solana (3,648.9)					
		6) Libman - Cabusao (3,028.4)					
		7) ini-hydropower stations (5,246.0)					
7.OBJECTIVES OF STUDY							
To formulate of operation and maintenance for government managed irrigation pumping system							
8.DATE OF S/W		Imp. Period: .1990-.1992					
9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility:	EIRR1)	FIRR1)	
Nippon Koei Co., Ltd. Construction Project Consultants				Yes	19.40	22.40	
					EIRR2)	FIRR2)	
					15.60	FIRR3)	
10.STUDY TEAM		Conditions and Development Impacts:				2.MAJOR REASONS FOR PRESENT STATUS  Peace and order problems in the project areas.	
No.of Members 9 Period Aug.1987-Dec.1988(7 months)		Conditions: Benefits of irrigation are the difference in terms of primary profits from crop production between "with project" and "without project" conditions. Benefits of mini-hydropower stations are calculated on the basis of the operational costs of diesel power generation.					
Total M/M		Japan		Field			
69.17		24.24		44.93			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Development Impacts:					
		1. Increase of crop production 2. Supply of electricity at lower costs 3. Increase of employment 4. Improvement of farm roads and reduction of transportation costs					
		* EIRRs 1) to 3) above correspond to the numbers of the projects shown above. EIRRs for the projects 4) to 7) are 33.7%, 27.4%, 39.5%, and 14.0% respectively.					
		5. TECHNICAL TRANSFER					
12.EXPENDITURE		Technology transfer to counterparts in the course of the study.				3.PRINCIPAL SOURCE OF INFORMATION	
Total		199,448 (¥000)				①②③	
Contracted		197,131					

和名 ポンプ灌漑施設維持管理改善計画

(F/S,D/D)

# PROJECT SUMMARY (Basic Study)

Compiled Mar.1991  
Revised Mar.1994

ASE PHL/S 502/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS					
1.COUNTRY	Philippines	1.SITE OR AREA	Approx. 1,500 sq.km of Metro Manila Region		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued				
2.NAME OF STUDY Establishment of Graphic Information Base Project of National Capital Region		2.PROJECT COST (US\$1,000)			(Description) The four kinds of maps are now sold to the public in the Philippines. The maps are widely used for the formulation of various development plans and studies in Metro Manila.  The maps are also utilized by JICA studies and popular among users.  (FY 1991 Overseas Survey) No additional information.  (FY 1993 Overseas Survey) Establishment of Graphic Information Base Project of National Capital Region Completed and updating information by the local fund.					
3.SECTOR Social Infrastructures/Survey & Mapping		Total Cost    Local Cost    Foreign Cost 1) 2)								
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)			(FY 1993 Overseas Survey) Establishment of Graphic Information Base Project of National Capital Region Completed and updating information by the local fund.					
5.TYPE OF STUDY Basic Study		Preparation of : 1.Contoured(Topoqraphic) Mapping (scale 1:10,000) 1590sq.km 2.Planimetric Mapping (scale 1:10,000) 1500sq.km 3.Land Use Mapping (scale 1:10,000) 823sq.km 4.Land Condition Mapping (scale 1:10,000) 476sq.km								
6.COUNTERPART AGENCY National Mapping and Resource Information Authority (Manila)		4.CONDITIONS AND DEVELOPMENT IMPACTS  By the preparation of the urban base maps, the formulation of urban re-development plans, land use plans, flood control measures, etc. are greatly facilitated to contribute to the regional economic development.			2.MAJOR REASONS FOR PRESENT STATUS  The urban base maps of scale 1:10,000 are prepared for the first time in the Philippines.					
7.OBJECTIVES OF STUDY Preparation of base maps for urban development planning										
8.DATE OF S/W .1985		5.technical transfer  Technical transfer has been made to the counterparts through the field work in the Philippines and office work in Japan.			3.PRINCIPAL SOURCE OF INFORMATION  ①②③					
9.CONSULTANT(S) International Engineering Consultants Association										
10.STUDY TEAM No.of Members    62 Period Jun.1985-Mar.1989(46 months)										
<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">200.67</td> <td style="text-align: center;">81.48</td> <td style="text-align: center;">119.19</td> </tr> </table>							Total M/M	Japan	Field	200.67
Total M/M	Japan	Field								
200.67	81.48	119.19								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY										
12.EXPENDITURE										
<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">761,568 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">751,731</td> </tr> </table>		Total	761,568 (¥'000)	Contracted	751,731					
Total	761,568 (¥'000)									
Contracted	751,731									

和名 マニラ都市基本図作成

{M/P,Basic Study,Other}



## PROJECT SUMMARY (Other)

ASE PHL/A 602/88

Compiled Mar.1990  
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	An Area 28,000 sq.km in the Cagayan River Basin in Northern Luzon		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued								
2.NAME OF STUDY Preparation of Forest Information in Wide Area and Forest Management Planning		2.PROJECT COST (US\$1,000)			(Description) (FY1992 Overseas Survey) The results of the study were used as the most comprehensive example of the land evaluation procedure which combines the techniques of Remote Sensing, Geographic Information System (GIS) and ground validation. The project is the first ever large-scale example of a completed GIS application in Southeast Asia. The project used the most sophisticated GIS software available (ARC/INFO) at that time and even up to the present. Results of the study were also widely used as a model for the different thematic maps for the Forestry Master Plan Project, for the ADB-financed Reforestation Project, and for the Survey Mapping and Planning (SMP) of all proposed reforestation projects.									
3.SECTOR Forestry/General		Total Cost    Local Cost    Foreign Cost 1) 2)												
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)												
5.TYPE OF STUDY Other		1. The forest management plan for wide area was formulated on the above mentioned area. 2. A 50,000 ha of Model area was established in the above mentioned area and the forest management plan for Model area was formulated.												
6.COUNTERPART AGENCY Bureau of Forest Development Ministry of Natural Resources		4.CONDITIONS AND DEVELOPMENT IMPACTS												
7.OBJECTIVES OF STUDY The objective of this study is preparation of Forest Management Plan to conserve the natural environment and stable the socio-economic condition in the study area.		It is necessary to examine the social demands, economic effects and financing when the forest management plans are implemented. It will bring good results for reduction of the forest devastation and natural environment conservation by setting up the basic forest management plan for the whole country using the above mentioned plans. The basic forest management is to manage the unplanned forest exploitation and forest utilization.												
8.DATE OF S/W May.1985		10.STUDY TEAM												
9.CONSULTANT(S) Japan Forest Technical Association Pasco International Inc.		No.of Members    14 Period Jul.1985-Jun.1988 (36 months)												
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Aerial Photography		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Total M/M</td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> </tr> <tr> <td></td> <td style="text-align: center;">155.00</td> <td style="text-align: center;">110.00</td> <td style="text-align: center;">45.00</td> </tr> </table>						Total M/M	Japan	Field		155.00	110.00	45.00
	Total M/M	Japan	Field											
	155.00	110.00	45.00											
12.EXPENDITURE		5.TECHNICAL TRANSFER												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Total</td> <td style="width: 15%;">401,069 (¥000)</td> </tr> <tr> <td></td> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">375,054</td> </tr> </table>			Total	401,069 (¥000)		Contracted	375,054	To accept trainees/To guide the way of collecting and arranging the forest information in wide area and to conduct these joint works/To conduct the joint works for formulation of the forest management plans/To conduct the joint field works.						
	Total	401,069 (¥000)												
	Contracted	375,054												
		2.MAJOR REASONS FOR PRESENT STATUS												
		3.PRINCIPAL SOURCE OF INFORMATION												
		②												

和名 広域森林情報分析管理計画

(M/P,Basic Study,Other)

# PROJECT SUMMARY (M/P)

ASE PHL/A 105/89

Compiled Mar.1991  
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS											
1.COUNTRY	Philippines	1.SITE OR AREA	The whole of Philippines		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued									
2.NAME OF STUDY	Small Water Impounding Management Project	2.PROJECT COST					Total Cost	Local Cost	Foreign Cost						
3.SECTOR	Agriculture/		(US\$1,000)	1) 265,000	(Description) Of the proposed 230 projects, 39 were selected and approved for an OECF loan. Jan.1988 OECF L/A signed (Small Reservoirs Development 3.193 million yen, of which 958 million yen for local cost component)  (FY1993 Overseas Survey) (1) Out of the 39 selected projects, 11 were not implemented due to various reasons: 1) security problem (project located in Muslim area) 2) overlapping of irrigable service areas with existing NIA projects 3) unresolved right-of-way problems 4) economic non-viability due to high cost of foundation and access road required. (2) Presently, out of the 25 projects, 13 are under construction, 2 are awaiting concurrence of contract documents by OECF, 2 are for tendering, 10 are under tender evaluation by the DPWH-PRAC and 1 for approval of bid drawings by the BOD, DPWH. Selection criteria developed in Master Plan Study were used and will be used by the DPWH in the formulation of the program for SWIM projects.										
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)	2)												
5.TYPE OF STUDY	M/P	The implementation program of the Small Water Impounding Management (SWIM) Projects was prepared for the next ten years period from 1991 to 2000, according to the following procedure: (1) Total candidate projects has been 501 of which 230 projects were qualified for implementation in light with the selection criteria: i.e. those projects should be of multi-purpose, have imoundment, with dam height of not more than 30 meters, with reservoir capacity of not more than 50 MCM, etc.) and with the availability of existing studies. (2) The 230 qualified projects were prioritized in accordance with the criteria in which the technical, economic and social/environmental aspects were included, and with other factors. Considering the other factors such as economic rate of return, even distribution over the country, etc., an implementation schedule for SWIM projects was prepared. The 118 projects will be implemented within the first five years. (3) The total costs for the SWIM projects are estimated at 6.1 billion pesos, consisting of the implementation of the 230 projects (4.0 billion pesos), identification of new projects (0.1 billion pesos) and price contingency (2.0 billion pesos). Costs for the first five years are estimated at 2.4 billion pesos.													
6.COUNTERPART AGENCY	Department of Public Works and Highways (DPWH)														
7.OBJECTIVES OF STUDY	- Formulation of the M/P for smooth implementation of the project - Preparation of criteria and guidelines for implementation of SWIM project														
8.DATE OF S/W	.0.														
9.CONSULTANT(S)	Nippon Koei Co., Ltd. Nippon Giken Inc.			4.CONDITIONS AND DEVELOPMENT IMPACTS											
10.STUDY TEAM	No.of Members 11 Period Aug.1988-Feb.1990(20 months)  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">82.41</td> <td style="text-align: center;">25.50</td> <td style="text-align: center;">56.91</td> </tr> </table>			Total M/M			Japan	Field	82.41	25.50	56.91	The project benefits will be born from irrigation, hydro-power generation, inland fishery and/or water supply. Total annual benefit amount to be born from the 230 projects is estimated at 0.6 billion pesos, of which 0.5 billion is expected to come from irrigation. Overall economic internal rate of return (EIRR) of the 230 projects is calculated at 17.5%, when the irrigation benefit only is considered. The EIRR for first five year is 20.0% while that for second five years is 12.8%. Other socio-economic impacts to be expected are as follows: (1) Flood protection (peak cut of 4,900 m <sup>3</sup> /sec, which is 30% of design flood discharge) (2) Increase in irrigation area (new irrigation area of 28,000 ha which is expected to produce 200,000 tons of paddy) (3) Income increase of beneficiaries (annual incremental income of 14,000 pesos per household) (4) Generation of employment opportunity (3.5 million man-days) (5) Watershed management effect (45,000 ha will be conserved by constructing check-dams and reforestation) (FY 1993 Domestic Survey)			
Total M/M	Japan			Field											
82.41	25.50			56.91											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	none			2.MAJOR REASONS FOR PRESENT STATUS											
12.EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">255,674 (P'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">182,150</td> </tr> </table>	Total	255,674 (P'000)	Contracted	182,150	5. TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION							
Total	255,674 (P'000)														
Contracted	182,150														
		Technology transfer to counterparts in the course of the study. Full-time (15 persons), part-time (8 persons).		①②											

和名 農業用小規模ため池整備計画

(M/P, Basic Study, Other)

# PROJECT SUMMARY (M/P)

Compiled Mar.1991  
Revised Mar.1994

ASE PHL/A 104/89

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 checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Fish Transport System	1) Nationwide				(Description)							
3.SECTOR	Fisheries/General	2.PROJECT COST	(US\$1,000)	Total Cost	Local Cost	Foreign Cost	<p>This project was combined with the Nationwide Ice Plants and Cold Storage (NIPS) Network Project, which was proposed by the JICA M/P study during 1983 - 1985. The OECF-financed E/S of the combined project was completed in 1989 by the Pacific Consultants International.</p> <p>The E/S selected 4 zones (Camarines Norte, Iloilo, South Cotabato and Zamboanga del Sul) and one prototype (Camarines Sul) out of 11 zones and 52 prototypes in the master plan study and conducted the follow-up study and detailed design and prepared tender documents.</p> <p>Based on the E/S, the Government of the Philippines included this combined project to the application list for the 17th Yen Credit Package. The project was not approved.</p> <p>The PFDA formulated a pilot project, the Integrated Fish Trading Complex, on the basis of the project and submitted its proposal for grant aid to the Japanese Government. The request was not successful.</p> <p>(FY1993 Overseas Survey) F/S was updated by PFDA in 1993 and Submitted to NEDA-ICC for consideration and possible funding under the 19th Yen Credit Package. Based on the updated F/S, the ICC found the proposal lacking of the basic information to enable the ICC to assess the economic and financial viability of each component of the project. PFDA temporarily withdrew the proposal but plans to re-submit the same in the form as required by the ICC.</p>						
4.REFERENCE NO.		1)	67,817,000	20,673,000	47,145,000								
5.TYPE OF STUDY	M/P	2)											
6.COUNTERPART AGENCY	Department of Agriculture PFDA	3.CONTENTS OF MAJOR PROJECT(S)											
7.OBJECTIVES OF STUDY	To formulate M/P on Fish Transport System in the Philippines to improve the seafood treatment	The Project components are: 1) Off-shore facilities of fish transport vessel, training vessel, fish carrier vessels and payao. 2) On-land facilities/building of office building, insulated fish box manufacturing plant, several processing plants, ice making plant, work shop, electrical sub-station, auction hall. 3) On-land facilities of antenna tower, tank water treatment facilities. 4) On-land equipment of mobiles, workshop equipment, information/communication equipment, cooking facilities and demonstration facilities etc.. 5) Infrastructure of rehabilitation for existing NFP, access road, extension for city water taking, wiring electrical power primary line and reclamation.											
8.DATE OF S/W	Feb.1988	4.CONDITIONS AND DEVELOPMENT IMPACTS											
9.CONSULTANT(S)	System Science Consultants	Conditions: Social life of the project was assumed to be 30 years. Physical life was assumed as 5 years to 25 years by the components. Prices on 1988. Completion of construction in 5 years after commencement of construction.  Development Impacts: Direct Benefits- the value in saving cost/time through the FTS project. Indirect Benefits- 1. Increase in international competitiveness and with it, the acquisition of foreign exchange 2. Greater employment opportunities 3. Promotion of regional development. 4. Increase in the production of fish products 5. Redistribution of income among fishermen, fish pond operators, traders, and transporters 6. Setting of appropriate fish prices for consumers as well as for fish producers											
10.STUDY TEAM	No.of Members 11 Period Mar.1988-Aug.1989(17 months)					2.MAJOR REASONS FOR PRESENT STATUS							
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td style="text-align: center;">49.05</td> <td style="text-align: center;">19.19</td> <td style="text-align: center;">29.86</td> </tr> </table>	Total M/M	Japan	Field	49.05	19.19		29.86					
Total M/M	Japan	Field											
49.05	19.19	29.86											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Nil	5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION							
12.EXPENDITURE		1) Acceptance of trainees 2) Joint work for creation of report 3) Fish Quality Testing System				①②③④							
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Total</td> <td style="width: 33%;">149,277 (¥000)</td> <td style="width: 33%;"></td> </tr> <tr> <td>Contracted</td> <td>140,635</td> <td></td> </tr> </table>	Total	149,277 (¥000)		Contracted	140,635							
Total	149,277 (¥000)												
Contracted	140,635												

和名 水産物輸送システム総合計画

(M/P, Basic Study, Other)