

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

ASE PHL/S 202B/82

Compiled Mar.1986  
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	Laoag district (Ilocos Norte Province), Legaspi City and Daraqa Town (Albay Province), Tagbilaran City (Bohol Province)																		
2.NAME OF STUDY	Local Water Supply Projects	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>16,620</td> <td>6,220</td> <td>10,400</td> </tr> <tr> <td>2) (US\$1=7.80P)</td> <td>8,640</td> <td>3,720</td> <td>4,920</td> </tr> <tr> <td>3)</td> <td>6,510</td> <td>2,670</td> <td>3,840</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	16,620	6,220	10,400	2) (US\$1=7.80P)	8,640	3,720	4,920	3)	6,510	2,670	3,840
	Total Cost	Local Cost	Foreign Cost																		
1) (US\$1,000)	16,620	6,220	10,400																		
2) (US\$1=7.80P)	8,640	3,720	4,920																		
3)	6,510	2,670	3,840																		
3.SECTOR	Public Utilities/Water Supply	3.CONTENTS OF MAJOR PROJECT(S)	<p>(1) Laoag area: water intake conduits, deep wells, transmission and distribution pipes, etc. (4,130 cu.m/day)</p> <p>(2) Legaspi area: spring water, transmission and distribution pipes, etc. (6,480 cu.m/day)</p> <p>(3) Daraqa town: spring water, transmission and distribution pipes, etc. (4,320 cu.m/day)</p> <p>(4) Tagbilaran city: deep wells, distribution reservoirs, distribution pipes, etc. (1,700 cu.m/day)</p> <p>(5) Total water quantity: 16,630 cu.m/day (Planned development quantity)</p> <p>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.</p>																		
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<p>Feasibility: Yes</p> <p>EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)</p> <p>Conditions and Development Impacts: Conditions: Master plan on the water supply system for the target year of 2010 has been established, which was divided into three phases. F/S was carried out for two cases: the initial project of Phase 1, the combined project of Phase 1 and Phase 2. Development 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.</p> <table border="1"> <thead> <tr> <th></th> <th>Phase 1</th> <th>Phase 1+Phase 2</th> </tr> </thead> <tbody> <tr> <td>Laoag area</td> <td>11%-14%</td> <td>9%-11%</td> </tr> <tr> <td>Legaspi area</td> <td>24%-37%</td> <td>14%-18%</td> </tr> <tr> <td>Daraqa town</td> <td>40%-49%</td> <td>17%-24%</td> </tr> <tr> <td>Tagbilaran city</td> <td>14%-18%</td> <td>16%-19%</td> </tr> </tbody> </table>				Phase 1	Phase 1+Phase 2	Laoag area	11%-14%	9%-11%	Legaspi area	24%-37%	14%-18%	Daraqa town	40%-49%	17%-24%	Tagbilaran city	14%-18%	16%-19%	
	Phase 1	Phase 1+Phase 2																			
Laoag area	11%-14%	9%-11%																			
Legaspi area	24%-37%	14%-18%																			
Daraqa town	40%-49%	17%-24%																			
Tagbilaran city	14%-18%	16%-19%																			
5.TYPE OF STUDY	(M/P)+F/S	5.technical transfer	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.																		
6.COUNTERPART AGENCY	Local Water Utilities Administration	5.technical transfer																			
7.OBJECTIVES OF STUDY	F/S of the emergency project based on the master plan	5.technical transfer																			
8.DATE OF S/W	Mar.1981	5.technical transfer																			
9.CONSULTANT(S)	Nihon Suido Consultants Co., Ltd.	5.technical transfer																			
10.STUDY TEAM	<p>No.of Members 9</p> <p>Period Jun.1981-Jun.1982(12 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>79.95</td> <td>34.72</td> <td>45.23</td> </tr> </tbody> </table>	Total M/M	Japan	Field	79.95	34.72	45.23	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>The scope of the project was reviewed and modified by the present administration after Marcos Regime fell.</p>													
Total M/M	Japan	Field																			
79.95	34.72	45.23																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		3.PRINCIPAL SOURCE OF INFORMATION	④																		
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>182,931 (¥000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>180,464</td> </tr> </tbody> </table>		182,931 (¥000)	Total		Contracted	180,464														
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Total																					
Contracted	180,464																				

和名 地方都市上水道計画

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

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

ASE PHL/S 201A/82

Compiled Mar.1986  
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	Port Irene at Casambalangan Bay		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued									
2.NAME OF STUDY	Development Project of the Port of Irene	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>1)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1=7.95P)</td> <td>2)</td> <td>12,941</td> <td>4,167</td> <td>8,774</td> </tr> </tbody> </table>			(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost	(US\$1=7.95P)	2)	12,941	4,167
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost										
(US\$1=7.95P)	2)	12,941	4,167	8,774										
3.SECTOR	Transportation/Port	3.CONTENTES OF MAJOR PROJECT(S)	<p>(Description)</p> <p>A feasibility study was subsequently undertaken on the short-term plan.</p>											
4.REFERENCE NO.		<p>Main projects (Target year 2000):</p> <ul style="list-style-type: none"> <li>- 2 berths for foreign trade (-10m, 15,000dwt) (New construction)</li> <li>- 3 berths for domestic trade (-7.5m, -5.5m) (New construction)</li> <li>- 1 Container berth for domestic trade (-7.5m) (New construction)</li> <li>- Construction of sheds, warehouses, fishing ports</li> </ul> <p>* Above project costs are for short-term plan.</p>												
5.TYPE OF STUDY	M/P+ (F/S)													
6.COUNTERPART AGENCY	The Philippine Ports Authority (PPA)													
7.OBJECTIVES OF STUDY	Preparation of Master Plan (Target year 2000) and Short-term Development Plan (Target year 1987)	4.CONDITIONS AND DEVELOPMENT IMPACTS	2.MAJOR REASONS FOR PRESENT STATUS											
8.DATE OF S/W	Feb.1981	<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.</p> <p>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.</p>												
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja		5.technical transfer	3.PRINCIPAL SOURCE OF INFORMATION										
10.STUDY TEAM	<p>No.of Members 9</p> <p>Period May.1981-Mar.1982 (11 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>46.98</td> <td>35.10</td> <td>11.88</td> </tr> </tbody> </table>	Total M/M	Japan				Field	46.98	35.10	11.88	<p>1) On the job training to counterpart ; 2) Counterpart training</p> <p>3) Preparation of report by cooperation with counterpart</p> <p>4) Use the local consultant for oceanographic survey and boring</p>			
Total M/M	Japan	Field												
46.98	35.10	11.88												
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological and oceanographic survey													
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>135,996 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>101,988</td> <td></td> </tr> </tbody> </table>		Total	135,996 (¥'000)	Contracted	101,988		①②						
	Total	135,996 (¥'000)												
Contracted	101,988													

和名 アイリーン港整備計画

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

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

ASE PHL/S 201B/82

Compiled Mar.1986  
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	Port Irene at Casambalagan bay																	
2.NAME OF STUDY	Development Project of the Port of Irene	2.PROJECT COST	<table border="1"> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> <tr> <td>(US\$1,000)</td> <td>12,941</td> <td>4,167</td> <td>8,774</td> </tr> <tr> <td>(US\$1=7.95P)</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	12,941	4,167	8,774	(US\$1=7.95P)						
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	12,941	4,167	8,774																	
(US\$1=7.95P)																				
3.SECTOR	Transportation/Port	3.CONTENTES OF MAJOR PROJECT(S)	<p>Short-term projects:</p> <p>Wharf for foreign trade (-10m) 1berth (200m)</p> <p>Mooring basin (-10m) 750 thousand cu.m</p> <p>Transit shed (40mx90m)</p> <p>Road (width 10m) 1.6km</p>																	
4.REFERENCE NO.																				
5.TYPE OF STUDY	(M/P)+F/S																			
6.COUNTERPART AGENCY	The Philippine Ports Authority (PPA)																			
7.OBJECTIVES OF STUDY	Preparation of Master Plan(Target year 2000) and Short-term Development Plan (Target year 1987)																			
8.DATE OF S/W	Feb.1981	Imp. Period:	Oct.1983-Dec.1986																	
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <tr> <td>Feasibility:</td> <td>EIRR1</td> <td>25.20</td> <td>FIRR1</td> <td>5.20</td> </tr> <tr> <td>Yes</td> <td>EIRR2</td> <td></td> <td>FIRR2</td> <td></td> </tr> <tr> <td></td> <td>EIRR3</td> <td></td> <td>FIRR3</td> <td></td> </tr> </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																	
10.STUDY TEAM	<p>No.of Members 9</p> <p>Period May.1981-Mar.1982(11 months)</p> <table border="1"> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> <tr> <td>46.98</td> <td>35.10</td> <td>11.88</td> </tr> </table>	Total M/M	Japan	Field	46.98	35.10	11.88	<p>Conditions and Development Impacts:</p> <p>Conditions:</p> <p>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.</p> <p>Impacts:</p> <p>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.</p>	<p>1.PRESENT STATUS</p> <p><input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting</p> <p><input type="radio"/> Completed <input type="checkbox"/> Delayed or Suspended</p> <p><input type="radio"/> Implementing <input checked="" type="checkbox"/> Discontinued or Cancelled</p> <p><input type="radio"/> Processing</p> <p>(Description)</p> <p>Sep.1983 OECF loan agreement signed (E/S, 240 million yen)</p> <p>Aug.1986 D/D completed</p> <p>(FY 1991 Overseas Survey)</p> <p>The project implementation has been suspended since the political change in 1986 and is now considered unlikely.</p>											
Total M/M	Japan	Field																		
46.98	35.10	11.88																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological and oceanographic survey	5.technical transfer	OJT and JICA training for counterparts																	
12.EXPENDITURE	<table border="1"> <tr> <td>Total</td> <td>135,996 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>101,988</td> </tr> </table>	Total	135,996 (¥'000)	Contracted	101,988	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>(1) Due to the delay of road construction and the shortage of cargo handling volume.</p> <p>(2) The change of the administration in 1986.</p> <p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②④</p>														
Total	135,996 (¥'000)																			
Contracted	101,988																			

和名 アイリーン港整備計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/S 311/82

Compiled Mar.1986  
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	Dalton Pass, Nueva Vizcaya																		
2.NAME OF STUDY	Dalton Pass Tunnel Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>1)</td> <td></td> <td></td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)				2)				3)		
	Total Cost	Local Cost	Foreign Cost																		
(US\$1,000)	1)																				
	2)																				
	3)																				
3.SECTOR	Transportation/Road	3.CONTENT(S) OF MAJOR PROJECT(S)	<p>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.</p>																		
4.REFERENCE NO.		<p>(Description)</p> <p>The Dalton Pass Section of the Philippines-Japan Friendship Highway is always prone to road closure everytime strong rains or typhoons hit this part of Northern Luzon. Six provinces in the Cagayan Valley Region and the Cordillera Autonomous Region are isolated from the rest of Luzon when the Dalton Pass Section is made unpassable by landslides and road cuts. Because of this problem, 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.</p> <p>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.</p> <p>(FY 1992 Overseas Survey)</p> <p>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.</p>																			
5.TYPE OF STUDY	F/S																				
6.COUNTERPART AGENCY	Dept. of Public Works and Highways (DPWH)																				
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:	EIRR1) 17.80 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)																
10.STUDY TEAM	<p>No.of Members 11</p> <p>Period May.1981-Mar.1982(10 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>68.76</td> <td>13.93</td> <td>54.83</td> </tr> </tbody> </table>	Total M/M	Japan	Field	68.76	13.93	54.83	<p>Conditions and Development Impacts:</p> <p>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.</p> <p>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.</p>													
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																			
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>217,540 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>215,452</td> </tr> </tbody> </table>		217,540 (¥'000)	Total		Contracted	215,452	<p>OUT to counterparts on traffic survey and data analysis.</p>													
	217,540 (¥'000)																				
Total																					
Contracted	215,452																				
		2.MAJOR REASONS FOR PRESENT STATUS																			
		<p>Judging by the present economic situation, the implementation of a big project seems to be unrealistic within the limited budget of the Ministry in charge.</p>																			
		3.PRINCIPAL SOURCE OF INFORMATION																			
		①③																			

和名 ダルトン・バス・トンネル計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/S 312/82

Compiled Mar.1986  
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	Southern area of Manila Metropolitan zone including Las Pinas Paranaque and Muntinlupa														
2.NAME OF STUDY	Metro Manila Outer Major Roads Project (Southern Package)	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>92,200</td> <td>63,000</td> <td>29,200</td> </tr> <tr> <td>(US\$1=225Yen=7.95peso)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	92,200	63,000	29,200	(US\$1=225Yen=7.95peso)			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	92,200	63,000	29,200														
(US\$1=225Yen=7.95peso)																	
3.SECTOR	Transportation/Road	3.CONTENTS OF MAJOR PROJECT(S)	<p>Improvement of roads, 17.8km</p> <p>(1) Paranaque to Sucat Road (7.5km) for expansion 2 lanes to 6 lanes</p> <p>(2) Zapote to Alabang Road (10.3km) for expansion 2 lanes to 4 lanes</p> <p>New road construction, 20.7km</p> <p>Taguig-Las Pinas - Muntinlupa Road</p> <p>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.</p> <p>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.</p>														
4.REFERENCE NO.																	
5.TYPE OF STUDY	F/S																
6.COUNTERPART AGENCY	Dept. of Public Works and Highways (DPWH)																
7.OBJECTIVES OF STUDY	Road Planning																
8.DATE OF S/W	Dec.1980	Imp. Period:	1985-1994														
9.CONSULTANT(S)	Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>40.00</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2</td> <td></td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td></td> <td>FIRR3</td> </tr> </tbody> </table>			Feasibility:	EIRR1	40.00	FIRR1	Yes	EIRR2		FIRR2		EIRR3		FIRR3
Feasibility:	EIRR1	40.00	FIRR1														
Yes	EIRR2		FIRR2														
	EIRR3		FIRR3														
10.STUDY TEAM	<p>No. of Members 12</p> <p>Period Mar.1981-Mar.1982(13 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>69.03</td> <td>9.86</td> <td>59.17</td> </tr> </tbody> </table>	Total M/M	Japan	Field	69.03	9.86	59.17	<p>Conditions and Development Impacts:</p> <p>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, Taguig-Las Pinas-Muntinlupa Road (new construction), Total length 38.5km.</p> <p>[Assumptions for IRR calculation]</p> <p>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.</p> <p>[Development Impacts]</p> <p>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.</p>	<p>1.PRESENT STATUS</p> <p><input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting</p> <p><input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended</p> <p><input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled</p> <p><input type="checkbox"/> Processing</p> <p>(Description)</p> <p>(FY 1992 Overseas Survey)</p> <p>1.Widening of the Paranaque to Sucat Section</p> <p>Jul.1986 - Mar.1990. Detailed design by DPWH funds(TCGI Engineers)</p> <p>May.1990 Construction commenced partly by IBRD fund (L/A Sept. 1984,US\$102 million) and partly by own funds(179 million pesos).</p> <p>2.Widening of the Zapote ~ Alabang Section</p> <p>Detailed design completed with IBRD finance. D/D completed in 1991 by GOP funds.</p> <p>3.Taguig ~ Las Pinas ~ Muntinlupa Section</p> <p>The F/S was reviewed during Apr. - Aug. 1986(funded by the World Bank). The original proposal was rerouted to the section from Taguig 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.</p> <p>Jan.1988 OECF loan (Ph-P88) L/A signed (E/S package loan 20 million yen)</p> <p>Apr.1989 - Jan.1991.</p> <p>Detailed Design(C-5 Western and Southern Sections) completed(Katahira &amp; Engineers)</p> <p>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)</p>								
Total M/M	Japan	Field															
69.03	9.86	59.17															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey, soil survey, Analysis of samples	5.technical transfer	OJT and JICA training program for counterparts														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>171,819 (¥000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>166,210</td> </tr> </tbody> </table>	Total	171,819 (¥000)	Contracted	166,210		<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>Paranaque-Sucat Road:</p> <p>Since this was considered very urgent, DPWH started by its own fund</p> <p>Other roads:</p> <p>For administrative and economical reasons, DPWH is hoping for external finance from OECF or IBRD</p> <p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①③</p>										
Total	171,819 (¥000)																
Contracted	166,210																

和名 マニラ首都圏南部地区幹線道路網計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/A 305/82

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	The north-east District of Luzon island Pangasinan province, Mabini														
2.NAME OF STUDY	Mabini Agricultural Development Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>127,129</td> <td>55,698</td> <td>71,431</td> </tr> <tr> <td>US\$1=8Ps</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	127,129	55,698	71,431	US\$1=8Ps			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	127,129	55,698	71,431														
US\$1=8Ps																	
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	Irrigation Area : 11,500 ha Dam : Central core type rockfill dam (H:88.5m L:530m) Effective Capacity 240 MCM Irrigation head race: 7.7 km (0.7km tunnel) Main Canal : 52.5 km (Q=20.5-10.1cu.m/s) Branch Canal : 135.3 km														
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>12.80</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2</td> <td></td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td></td> <td>FIRR3</td> </tr> </tbody> </table>			Feasibility:	EIRR1	12.80	FIRR1	Yes	EIRR2		FIRR2		EIRR3		FIRR3
Feasibility:	EIRR1	12.80	FIRR1														
Yes	EIRR2		FIRR2														
	EIRR3		FIRR3														
5.TYPE OF STUDY	F/S	Conditions and Development Impacts: Conditions: Benefit by irrigation and hydroelectric power generation Development Impacts: Increase of agricultural products, Rise in agricultural income, Reduction of flood damage by dam construction															
6.COUNTERPART AGENCY	National Irrigation Administration (NIA)	10.STUDY TEAM No.of Members 15 Period Sep.1981-Mar.1982 (7 months) <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>44.96</td> <td>15.17</td> <td>29.79</td> </tr> </tbody> </table>				Total M/M	Japan	Field	44.96	15.17	29.79						
Total M/M	Japan	Field															
44.96	15.17	29.79															
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	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY															
8.DATE OF S/W	Feb.1981	5.technical transfer 1.OJT 2.Acceptance of Trainees (2 persons)															
9.CONSULTANT(S)	Japan Engineering Consultants Co., Ltd. Nihon Suiko Consultant Co., Ltd.	2.MAJOR REASONS FOR PRESENT STATUS Adjustment of project priority in the government from Marcos regime to Akino regime. (FY 1992 Overseas Survey) Economic and political circumstances.															
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>106,975 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>99,241</td> </tr> </tbody> </table>		106,975 (¥'000)	Total		Contracted	99,241	3.PRINCIPAL SOURCE OF INFORMATION ①②									
	106,975 (¥'000)																
Total																	
Contracted	99,241																

和名 マビニ地区農業開発計画

{F/S,(M/P)+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	Maragondon, Cavite Province, Luzon Island (Area 13,000ha)														
2.NAME OF STUDY	Alcogas Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>23,290</td> <td>12,890</td> <td>10,400</td> </tr> <tr> <td>US\$1=8P</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	23,290	12,890	10,400	US\$1=8P			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	23,290	12,890	10,400														
US\$1=8P																	
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)	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.														
4.REFERENCE NO.																	
5.TYPE OF STUDY	F/S																
6.COUNTERPART AGENCY	Philippine National Alcohol Commission (PNAC)																
7.OBJECTIVES OF STUDY	To clarify the feasibility on the agricultural and industrial development plan of raw materials and alcohol production																
8.DATE OF S/W	Dec.1980	Imp. Period:	Jan.1981-May.1986														
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Chuo Kaihatsu International Corp.	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>9.70</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </tbody> </table>			Feasibility:	EIRR1)	9.70	FIRR1)	Yes	EIRR2)		FIRR2)		EIRR3)		FIRR3)
Feasibility:	EIRR1)	9.70	FIRR1)														
Yes	EIRR2)		FIRR2)														
	EIRR3)		FIRR3)														
10.STUDY TEAM	No.of Members 11 Period Mar.1980-Mar.1982 (29 months) <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>32.00</td> <td>10.00</td> <td>22.00</td> </tr> </tbody> </table>	Total M/M	Japan	Field	32.00	10.00	22.00	Conditions and Development Impacts: Conditions of Project Evaluation: 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.	1.PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled								
Total M/M	Japan	Field															
32.00	10.00	22.00															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer	Technology transfer to counterparts in the course of the study.														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>139,123 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>101,171</td> </tr> </tbody> </table>		139,123 (¥'000)	Total		Contracted	101,171		2.MAJOR REASONS FOR PRESENT STATUS  3.PRINCIPAL SOURCE OF INFORMATION ①								
	139,123 (¥'000)																
Total																	
Contracted	101,171																

和名 アルコガス計画

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

# PROJECT SUMMARY (Basic Study)

Compiled Mar.1990  
Revised Mar.1993

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
2.NAME OF STUDY	Topographic Mapping Project for Cagayan Valley	2.PROJECT COST	<div>(US\$1,000)</div> <div>1) Total Cost    Local Cost    Foreign Cost</div> <div>2)</div>		<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
3.SECTOR	Social Infrastructures/Survey & Mapping	3.CONTENT'S OF MAJOR PROJECT(S)	(Description) (FY 1991 Overseas Survey) Geodetic control data from the study were used by government and private surveyors. Topographic maps were used for the development planning of the mapped areas, particularly in river basins and coastal zones.		
4.REFERENCE NO.		1st year: aerophotos (1/30,000, 15,000 sq.km)			
5.TYPE OF STUDY	Basic Study	2nd year: datum points surveyed			
6.COUNTERPART AGENCY	Ministry of Defense, Dept.of Coastal Survey	3rd year: aero-trianquulation and orthoscopic photos			
7.OBJECTIVES OF STUDY		4th year: aero-trianquulation, topographic original maps, ortho-photo maps	2.MAJOR REASONS FOR PRESENT STATUS		
8.DATE OF S/W	Mar.1978	5th year: topographic maps (1/25,000, 72 plates)			
9.CONSULTANT(S)	International Engineering Consultants Association	4.CONDITIONS AND DEVELOPMENT IMPACTS			
10.STUDY TEAM	No.of Members    19 Period Feb.1979-Feb.1983(48 months)  <div>Total M/M                  Japan                  Field</div>				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION		
12.EXPENDITURE	<div>Total                  931,676 (¥'000)</div> <div>Contracted            803,651</div>		①②		

和名 カガヤン・バレー地区地図作成

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

# PROJECT SUMMARY (F/S)

ASE PHL/S 313/83

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	C-5, C-6, Mindanao Av. and Visayas Road in Metro Manila																														
2.NAME OF STUDY	Metro Manila Outer Major Roads Project (Northern Package)	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>77,697</td> <td>44,214</td> <td>33,483</td> </tr> <tr> <td>(US\$1=14.0 pesos)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	77,697	44,214	33,483	(US\$1=14.0 pesos)																			
	Total Cost	Local Cost	Foreign Cost																														
(US\$1,000)	77,697	44,214	33,483																														
(US\$1=14.0 pesos)																																	
3.SECTOR	Transportation/Road	3.CONTENTES OF MAJOR PROJECT(S)	<p>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.</p> <table border="1"> <thead> <tr> <th>ROAD SECTION</th> <th>STAGE1</th> <th>NO. OF LANES</th> <th>STAGE 2</th> </tr> <tr> <th></th> <th></th> <th>PHASE1/PHASE2</th> <th></th> </tr> </thead> <tbody> <tr> <td>C-5</td> <td>6</td> <td>8</td> <td>20</td> </tr> <tr> <td>C-6</td> <td>4</td> <td>2</td> <td>16</td> </tr> <tr> <td>Mindanao Ave.</td> <td>6</td> <td>2</td> <td>14</td> </tr> <tr> <td>Visayas Ave.</td> <td>4</td> <td>-</td> <td>4</td> </tr> <tr> <td>Total</td> <td>20</td> <td>12</td> <td>48</td> </tr> </tbody> </table> <p>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)</p>			ROAD SECTION	STAGE1	NO. OF LANES	STAGE 2			PHASE1/PHASE2		C-5	6	8	20	C-6	4	2	16	Mindanao Ave.	6	2	14	Visayas Ave.	4	-	4	Total	20	12	48
ROAD SECTION	STAGE1	NO. OF LANES	STAGE 2																														
		PHASE1/PHASE2																															
C-5	6	8	20																														
C-6	4	2	16																														
Mindanao Ave.	6	2	14																														
Visayas Ave.	4	-	4																														
Total	20	12	48																														
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>46.30</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td></td> <td>FIRR3)</td> </tr> </tbody> </table> <p>Conditions and Development Impacts: [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. [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.</p>			Feasibility:	EIRR1)	FIRR1)	Yes	46.30	FIRR2)			FIRR3)																			
Feasibility:	EIRR1)	FIRR1)																															
Yes	46.30	FIRR2)																															
		FIRR3)																															
5.TYPE OF STUDY	F/S	5.technical transfer																															
6.COUNTERPART AGENCY	Dept. of Public Works and Highways (DPWH)	6.PRINCIPAL SOURCE OF INFORMATION	①③④																														
7.OBJECTIVES OF STUDY	To evaluate the feasibility of the outer major roads in economic, financial and technical aspects	7.MAJOR REASONS FOR PRESENT STATUS	<p>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)</p> <p>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.</p>																														
8.DATE OF S/W	Feb.1982	8.PRINCIPAL SOURCE OF INFORMATION																															
9.CONSULTANT(S)	Nippon Engineering Consultants Co., Ltd.	9.PRINCIPAL SOURCE OF INFORMATION																															
10.STUDY TEAM	No.of Members 10 Period Jun.1982-Jun.1983(12 months)  Total M/M Japan Field	10.PRINCIPAL SOURCE OF INFORMATION																															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		11.PRINCIPAL SOURCE OF INFORMATION																															
12.EXPENDITURE	Total 161,996 (¥'000) Contracted 156,087	12.PRINCIPAL SOURCE OF INFORMATION																															

和名 マニラ首都圏北部地区幹線道路網計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/A 307/83

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	20,000ha in Bayombong valley in Nueva Vizcaya Province		1.PRESENT STATUS  <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY	Matuno River Development Project	2.PROJECT COST	Total Cost 424,067 Local Cost 166,015 Foreign Cost 258,052 (US\$1,000) US\$1-240Yen in 1983						
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)	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		(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.				
4.REFERENCE NO.		7.OBJECTIVES OF STUDY	Combined irrigation and hydropower development on Matuno river						
5.TYPE OF STUDY	F/S	8.DATE OF S/W	Oct.1981						
6.COUNTERPART AGENCY	National Irrigation Authority National Power Corporation	9.CONULTANT(S)	Chuo Kaihatsu International Corp.						
		4.FEASIBILITY AND ITS ASSUMPTIONS	Imp. Period: 1984-1996 Feasibility: Yes EIRR1 18.50 FIRR1 EIRR2 FIRR2 EIRR3 FIRR3						
		5.technical transfer	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				
10.STUDY TEAM	No.of Members 17 Period Jan.1982-Feb.1984 (26 months)  <table border="1"> <tr> <th>Total M/M</th> <th>Japan</th> <th>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				3.PRINCIPAL SOURCE OF INFORMATION					
12.EXPENDITURE	<table border="1"> <tr> <td>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	1.Training in Japan 2.OJT		①	
Total	302,187 (¥'000)								
Contracted	287,093								

和名 マツノ川開発計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/A 308/83

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	Upper Pampanga River Basin in Central Luzon (Nueva Ecija & Bulacan Provinces)		1.PRESENT STATUS  <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled															
2.NAME OF STUDY	Improvement Project of the Operation & Maintenance of National Irrigation Systems (UPRIIS)	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>83,290</td> <td>32,918</td> <td>50,372</td> </tr> <tr> <td>2) US\$1=11P</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	83,290	32,918	50,372	2) US\$1=11P				3)		
	Total Cost	Local Cost	Foreign Cost																	
1) (US\$1,000)	83,290	32,918	50,372																	
2) US\$1=11P																				
3)																				
3.SECTOR	Agriculture/General	3.CONTENT OF MAJOR PROJECT(S)	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		(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.															
4.REFERENCE NO.		8.DATE OF S/W	Jul.1982																	
5.TYPE OF STUDY	F/S	9.CONULTANT(S)	Nihon Koei Co., Ltd. Nippon Giken Inc.																	
6.COUNTERPART AGENCY	National Irrigation Administration	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>19.30</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2</td> <td></td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td></td> <td>FIRR3</td> </tr> </tbody> </table>			Feasibility:	EIRR1	19.30	FIRR1	Yes	EIRR2		FIRR2		EIRR3		FIRR3			
Feasibility:	EIRR1	19.30	FIRR1																	
Yes	EIRR2		FIRR2																	
	EIRR3		FIRR3																	
7.OBJECTIVES OF STUDY	To identify the constraints of the existing irrigation system, and to propose the improvement/rehabilitation plans	5.TECHNICAL TRANSFER	Technology transfer to counterparts in the course of the study. Group training in Japan (one person).		2.MAJOR REASONS FOR PRESENT STATUS															
10.STUDY TEAM	No.of Members 10 Period Sep.1982-Feb.1984 (18 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>59.81</td> <td>15.44</td> <td>44.37</td> </tr> </tbody> </table>	Total M/M	Japan	Field	59.81	15.44	44.37	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY			3.PRINCIPAL SOURCE OF INFORMATION ①②									
Total M/M	Japan	Field																		
59.81	15.44	44.37																		
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>183,882 (¥000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>147,788</td> </tr> </tbody> </table>		183,882 (¥000)	Total		Contracted	147,788													
	183,882 (¥000)																			
Total																				
Contracted	147,788																			

和名 かんがい組織維持管理強化計画 (UPRIIS)

{F/S,(M/P)+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	Bulacan and Pampanga Provinces, Central Luzon Islands, area 35,000 ha														
2.NAME OF STUDY	Improvement Project of the Operation and Maintenance of National Irrigation Systems (AMRIS)	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>46,450</td> <td>23,723</td> <td>22,727</td> </tr> <tr> <td>US\$1=11P in 1982</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	46,450	23,723	22,727	US\$1=11P in 1982			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	46,450	23,723	22,727														
US\$1=11P in 1982																	
3.SECTOR	Agriculture/General	3.CONTENT OF MAJOR PROJECT(S)	Diversion weir : building & repair 4 places Irrigation canal : building & repair 271.3 km Drainage canal : building & repair 202.3 km Road : building & repair 285.8 km Terminal facilities: 34,965 ha * Above project costs are in 1982 prices.														
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>17.53</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2</td> <td></td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td></td> <td>FIRR3</td> </tr> </tbody> </table>			Feasibility:	EIRR1	17.53	FIRR1	Yes	EIRR2		FIRR2		EIRR3		FIRR3
Feasibility:	EIRR1	17.53	FIRR1														
Yes	EIRR2		FIRR2														
	EIRR3		FIRR3														
5.TYPE OF STUDY	F/S	Conditions and Development Impacts: Conditions: - 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 of state-operated irrigation facilities implemented by NIA - Improvement of maintenance and management function by improving irrigation and drainage facilities in newly expanded areas															
6.COUNTERPART AGENCY	NIA (National Irrigation Administration)	(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.															
7.OBJECTIVES OF STUDY		2.MAJOR REASONS FOR PRESENT STATUS All of the public investment has been delayed due to the deterioration of the Philippine economy.															
8.DATE OF S/W	Feb.1982	3.PRINCIPAL SOURCE OF INFORMATION ①②															
9.CONSULTANT(S)	Sanyu Consultants Inc. kyowa Engineering Consultants Co., Ltd.	5.technical transfer - transfer to NIA - group training															
10.STUDY TEAM	No. of Members 21 Period Sep.1982-Feb.1984 (17 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>79.05</td> <td>14.11</td> <td>64.94</td> </tr> </tbody> </table>	Total M/M	Japan	Field	79.05	14.11	64.94	12.EXPENDITURE <table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>183,882 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>204,964</td> <td></td> </tr> </tbody> </table>				Total	183,882 (¥'000)	Contracted	204,964		
Total M/M	Japan	Field															
79.05	14.11	64.94															
	Total	183,882 (¥'000)															
Contracted	204,964																
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																	

和名 かんがい組織維持管理強化計画 (AMRIS, 18地区)

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

# PROJECT SUMMARY (Other)

ASE PHL/S 602/83

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS													
1.COUNTRY	Philippines	1.SITE OR AREA	Surrounding area of Mayor Volcano in the southeast of Luzon														
2.NAME OF STUDY	Mayon Volcano Sabo and Flood Control Project (Re-Study)	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>1) 20,190</td> <td>14,690</td> <td>5,500</td> </tr> <tr> <td>(US\$1=8P)</td> <td>2)</td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 20,190	14,690	5,500	(US\$1=8P)	2)		
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	1) 20,190	14,690	5,500														
(US\$1=8P)	2)																
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTES OF MAJOR PROJECT(S)	<p>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.</p> <p>1st stage Sabo works (Training levee, slur dike, consolidation dam and sobo dam) : Quirangay River, Masarawaq River, Nasisi River, Anuling River (1), Anuling River (2), Budiao River, Pawa-Burabad River</p> <p>1st stage Disaster Prediction and Warning System</p>														
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	<p>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.</p>														
5.TYPE OF STUDY	Other																
6.COUNTERPART AGENCY	Dept. of Public Works and Highways (DPWH)																
7.OBJECTIVES OF STUDY	Sabo plan for the area of southern slope of Mayon Volcano based on the disaster due to typhoon Daling in 1981																
8.DATE OF S/W	Feb.1982																
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Sabo Technical Center																
10.STUDY TEAM	<p>No.of Members 12</p> <p>Period Jun.1982-Mar.1983(10 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>56.63</td> <td>33.03</td> <td>23.60</td> </tr> </tbody> </table>	Total M/M	Japan	Field	56.63	33.03	23.60	2.MAJOR REASONS FOR PRESENT STATUS									
Total M/M	Japan	Field															
56.63	33.03	23.60															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer	3.PRINCIPAL SOURCE OF INFORMATION														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>144,352 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>138,421</td> </tr> </tbody> </table>			Total	144,352 (¥'000)	Contracted	138,421	<p>(1) The lecture of sabo technology for the counterparts was held in the local office.</p> <p>(2) The training of sabo, hydrology, river engineering and surveying was carried out</p>		<p>(Description)</p> <p>The following construction works in the southern slope proposed for the 1st stage were carried out by local fund.</p> <p>Quirangay River : Training Levee No.2</p> <p>Anuling River : Training Levee No.2, No.3 and No.4</p> <p>Pawa-Burabad River : Training Levee No.5 and No.6</p> <p>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.</p> <p>(FY 1991 Overseas Survey)</p> <p>No additional information.</p>							
Total	144,352 (¥'000)																
Contracted	138,421																

和名 マヨン火山砂防計画

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

# PROJECT SUMMARY (M/P)

ASE PHL/S 105/84

Compiled Mar.1988  
Revised Mar.1992

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						
2.NAME OF STUDY	Infanta - Real Area Urban Development Project	2.PROJECT COST	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 615,000 (US\$1=20P) 2)		<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
3.SECTOR	Social Infrastructures/Urban Planning & Land Development	3.CONTENTES OF MAJOR PROJECT(S)	(1) Improvement of transport conditions (2) Development of regional natural resources (fishery)		(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.						
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	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.		2.MAJOR REASONS FOR PRESENT STATUS						
5.TYPE OF STUDY	M/P	10.STUDY TEAM	No.of Members 15 Period Jul.1983-Mar.1985(21 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>75.26</td> <td>5.40</td> <td>69.86</td> </tr> </tbody> </table>			Total M/M	Japan	Field	75.26	5.40	69.86
Total M/M	Japan	Field									
75.26	5.40	69.86									
6.COUNTERPART AGENCY	Human Settlement Development Corporation	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY									
7.OBJECTIVES OF STUDY	Master plan for the urban development in Infanta-Real area upon establishing the development strategy and target.	5.technical transfer	(1) Acceptance of trainees: One <1> counterpart (2 months) (2) Use of Local consultant: Social, economic and financial analysis		3.PRINCIPAL SOURCE OF INFORMATION						
8.DATE OF S/W	Apr.1983	12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>221,634 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>212,283</td> <td></td> </tr> </tbody> </table>			Total	221,634 (¥'000)	Contracted	212,283		①
	Total	221,634 (¥'000)									
Contracted	212,283										
9.CONSULTANT(S)	Yachiyo Engineering Co., Ltd.										

和名 インファンタ・リアル都市開発計画

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

## PROJECT SUMMARY (M/P)

Compiled Mar.1990  
Revised Mar.1993

ASE PHL/A 101/84

I. OUTLINE OF STUDY			II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
<b>1.COUNTRY</b>	Philippines		<b>1.SITE OR AREA</b>	Nationwide		<b>1.PRESENT STATUS</b>	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued	
<b>2.NAME OF STUDY</b>	Nationwide Ice Plants and Cold Storages Network System		<b>2.PROJECT COST</b>	Total Cost    Local Cost    Foreign Cost (US\$1,000)              1)              57,284              50,761              6,523 2) US\$1=240Yen		(Description)		
<b>3.SECTOR</b>	Fisheries/Fisheries		<b>3.CONTENTS OF MAJOR PROJECT(S)</b>	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.		<p>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.</p> <p>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.</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>(FY1991 Overseas Survey)</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, but the Philippine Fishery Development Authority (PFDA) plans to reapply for the 18th Yen Credit Package.</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>		
<b>4.REFERENCE NO.</b>			<b>4.CONDITIONS AND DEVELOPMENT IMPACTS</b>	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 techniques and organizing fishermen's association 6)Effective use of MFP		<b>2.MAJOR REASONS FOR PRESENT STATUS</b>		
<b>5.TYPE OF STUDY</b>	M/P							
<b>6.COUNTERPART AGENCY</b>	Department of Agriculture							
<b>7.OBJECTIVES OF STUDY</b>	To formulate a M/P for the IPCS Network System							
<b>8.DATE OF S/W</b>	Aug.1983							
<b>9CONSULTANT(S)</b>	System Science Consultants							
<b>10.STUDY TEAM</b>	No.of Members    11 Period Nov.1983-Mar.1985(17 months)  <div style="display: flex; justify-content: space-around;"> <span>Total M/M 65.04</span> <span>Japan 15.60</span> <span>Field 49.44</span> </div>							
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>	Nil							
<b>12.EXPENDITURE</b>	Total                      167,813 (¥'000) Contracted                156,761		<b>5.TECHNICAL TRANSFER</b>	- Acceptance of trainees - Joint work related to creation of report		<b>3.PRINCIPAL SOURCE OF INFORMATION</b>		
						O24		

和名 水産物流通システム整備計画

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

## PROJECT SUMMARY (F/S)

ASE PHL/S 316/84

Compiled Mar. 1988  
Revised Mar. 1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
<b>1.COUNTRY</b>	Philippines	<b>1.SITE OR AREA</b>			<b>1.PRESENT STATUS</b>
<b>2.NAME OF STUDY</b>	Philippine Road Disaster Prevention Project	1)San Jose - Aritao (Northern Luzon) 2)Mahaplag - Soqod (Leyte) 3)Rosario - Baguio (Northern Luzon)			<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input checked="" type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
<b>3.SECTOR</b>	Transportation/Road	<b>2.PROJECT COST</b>	Total Cost	Local Cost	Foreign Cost
<b>4.REFERENCE NO.</b>		(US\$1,000)	26,300	10,200	16,100
<b>5.TYPE OF STUDY</b>	F/S	(US\$1=234.3Yen)	1)	2)	3)
<b>6.COUNTERPART AGENCY</b>	Ministry of Public Works and Highways	<b>3.CONTENTS OF MAJOR PROJECT(S)</b>			
<b>7.OBJECTIVES OF STUDY</b>	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)Kenon 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.			
<b>8.DATE OF S/W</b>	Feb.1983	<b>Imp. Period:</b>	Jul.1987-Jun.1990		
<b>9.CONULTANT(S)</b>	Nippon Engineering Consultants Co., Ltd. Katahira & Engineers International	<b>4.FEASIBILITY AND ITS ASSUMPTIONS</b>	Feasibility:	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)
<b>10.STUDY TEAM</b>	No.of Members 8 Period May.1983-Jun.1984(13 months)  Total M/M Japan Field 1.75 54.11	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)Kenon Road.			
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>	Geological and topographic surveys	<b>5.TECHNICAL TRANSFER</b>			
<b>12.EXPENDITURE</b>	Total 181,268 (¥'000) Contracted 160,257	OJT and JICA training program for counterparts			
		<b>(Description)</b>	(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)		
		<b>2.MAJOR REASONS FOR PRESENT STATUS</b>	- large impact - high priority		
		<b>3.PRINCIPAL SOURCE OF INFORMATION</b>	①③④		

和名 道路防災計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/S 314/84

Compiled Mar.1988  
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	Northern Luzon (Region I)		1.PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled			
2.NAME OF STUDY	Development Project of the Port of San Fernando	2.PROJECT COST	Total Cost 18,400 Local Cost 7,345 Foreign Cost					
3.SECTOR	Transportation/Port	3.CONTENTES OF MAJOR PROJECT(S)	Wharf(Pier -10 - -14m) 900m 4,500sq.m Transit Sheds 32,000sq.m Open Storage Yard 12,000sq.m Roads 12,000sq.m		(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.			
4.REFERENCE NO.		5.TYPE OF STUDY	F/S					
6.COUNTERPART AGENCY	Philippine Ports 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	Oct.1982	9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja					
10.STUDY TEAM	No.of Members 9 Period Feb.1983-Mar.1984(14 months)  <table border="1"> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> <tr> <td>58.77</td> <td>38.40</td> <td>20.37</td> </tr> </table>	Total M/M	Japan	Field		58.77	38.40	20.37
Total M/M	Japan	Field						
58.77	38.40	20.37						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Natural Conditions Survey	5.technical transfer	Counterpart training for method of feasibility study to two counterparts					
12.EXPENDITURE	Total 128,037 (¥'000) Contracted 129,003	2.MAJOR REASONS FOR PRESENT STATUS		3.PRINCIPAL SOURCE OF INFORMATION				
		(1) Shortage of finance (2) Alternation from the Marcos Government to the new Government (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				

和名 サンフェルナンド港整備計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/S 315/84

Compiled Mar.1988  
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	Covering the whole country		1.PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled												
2.NAME OF STUDY	Development Project on the Meteorological Telecommunication System	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>18,626</td> <td>2,206</td> <td>16,421</td> </tr> <tr> <td>(US\$1=238Yen)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	18,626	2,206	16,421	(US\$1=238Yen)			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	18,626	2,206	16,421														
(US\$1=238Yen)																	
3.SECTOR	Transportation/Meteorology & Seismology	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) Jun.1992 Construction started Feb.1995 Construction to be completed														
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	Imp. Period:	Sep.1988-Feb.1995														
9.CONSULTANT(S)	Japan Weather Association	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>51.90</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </tbody> </table>			Feasibility:	EIRR1)	51.90	FIRR1)	Yes	EIRR2)		FIRR2)		EIRR3)		FIRR3)
Feasibility:	EIRR1)	51.90	FIRR1)														
Yes	EIRR2)		FIRR2)														
	EIRR3)		FIRR3)														
10.STUDY TEAM	No.of Members 13 Period Aug.1983-Sep.1984(14 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>80.00</td> <td>33.00</td> <td>47.00</td> </tr> </tbody> </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		5. TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS												
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>261,238 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>209,692</td> <td></td> </tr> </tbody> </table>		Total	261,238 (¥'000)	Contracted	209,692		Technical guidance relating to telecommunication, data exchange system and observation system has been given to two (2) F/S counterpart officials.			(1) Greatness of project impact - Mitigation of meteorological disasters - Economic impacts resulting from mitigation of transportation disasters (2) High priority of the project						
	Total	261,238 (¥'000)															
Contracted	209,692																
					3.PRINCIPAL SOURCE OF INFORMATION												
					①④												

和名 気象通信網整備計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/A 310/84

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	Southwestern Pampanga river basin, Pampanga Province, Central Luzon		1.PRESENT STATUS  <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled											
2.NAME OF STUDY	Gumain River Irrigation Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>197,714</td> <td>80,928</td> <td>116,786</td> </tr> <tr> <td>US\$1=14P</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	197,714	80,928	116,786	US\$1=14P		
	Total Cost	Local Cost	Foreign Cost													
(US\$1,000)	197,714	80,928	116,786													
US\$1=14P																
3.SECTOR	Agriculture/General	3.CONTENT(S) OF MAJOR PROJECT(S)	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		(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.																
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)	Nihon Koei Co., Ltd. Nippon Giken Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 12.80 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)											
10.STUDY TEAM	No. of Members 15 Period Jul.1983-Feb.1985 (20 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>72.96</td> <td>33.75</td> <td>39.21</td> </tr> </tbody> </table>	Total M/M	Japan	Field	72.96	33.75	39.21	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.		2.MAJOR REASONS FOR PRESENT STATUS (FY 1992 Overseas Survey) Damage caused by the eruption of Mt. Pinatubo.						
Total M/M	Japan	Field														
72.96	33.75	39.21														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic mapping	5. TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION												
12.EXPENDITURE	<table border="1"> <tbody> <tr> <td>Total</td> <td>267,250 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>258,015</td> </tr> </tbody> </table>	Total	267,250 (¥'000)	Contracted	258,015	Technology transfer to counterparts in the course of the study.		①②								
Total	267,250 (¥'000)															
Contracted	258,015															

和名 グマイン川灌漑開発計画

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

# PROJECT SUMMARY (M/P)

ASE PHL/S 107/85

Compiled Mar.1988  
Revised Mar.1992

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 (US\$1,000) 1) 40,212 2)	(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.  (FY 1991 Overseas Survey) No additional information.							
3.SECTOR	Transportation/Urban Transportation	3.CONTENTES OF MAJOR PROJECT(S)	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								
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	(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								
5.TYPE OF STUDY	M/P										
6.COUNTERPART AGENCY	Ministry of Transportation and Communications										
7.OBJECTIVES OF STUDY	Transportation rerouting plan Transportation development policy			2.MAJOR REASONS FOR PRESENT STATUS 1) Jeepneys, unlike buses, are proven difficult for local authorities to manage, and the data collected during the study is now outdated. An attempt to strengthen route management was largely unsuccessful. 2) Mode interchange areas are already builtup areas with higher land price. The private sector is reluctant to develop unprofitable transport terminals and does not have the know-how to increase the value added of such development by integrating with commercial/business facilities development. The government lacks administrative and financial capability to encourage the private sector.							
8.DATE OF S/W	Jul.1982										
9.CONSULTANT(S)	ALMEC Corporation										
10.STUDY TEAM	No.of Members 15 Period Oct.1982-Mar.1984 (31 months) Jun.1984-Sep.1985 <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>158.68</td> <td>13.56</td> <td>145.12</td> </tr> </tbody> </table>	Total M/M	Japan	Field	158.68	13.56	145.12			3.PRINCIPAL SOURCE OF INFORMATION ①②	
Total M/M	Japan	Field									
158.68	13.56	145.12									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	transport surveys and systems analysis										
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>490,159 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>468,192</td> </tr> </tbody> </table>	Total	490,159 (¥'000)	Contracted	468,192	5.technical transfer	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				
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,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P)

ASE PHL/S 106/85

Compiled Mar.1988  
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	Panay Basin, Copig Province, Panay Island		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued									
2.NAME OF STUDY	Panay River Basin-Wide Flood Control	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>1)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1=234Yen)</td> <td>2)</td> <td>323,000</td> <td>195,000</td> <td>128,000</td> </tr> </tbody> </table>			(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost	(US\$1=234Yen)	2)	323,000	195,000
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost										
(US\$1=234Yen)	2)	323,000	195,000	128,000										
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTS OF MAJOR PROJECT(S)	<p>(Description)</p> <p>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.</p> <p>(FY 1991 Overseas Survey)</p> <p>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 (MIPIP) and the Medium-term Technical Assistance Program.</p>											
4.REFERENCE NO.		<p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>* Above project costs are in 1984 prices.</p>												
5.TYPE OF STUDY	M/P													
6.COUNTERPART AGENCY	Dept. of Public Works and Highways (DPWH)													
7.OBJECTIVES OF STUDY	Flood control	4.CONDITIONS AND DEVELOPMENT IMPACTS	2.MAJOR REASONS FOR PRESENT STATUS											
8.DATE OF S/W	Dec.1982	<p>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.</p> <p>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.</p> <p>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.</p>												
9.CONSULTANT(S)	Nihon Koei Co., Ltd.	5.technical transfer	3.PRINCIPAL SOURCE OF INFORMATION											
10.STUDY TEAM	<p>No.of Members 18</p> <p>Period Feb.1983-Nov.1985(33 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>89.92</td> <td>21.65</td> <td>68.29</td> </tr> </tbody> </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			①②											
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>414,927 (¥000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>241,418</td> </tr> </tbody> </table>					414,927 (¥000)	Total		Contracted	241,418				
	414,927 (¥000)													
Total														
Contracted	241,418													

和名 パナイ河流域洪水防御基本計画

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

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

ASE PHL/S 203A/85

Compiled Mar.1988  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Philippines	1.SITE OR AREA			1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Development Project on the Port of Batangas	South-west of Luzon									
3.SECTOR	Transportation/Port	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    13,632    5,684    7,948 (US\$1=19P)    2)		(Description) Followed by F/S.						
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)									
5.TYPE OF STUDY	M/P+ (F/S)	(Master Plan) 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									
6.COUNTERPART AGENCY	Philippine Ports Authority										
7.OBJECTIVES OF STUDY	Preparation for 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	4.CONDITIONS AND DEVELOPMENT IMPACTS									
10.STUDY TEAM	No.of Members    10 Period   Sep.1984-Dec.1985(16 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>76.49</td> <td>44.50</td> <td>31.99</td> </tr> </tbody> </table>	Total M/M	Japan	Field		76.49	44.50	31.99	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.		
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										
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>181,400 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>178,642</td> <td></td> </tr> </tbody> </table>		Total	181,400 (¥'000)	Contracted	178,642		5.technical transfer			
	Total	181,400 (¥'000)									
Contracted	178,642										
		Counterpart training (3 persons) - Feasibility study method - Field survey of ports similar to Batangas port									
		3.PRINCIPAL SOURCE OF INFORMATION									
		①②									

和名 バタンガス港整備計画

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

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

**ASE PHL/S 203B/85**

Compiled Mar.1988  
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	South-west Luzon	1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Development Project on the Port of Batangas	2.PROJECT COST	Total Cost 1) 13,631 (US\$1,000) 2) (US\$1=19P) 3)	(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  (FY1991 Overseas Survey) 1992-1995 Construction scheduled	
3.SECTOR	Transportation/Port	3.CONTENTES OF MAJOR PROJECT(S)	11 berths in total are planned as follows:  Foreign Trade: 1 berth 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.		7.OBJECTIVES OF STUDY	Preparation of Master Plan (target year 2000) and short-term development plan (target year 1990)		
5.TYPE OF STUDY	(M/P)+F/S	8.DATE OF S/W	Jun.1984		
6.COUNTERPART AGENCY	Philippine Port Authority	9.CONCONSULTANT(S)	Overseas Coastal Area Development Institute of Ja	2.MAJOR REASONS FOR PRESENT STATUS	
		4.FEASIBILITY AND ITS ASSUMPTIONS	Imp. Period: Jun.1986-Dec.1989  Feasibility: EIRR1) 35.00 FIRR1) 0.50 Yes EIRR2) FIRR2) EIRR3) FIRR3)		
		10.STUDY TEAM	Conditions and Development Impacts: 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.  Development Impact: 1) The incremental valued added arising from cargo transportation. 2) The reduction of transportation costs between Batauqas and Calapan. 3) The saving of berth waiting costs.		
		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Sounding survey, Shoreline survey, Geographical survey, Soil explorations		
12.EXPENDITURE	Total 181,400 (¥000) Contracted 178,642	5.technical transfer	Counterpart training(3 persons) - Feasibility study method - Field survey of ports similar to Batangas port	3.PRINCIPAL SOURCE OF INFORMATION	
				①②④	

和名 バタンガス港整備計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/S 318/85

Compiled Mar.1988  
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) Lucena - Calawag (N.Luzon) 2) Allen - Calbayog (Samar) 3) Bauang - Baguio (N.Luzon)														
2.NAME OF STUDY	Philippine Road Disaster Prevention Project, Stage II	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>3,725</td> <td>1,438</td> <td>2,287</td> </tr> <tr> <td>(US\$1=236.4Yen)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	3,725	1,438	2,287	(US\$1=236.4Yen)			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	3,725	1,438	2,287														
(US\$1=236.4Yen)																	
3.SECTOR	Transportation/Road	3.CONTENTES OF MAJOR PROJECT(S)	<p>Protection of shoulder slope:            Lucena - Calawag 95.7 km            Allen - Calbayog 72.9 km            Naqilian Road 47.2 km            Total 215.8 km</p> <p>Earth Work            Drainage work: surface drain, subsurface drain            Slope protection work: concrete spraying etc.            Structural Work: anchoring etc.            Catch Work: anchor wire net etc.</p> <p>Note) Large scale riparian and Sabo works were excluded.</p>														
4.REFERENCE NO.																	
5.TYPE OF STUDY	F/S																
6.COUNTERPART AGENCY	Ministry of Public Works and Highways																
7.OBJECTIVES OF STUDY	Formulation of disaster prevention measures for 3 selected sections of national highways																
8.DATE OF S/W	Aug.1984	Imp. Period:	Jan.1990-Aug.1991														
9.CONSULTANT(S)	Nippon Engineering Consultants Co., Ltd. Katahira & Engineers International	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>16.00</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2</td> <td>14.40</td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td>15.40</td> <td>FIRR3</td> </tr> </tbody> </table> <p>Conditions and Development Impacts:            Conditions:            (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.</p> <p>Development impacts:            (1)Better access to isolated areas.            (2)Recovery of road reliability.            (3)Stimulation of private investments            (4)Saving of rehabilitation costs</p> <p>Note) The above EIRRs indicate 1)Lucena-Calawag, 2)Allen-Calbayog, 3)Naqilian Road.</p>			Feasibility:	EIRR1	16.00	FIRR1	Yes/No	EIRR2	14.40	FIRR2		EIRR3	15.40	FIRR3
Feasibility:	EIRR1	16.00	FIRR1														
Yes/No	EIRR2	14.40	FIRR2														
	EIRR3	15.40	FIRR3														
10.STUDY TEAM	No.of Members 7 Period Sep.1984-Jul.1985(9 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td></td> <td>2.46</td> <td>29.00</td> </tr> </tbody> </table>	Total M/M	Japan	Field		2.46	29.00										
Total M/M	Japan	Field															
	2.46	29.00															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological and topographic surveys	5.technical transfer	JICA and JICA training program for counterparts														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>99,822 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>93,173</td> <td></td> </tr> </tbody> </table>		Total	99,822 (¥'000)	Contracted	93,173											
	Total	99,822 (¥'000)															
Contracted	93,173																
		1.PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing															
		(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. Lucena - Calauag Section 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. Mar.1990 - Jan 1991 Detailed design(Pavement, Bridges, drainage & disaster prevention)on the Lucena - Calauag Section(96km) completed (Toko Consultants) Total investment 461.7 million pesos (OECF379.2 million, GOP82.5 million) Jun.1991 Construction commenced (scheduled to be completed in Jun.1996) 2. Allen - Calbayog Section(73km) and Naguilian Road(47km) Feb.1990 OECF loan (Ph-P105) L/A signed (Disaster Prevention and Rehabilitation 5,708 million yen)															
		2.MAJOR REASONS FOR PRESENT STATUS															
		- large impact - high priority															
		3.PRINCIPAL SOURCE OF INFORMATION															
		①③④															

和名 道路防災計画ステージII

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

# PROJECT SUMMARY (F/S)

ASE PHL/S 317/85

Compiled Mar.1988  
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	Upstream reach of Agno River, middle Luzon island														
2.NAME OF STUDY	San Roque Multi-Purpose Project (Re-Study)	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>1,200,000</td> <td></td> <td></td> </tr> <tr> <td>(US\$1=9,00P)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1,200,000			(US\$1=9,00P)			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	1,200,000																
(US\$1=9,00P)																	
3.SECTOR	Social Infrastructures/Water Resource Development	3.CONTENT OF MAJOR PROJECT(S)	<table border="1"> <thead> <tr> <th>structure</th> <th>Scale</th> </tr> </thead> <tbody> <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> </tbody> </table>			structure	Scale	Main Dam (filldam)	Gross storage 990 million cu.m Effective storage 670 million cu.m	Installed Capacity	390MW						
structure	Scale																
Main Dam (filldam)	Gross storage 990 million cu.m Effective storage 670 million cu.m																
Installed Capacity	390MW																
4.REFERENCE NO.		(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.															
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)	Nihon Koei 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 border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>38.35</td> <td>12.69</td> <td>25.66</td> </tr> </tbody> </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.									
Total M/M	Japan	Field															
38.35	12.69	25.66															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER															
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td></td> <td>117,374 (¥'000)</td> <td>102,244</td> </tr> </tbody> </table>		Total	Contracted		117,374 (¥'000)	102,244	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 ①						
	Total	Contracted															
	117,374 (¥'000)	102,244															
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.															

和名 サンロケ多目的ダム開発計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/A 311/85

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	Asue river and adjacent basin (irrigated area: 6,760ha)		1.PRESENT STATUS  <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled												
2.NAME OF STUDY	Asue River Basin Agricultural Development Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>38,470</td> <td>16,927</td> <td>21,543</td> </tr> <tr> <td>US\$1=240Yen in Oct.1984</td> <td>72,813</td> <td>40,408</td> <td>32,405</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	38,470	16,927	21,543	US\$1=240Yen in Oct.1984	72,813	40,408	32,405
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	38,470	16,927	21,543														
US\$1=240Yen in Oct.1984	72,813	40,408	32,405														
3.SECTOR	Agriculture/General	3.CONTENT(S) OF MAJOR PROJECT(S)	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. The Cost 1) above is based on the effective exchange rate as of Oct. 1984, and the cost 2) includes price changes.		(Description) (FY1991 Overseas Survey) The Government of the Philippines has no plan to obtain finance for the project.												
4.REFERENCE NO.																	
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	Imp. Period:															
9.CONSULTANT(S)	Chuo Kaihatsu International Corp. Sanyu Consultants Inc. Tamano Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	<table border="1"> <tbody> <tr> <td>EIRR1</td> <td>13.20</td> <td>FIRR1</td> <td>9.70</td> </tr> <tr> <td>EIRR2</td> <td></td> <td>FIRR2</td> <td></td> </tr> <tr> <td>EIRR3</td> <td></td> <td>FIRR3</td> <td></td> </tr> </tbody> </table>	EIRR1	13.20	FIRR1	9.70	EIRR2		FIRR2		EIRR3		FIRR3		
EIRR1	13.20	FIRR1	9.70														
EIRR2		FIRR2															
EIRR3		FIRR3															
10.STUDY TEAM	No.of Members 12 Period May.1984-Aug.1985(16 months) <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>70.43</td> <td>31.26</td> <td>39.17</td> </tr> </tbody> </table>	Total M/M	Japan	Field	70.43	31.26	39.17	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		2.MAJOR REASONS FOR PRESENT STATUS (FY 1992 Overseas Survey) Economic and political circumstances.							
Total M/M	Japan	Field															
70.43	31.26	39.17															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION													
12.EXPENDITURE	<table border="1"> <tbody> <tr> <td>Total</td> <td>225,492 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>210,094</td> </tr> </tbody> </table>	Total	225,492 (¥000)	Contracted	210,094	Training in Japan		①②									
Total	225,492 (¥000)																
Contracted	210,094																

和名 アスエ川流域農業開発計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/A 312/85

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	Wariq River Basin of Bohol Islands Irrigation area 5,300ha, Drainage area 12,700ha														
2.NAME OF STUDY	Bohol Irrigation Development Project (Phase II)	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>36,556</td> <td>14,333</td> <td>22,222</td> </tr> <tr> <td>US\$1=18P</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	36,556	14,333	22,222	US\$1=18P			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	36,556	14,333	22,222														
US\$1=18P																	
3.SECTOR	Agriculture/General	3.CONTENT(S) OF MAJOR PROJECT(S)	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														
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>15.40</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2) <td></td> <td>FIRR2) </td></td></tr> <tr> <td></td> <td>EIRR3) <td></td> <td>FIRR3) </td></td></tr> </tbody> </table>			Feasibility:	EIRR1)	15.40	FIRR1)	Yes	EIRR2) <td></td> <td>FIRR2) </td>		FIRR2)		EIRR3) <td></td> <td>FIRR3) </td>		FIRR3)
Feasibility:	EIRR1)	15.40	FIRR1)														
Yes	EIRR2) <td></td> <td>FIRR2) </td>		FIRR2)														
	EIRR3) <td></td> <td>FIRR3) </td>		FIRR3)														
5.TYPE OF STUDY	F/S	Conditions and Development Impacts: 1) Improvement of Living Standard of Regional Farmers. 2) Supply of Drinking Water (3.9 l/s or 366 m3/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.															
6.COUNTERPART AGENCY	National Irrigation Authority	5.TECHNICAL TRANSFER To the counterpart in the process of implementation.															
7.OBJECTIVES OF STUDY	Agricultural development plan with irrigation facilities	10.STUDY TEAM No.of Members 12 Period Dec.1984-Feb.1985(20 months) <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>51.13</td> <td>19.10</td> <td>32.03</td> </tr> </tbody> </table>				Total M/M	Japan	Field	51.13	19.10	32.03						
Total M/M	Japan	Field															
51.13	19.10	32.03															
8.DATE OF S/W	Feb.1984	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY															
9.CONSULTANT(S)	Sanyu Consultants Inc. Nihon Suido Consultants Co., Ltd. Naigai Engineering Co., Ltd. Aero Asahi Cor.	12.EXPENDITURE <table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>197,006 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>189,602</td> <td></td> </tr> </tbody> </table>					Total	197,006 (¥'000)	Contracted	189,602							
	Total	197,006 (¥'000)															
Contracted	189,602																
		1.PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing															
		(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).															
		2.MAJOR REASONS FOR PRESENT STATUS															
		3.PRINCIPAL SOURCE OF INFORMATION ①②															

和名 ボホール灌漑開発計画 フェーズII

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

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

ASE PHL/S 204A/86

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	Two cities (Angeles and Dagupan) and two groups of towns (Cabayao, Santa Rosa and Biniyan; Bayombong and Sorano)		1.PRESENT STATUS										
2.NAME OF STUDY	Municipal Water Supply Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>1)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1=20.50P)</td> <td>2)</td> <td>43,678</td> <td>18,573</td> <td>25,105</td> </tr> </tbody> </table>		(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost	(US\$1=20.50P)	2)	43,678	18,573	25,105	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost											
(US\$1=20.50P)	2)	43,678	18,573	25,105											
3.SECTOR	Public Utilities/Water Supply	3.CONTENT OF MAJOR PROJECT(S)	(1) Angeles City: Construction of 13 tube wells, 3 distribution reservoir and booster pumping station (2) Dagupan 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		(Description) Followed by F/S.										
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS													
5.TYPE OF STUDY	M/P+(F/S)	Conditions: EIRR: End of construction 1995: project life of 20 years; own fund 5%, government subsidy 5%, government loan 10 - 12%, and annual reserve of 5 - 10%; basic charge equivalent to 5% of the income of low-income families; rate increase less than 60% of the old rate. FIRR: Increase of land price, improvement of health and economic value of water are taken into account. The shadow pricing factor is 1.3 for foreign exchange, 0.5 for the premium of unskilled labor, and 1.0 for other components.													
6.COUNTERPART AGENCY	Local Water Utilities Administration (LWUA)	Impacts: 1)Improvement of living environment 2)Economic impacts are as follows. - Decrease of water-borne diseases - Reduction of medical expenses - Increase of working hours - Increase of land prices - Reduction of fire damages													
7.OBJECTIVES OF STUDY	Formulation of a master plan for water supply in seven local cities and towns	5. TECHNICAL TRANSFER		2.MAJOR REASONS FOR PRESENT STATUS											
8.DATE OF S/W	Oct.1985	(1) On-the-job training on development planning for urban water supply system. (2) On-the-job training on tube well construction.		- This water supply projects are expected highly social economic benefit for the project area. - LWUA, executing agency, is nation-wide agency and control almost water supply projects in the Philippines, so LWUA can influence government policy.											
9.CONSULTANT(S)	Nippon Jogesuido Sekkei Co., Ltd.			3.PRINCIPAL SOURCE OF INFORMATION											
10.STUDY TEAM	No.of Members 10 Period Feb.1986-Mar.1987(0 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>40.97</td> <td>19.93</td> <td>22.04</td> </tr> </tbody> </table>	Total M/M	Japan	Field	40.97	19.93	22.04			①					
Total M/M	Japan	Field													
40.97	19.93	22.04													
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Water quality analysis														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>163,499 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>149,175</td> <td></td> </tr> </tbody> </table>		Total	163,499 (¥'000)	Contracted	149,175									
	Total	163,499 (¥'000)													
Contracted	149,175														

和名 地方都市上水道整備計画

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

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

ASE PHL/S 204B/86

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	Two cities (Angeles and Dagupan) 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 checked="" type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled															
2.NAME OF STUDY	Municipal Water Supply Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>43,678</td> <td>18,573</td> <td>25,105</td> </tr> <tr> <td>(US\$1=20.50P)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	43,678	18,573	25,105	(US\$1=20.50P)						
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	43,678	18,573	25,105																	
(US\$1=20.50P)																				
3.SECTOR	Public Utilities/Water Supply	3.CONTENT OF MAJOR PROJECT(S)	<table border="1"> <thead> <tr> <th></th> <th>Phase I(1986-95)</th> <th>Phase II(1996-2010)</th> </tr> </thead> <tbody> <tr> <td>(1)Source Facility</td> <td>test well</td> <td>11 of deep wells</td> </tr> <tr> <td>(2)Transmission Facility</td> <td>Construction of Transmission facility (3,500m)</td> <td>Additional Transmission line (1,300m)</td> </tr> <tr> <td>(3)Treatment Facility</td> <td>Chlorination Facilities</td> <td>Chlorination facilities</td> </tr> <tr> <td>(4)Distribution Facility</td> <td>Construction of Reservoir(2400sq.m)</td> <td>Extension of Reservoir to 7000sq.m</td> </tr> </tbody> </table>			Phase I(1986-95)	Phase II(1996-2010)	(1)Source Facility	test well	11 of deep wells	(2)Transmission Facility	Construction of Transmission facility (3,500m)	Additional Transmission line (1,300m)	(3)Treatment Facility	Chlorination Facilities	Chlorination facilities	(4)Distribution Facility	Construction of Reservoir(2400sq.m)	Extension of Reservoir to 7000sq.m	(Description) D/D was completed for Dagupan, and Bayombong - Sorano. 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
	Phase I(1986-95)	Phase II(1996-2010)																		
(1)Source Facility	test well	11 of deep wells																		
(2)Transmission Facility	Construction of Transmission facility (3,500m)	Additional Transmission line (1,300m)																		
(3)Treatment Facility	Chlorination Facilities	Chlorination facilities																		
(4)Distribution Facility	Construction of Reservoir(2400sq.m)	Extension of Reservoir to 7000sq.m																		
4.REFERENCE NO.		7.OBJECTIVES OF STUDY																		
5.TYPE OF STUDY	(M/P)+F/S	8.DATE OF S/W	Oct.1985																	
6.COUNTERPART AGENCY	Local Water Utilities Administration (LWUA)	9.CONCONSULTANT(S)	Nippon Jogesuido Sekkel Co., Ltd.																	
		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>13.70</th> <th>FIRR1)</th> <th>17.60</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td>13.10</td> <td>FIRR2)</td> <td>6.00</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>13.40</td> <td>FIRR3)</td> <td>12.30</td> </tr> </tbody> </table>		Feasibility:	EIRR1)	13.70	FIRR1)	17.60	Yes	EIRR2)	13.10	FIRR2)	6.00		EIRR3)	13.40	FIRR3)	12.30	
Feasibility:	EIRR1)	13.70	FIRR1)	17.60																
Yes	EIRR2)	13.10	FIRR2)	6.00																
	EIRR3)	13.40	FIRR3)	12.30																
		Conditions and Development Impacts: Conditions: EIRR: End of construction 1995; project life of 20 years; own fund 5%, government subsidy 5%, government loan 10 - 12%, and annual reserve of 5 - 10%, etc. FIRR: Increase of land price, improvement of health and economic value of water are taken into account. The shadow pricing factor is 1.3 for foreign exchange, 0.5 for the premium of unskilled labor, and 1.0 for other components. Note: EIRRs and FIRRs above are for 1)Angeles, 2)Dagupan, 3)Cabayao-Santa Rosa - Biniyan. EIRR and FIRR for Bayombong - Sorano are 13.5% and 4.3%. Impacts: As the direct benefit, the following impacts are expected: - Increase in the area and population to be served. - Continuous supply of safe water																		
10.STUDY TEAM	No.of Members 10 Period Feb.1986-Mar.1987(14 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>40.97</td> <td>19.93</td> <td>22.04</td> </tr> </tbody> </table>	Total M/M	Japan	Field	40.97	19.93	22.04	5.technical transfer	- On-the-job training on development planning and tube well construction - JICA training program for counterparts		2.MAJOR REASONS FOR PRESENT STATUS									
Total M/M	Japan	Field																		
40.97	19.93	22.04																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					- Development of water supply systems has high priority among BHN-related projects. - Effectiveness of LWUA															
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>163,499 (Y'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>149,175</td> <td></td> </tr> </tbody> </table>		Total	163,499 (Y'000)	Contracted	149,175					3.PRINCIPAL SOURCE OF INFORMATION									
	Total	163,499 (Y'000)																		
Contracted	149,175																			
					①④															

和名 地方都市上水道整備計画

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

# PROJECT SUMMARY (M/P)

ASE PHL/S 108/87

Compiled 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	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	(US\$1,000) 1) 1,608,927 (US\$1=20.5p) 2)								
3.SECTOR	Social Infrastructures/Water Resource Development	3.CONTENTS OF MAJOR PROJECT(S)	(1) Sipfu Multi Dam Project, Dam Height 58 m (2) Matuno Multi Dam Project, Dam Height 147 m (3) Maliq Dam Project, Dam Height 84 m (4) Tuquegarao River Training Project 22.1 km (5) Maqapit Dredging Project (6) Pinacanauan Irrigation Rehabilitation Project 1,220 ha		(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.						
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	This project generally has tremendous effects on irrigation, flood control and hydropower development and additionally, it has an advantage on social security problem because an opportunity of labour will be expected to increase in local area.								
5.TYPE OF STUDY	M/P	10.STUDY TEAM	No. of Members 15 Period Oct.1985-Aug.1987 (23 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>140.97</td> <td>72.29</td> <td>68.68</td> </tr> </tbody> </table>		Total M/M	Japan	Field	140.97	72.29	68.68	2.MAJOR REASONS FOR PRESENT STATUS Worsening security problems.
Total M/M	Japan	Field									
140.97	72.29	68.68									
6.COUNTERPART AGENCY	Department of Public Works and Highways	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY									
7.OBJECTIVES OF STUDY	Master Plan of Water Resources	5.technical transfer	(1) 4 special OJT (2) 2 OJT in Japan (3) To finalize report with counterpart		3.PRINCIPAL SOURCE OF INFORMATION ①②						
8.DATE OF S/W	Aug.1985	12.EXPENDITURE									
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Nikken Consultants., Inc.										

和名 カガヤン河流域水資源開発基本計画

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

# PROJECT SUMMARY (M/P)

ASE PHL/A 102/87

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	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 (US\$1,000) 1) 51,707 17,317 34,390 US\$1=20.5 Pesos 2)		(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	3.CONTENTES OF MAJOR PROJECT(S)	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.									
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	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%									
5.TYPE OF STUDY	M/P	5.technical transfer	1) OJT 2) Acceptance of Trainee (Maintenance & Operation Soft Ware)									
6.COUNTERPART AGENCY	National Irrigation Administration	7.OBJECTIVES OF STUDY	Improvement in the central-method of water by repairing existing irrigation facilities		2.MAJOR REASONS FOR PRESENT STATUS							
8.DATE OF S/W	Nov.1985	10.STUDY TEAM	No.of Members 18 Period Feb.1986-Mar.1987(14 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>130.35</td> <td>54.07</td> <td>70.78</td> </tr> </tbody> </table>		Total M/M	Japan	Field	130.35	54.07	70.78	Implementation of the project is being postponed due to the increase of local crime rate.	
Total M/M	Japan	Field										
130.35	54.07	70.78										
9.CONSULTANT(S)	Sanyu Consultants Inc. Naigai Engineering Co., Ltd. Nihon Suiko Consultant Co., Ltd.	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY			3.PRINCIPAL SOURCE OF INFORMATION							
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>361,520 (Y'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>330,294</td> </tr> </tbody> </table>	Total	361,520 (Y'000)	Contracted	330,294			①②				
Total	361,520 (Y'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,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (F/S)

ASE PHL/S 319/87

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 checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing																																																														
2.NAME OF STUDY	Road Improvement Project on the Pan-Philippine Highway (Philippines-Japan Friendship Highway)	North Study Section 200km (Sta. Rita-Aritao) South Study Section 181km (Calamba-Calauag)																																																																			
3.SECTOR	Transportation/Road	2.PROJECT COST				(Description) (FY1992 Overseas Survey)																																																															
4.REFERENCE NO.		<table border="1"> <thead> <tr> <th></th> <th>1)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>55,000</td> <td></td> <td>23,000</td> <td></td> </tr> <tr> <td>(US\$1=160Yen)</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							1)	Total Cost	Local Cost	Foreign Cost	(US\$1,000)	55,000		23,000		(US\$1=160Yen)																																																			
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5.TYPE OF STUDY	F/S	3.CONTENTS OF MAJOR PROJECT(S)				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. Santa Rita - Aritao Section 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, Bridges, 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.Calamba - Calauag Section																																																															
6.COUNTERPART AGENCY	Department of Public Works and Highways (DPWH)	<table border="1"> <thead> <tr> <th></th> <th>North Study Section</th> <th>South Study Section</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>(1)Rehabilitation of Road Function (Short term 1987-92)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Road Function</td> <td>6</td> <td>6</td> <td>12</td> </tr> <tr> <td>Signalisation</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>Improvement of Geometrics</td> <td>6</td> <td>7</td> <td>13</td> </tr> <tr> <td>Paving of Shoulders/Sidewalks</td> <td>-</td> <td>-</td> <td>1</td> </tr> <tr> <td>Widening to a 4-lane</td> <td>3</td> <td>-</td> <td>3</td> </tr> <tr> <td>R.O.W Acquisition</td> <td>16</td> <td>10</td> <td>26</td> </tr> <tr> <td>(2)Pavement Rehabilitation Works (Short term)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2-lane PCC Reconstruction</td> <td>91.92</td> <td>110.68</td> <td>202.60</td> </tr> <tr> <td>1-lane PCC Reconstruction</td> <td>113.96</td> <td>21.12</td> <td>135.08</td> </tr> <tr> <td>2 lane AC Overlay</td> <td>69.00</td> <td>5.00</td> <td>74.00</td> </tr> <tr> <td>Treatment of weak Subgrade</td> <td>2.00</td> <td>-</td> <td>2.00</td> </tr> <tr> <td>Side Ditch</td> <td>109.73</td> <td>74.52</td> <td>184.14</td> </tr> <tr> <td>Subsurface Drainage</td> <td>3.25</td> <td>11.25</td> <td>14.25</td> </tr> <tr> <td></td> <td>114.98</td> <td>85.77</td> <td>200.75</td> </tr> </tbody> </table>							North Study Section	South Study Section	Total	(1)Rehabilitation of Road Function (Short term 1987-92)				Road Function	6	6	12	Signalisation	1	2	3	Improvement of Geometrics	6	7	13	Paving of Shoulders/Sidewalks	-	-	1	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
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7.OBJECTIVES OF STUDY	Road Rehabilitation	4.FEASIBILITY AND ITS ASSUMPTIONS				2.MAJOR REASONS FOR PRESENT STATUS																																																															
8.DATE OF S/W	Nov.1985	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>57.20</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2) <td></td> <td>FIRR2) </td></td></tr> <tr> <td></td> <td>EIRR3) <td></td> <td>FIRR3) </td></td></tr> </tbody> </table>						Feasibility:	EIRR1)	57.20	FIRR1)	Yes	EIRR2) <td></td> <td>FIRR2) </td>		FIRR2)		EIRR3) <td></td> <td>FIRR3) </td>		FIRR3)																																																		
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9.CONSULTANT(S)	Nippon Engineering Consultants Co., Ltd. Katahira & Engineers International	Conditions and Development Impacts:				3.PRINCIPAL SOURCE OF INFORMATION																																																															
10.STUDY TEAM	No.of Members 7 Period Jun.1986-Sep.1987(16 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>48.13</td> <td>2.10</td> <td>46.03</td> </tr> </tbody> </table>	Total M/M	Japan	Field	48.13			2.10	46.03	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.																																																											
Total M/M	Japan	Field																																																																			
48.13	2.10	46.03																																																																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey and Geotechnical Investigation	5.technical transfer				①③④																																																															
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>168,225 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>161,111</td> </tr> </tbody> </table>		168,225 (¥'000)	Total				Contracted	161,111	(1) Technical Transfer through Seminar (2) OJT on highway planning and pavement																																																											
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Contracted	161,111																																																																				

和名 日比友好道路・道路改善計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/S 320/87

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	Manila																	
2.NAME OF STUDY	Manila South Port Rehabilitation Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>35,366</td> <td>10,315</td> <td>25,051</td> </tr> <tr> <td>(US\$1=20.5P)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	35,366	10,315	25,051	(US\$1=20.5P)						
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	35,366	10,315	25,051																	
(US\$1=20.5P)																				
3.SECTOR	Transportation/Port	3.CONTENTES OF MAJOR PROJECT(S)	<p>The Port of Manila consists of South Port, North Port and the International Container Terminal. Most of the facilities of South Port were constructed immediately after the 2nd World War, and are now largely obsolete. In addition, spaces and facilities for cargo handling and storage are insufficient. The study proposed the following rehabilitation and expansion of the port facilities.</p> <p>1) Pier 3 : Floor boards, protecting boards, land levelling                  2) Pier 5 : Protecting boards, land levelling, removal of storage sheds                  3) Pier 9 : Protecting boards, land levelling, extension                  4) Pier 13 : Floor and protecting boards                  5) Pier 15 : Floor and protecting boards, land levelling, removal of sheds                  6) Open Storage Area: paving and clearing                  7) Dredging : 1.02 million cu.m                  8) Grain Terminal : 2 floating unloaders</p>																	
4.REFERENCE NO.		7.OBJECTIVES OF STUDY	<p>Review of Master Plan (year 2000) and establishing Short Term Development Plan for South Harbour.</p>																	
5.TYPE OF STUDY	F/S	8.DATE OF S/W	Dec.1985																	
6.COUNTERPART AGENCY	Philippine Port Authority	9.CONULTANT(S)	Overseas Coastal Area Development Institute of Japan Nikken Sekkei Ltd.																	
		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>18.46</th> <th>FIRR1)</th> <th>7.69</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> <td></td> </tr> </tbody> </table> <p>Conditions and Development Impacts: Demand projections are made for the years 1995 and 2005.</p> <p>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%.</p>			Feasibility:	EIRR1)	18.46	FIRR1)	7.69	Yes	EIRR2)		FIRR2)			EIRR3)		FIRR3)	
Feasibility:	EIRR1)	18.46	FIRR1)	7.69																
Yes	EIRR2)		FIRR2)																	
	EIRR3)		FIRR3)																	
10.STUDY TEAM	<p>No.of Members 11</p> <p>Period Mar.1986-Jun.1987(16 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>65.06</td> <td>30.22</td> <td>34.84</td> </tr> </tbody> </table>	Total M/M	Japan	Field	65.06	30.22	34.84	5.technical transfer	<p>1) A seminar held in Manila; 2) A lecture on F/S methodology; 3) OJT through joint work</p>											
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	3.PRINCIPAL SOURCE OF INFORMATION	①②																	
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>228,100 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>214,956</td> <td></td> </tr> </tbody> </table>		Total	228,100 (¥'000)	Contracted	214,956		2.MAJOR REASONS FOR PRESENT STATUS												
	Total	228,100 (¥'000)																		
Contracted	214,956																			

和名 マニラ南港改修計画

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

# PROJECT SUMMARY (M/P)

ASE PHL/A 103/88

Compiled 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	Western Samar Province in Samar Island (excluding small islands)														
2.NAME OF STUDY	Integrated Agricultural/Rural Development Project in Western Samar	2.PROJECT COST	<table border="1"> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> <tr> <td>(US\$1,000)</td> <td>1) 422,500</td> <td></td> <td></td> </tr> <tr> <td>US\$1=20 Pesos</td> <td>2)</td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 422,500			US\$1=20 Pesos	2)		
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	1) 422,500																
US\$1=20 Pesos	2)																
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	<p>Agricultural Development Promotion Project (ADPP) was proposed for 4 priority areas, i.e., San Jorge/Gandara, Jamonini, Calbiqa and Basey. The components are as follows:</p> <p>(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)</p>														
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	<p>In Western Samar Province, the plans are for:</p> <p>1) irrigation 2) drainage 3) agricultural development 4) farm road 5) rural electrification 6) rural water supply 7) social infrastructure 8) farm organization</p> <p>The objectives are: 1) increase in farmers' income, and 2) promotion of employment opportunity.</p> <p>Short-term, Medium-term, and Long-term strategies were proposed.</p>														
5.TYPE OF STUDY	M/P	5.technical transfer	<p>1) Acceptance of trainees 2) Direction of measuring equipment (flow meter, etc.) 3) Co-working during report preparation</p>														
6.COUNTERPART AGENCY	Provincial Government of Samar	6.PRINCIPAL SOURCE OF INFORMATION	①														
7.OBJECTIVES OF STUDY	M/P for the integrated agricultural development in order to vitalize economy in the Province of Samar	7.PRINCIPAL SOURCE OF INFORMATION	①														
8.DATE OF S/W	Dec.1986	8.PRINCIPAL SOURCE OF INFORMATION	①														
9.CONULTANT(S)	Sanyu Consultants Inc. Pacific Consultants International Taiyo Consultants Co., Ltd.	9.PRINCIPAL SOURCE OF INFORMATION	①														
10.STUDY TEAM	<p>No.of Members 13</p> <p>Period Mar.1987-Dec.1988 (15 months)</p> <table border="1"> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> <tr> <td>95.86</td> <td>40.17</td> <td>55.69</td> </tr> </table>	Total M/M	Japan	Field	95.86	40.17	55.69	10.PRINCIPAL SOURCE OF INFORMATION	①								
Total M/M	Japan	Field															
95.86	40.17	55.69															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Discharge Observation	11.PRINCIPAL SOURCE OF INFORMATION	①														
12.EXPENDITURE	<table border="1"> <tr> <td>Total</td> <td>320,574 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>268,403</td> </tr> </table>	Total	320,574 (¥'000)	Contracted	268,403	12.PRINCIPAL SOURCE OF INFORMATION	①										
Total	320,574 (¥'000)																
Contracted	268,403																

和名 西サマル農業総合開発計画

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

# PROJECT SUMMARY (F/S)

ASE PHL/S 321/88

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	73 provinces (F/S on four selected provinces: Cavite, Masbate, Bohol and Agusan del Norte)																																																																																
2.NAME OF STUDY	Rural Road Network Development Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>45,000</td> <td>17,000</td> <td>28,000</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	45,000	17,000	28,000	2)				3)																																																																	
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3)																																																																																			
3.SECTOR	Transportation/Road	3.CONTENT OF MAJOR PROJECT(S)	<p>The road improvement with IRR more than 15 % was proposed to implement Phase I and between 7.5 to 15% for Phase II.</p> <p>-Road Length Proposed for Improvement (km)-</p> <table border="1"> <thead> <tr> <th></th> <th>Cavite</th> <th>Masbate</th> <th>Bohol</th> <th>Agusan del Norte</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>(Phase I)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Major Roads</td> <td>148.9</td> <td>134.5</td> <td>14.7</td> <td>52.6</td> <td>350.7</td> </tr> <tr> <td>Minor Roads</td> <td>157.5</td> <td>73.5</td> <td>107.3</td> <td>12.2</td> <td>350.5</td> </tr> <tr> <td>Total</td> <td>306.4</td> <td>208.0</td> <td>122.0</td> <td>64.8</td> <td>701.2</td> </tr> <tr> <td>(Phase II)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Major Roads</td> <td>-</td> <td>152.8</td> <td>46.5</td> <td>49.3</td> <td>248.6</td> </tr> <tr> <td>Minor Roads</td> <td>113.6</td> <td>28.2</td> <td>83.4</td> <td>48.0</td> <td>273.2</td> </tr> <tr> <td>Total</td> <td>113.6</td> <td>181.0</td> <td>129.9</td> <td>97.3</td> <td>521.8</td> </tr> <tr> <td>(Total (Phase I+II))</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Major Roads</td> <td>148.9</td> <td>287.6</td> <td>61.2</td> <td>101.9</td> <td>599.3</td> </tr> <tr> <td>Minor Roads</td> <td>271.1</td> <td>101.7</td> <td>190.7</td> <td>60.2</td> <td>623.7</td> </tr> <tr> <td>Total</td> <td>420.0</td> <td>389.0</td> <td>251.9</td> <td>162.1</td> <td>1,223.0</td> </tr> </tbody> </table>				Cavite	Masbate	Bohol	Agusan del Norte	Total	(Phase I)						Major Roads	148.9	134.5	14.7	52.6	350.7	Minor Roads	157.5	73.5	107.3	12.2	350.5	Total	306.4	208.0	122.0	64.8	701.2	(Phase II)						Major Roads	-	152.8	46.5	49.3	248.6	Minor Roads	113.6	28.2	83.4	48.0	273.2	Total	113.6	181.0	129.9	97.3	521.8	(Total (Phase I+II))						Major Roads	148.9	287.6	61.2	101.9	599.3	Minor Roads	271.1	101.7	190.7	60.2	623.7	Total	420.0	389.0	251.9	162.1	1,223.0
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4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2</td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td>FIRR3</td> </tr> </tbody> </table>			Feasibility:	EIRR1	FIRR1	Yes	EIRR2	FIRR2		EIRR3	FIRR3																																																																					
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	EIRR3	FIRR3																																																																																	
5.TYPE OF STUDY	F/S	Conditions and Development Impacts:	<p>Conditions:</p> <p>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.</p> <p>Impacts:</p> <p>The regional road development (roads with EIRR of over 15 % ) will extend the network of all-weather roads in the country and stimulate socio-economic growth and employment creation.</p>																																																																																
6.COUNTERPART AGENCY	Dept. of Public Works and Highways (DPWH)	5.technical transfer	OJT for the counterparts																																																																																
7.OBJECTIVES OF STUDY	Development of regional roads (secondary trunk road and lower road classes)	10.STUDY TEAM	<p>No.of Members 10</p> <p>Period Nov.1987-Feb.1989(16 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>55.90</td> <td>13.40</td> <td>42.50</td> </tr> </tbody> </table>			Total M/M	Japan	Field	55.90	13.40	42.50																																																																								
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8.DATE OF S/W	Jul.1987	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Road inventory Traffic survey																																																																																
9.CONSULTANT(S)	Katahira & Engineers International Nippon Engineering Consultants Co., Ltd.	12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td></td> <td>191,294 (¥'000)</td> <td>178,598</td> </tr> </tbody> </table>				Total	Contracted		191,294 (¥'000)	178,598																																																																								
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		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled																																																																																
		(Description)	<p>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.</p> <p>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(Agusan del Norte was replaced by Tarlac).</p> <p>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.</p> <p>Jul.1992 - May 1993 Detailed design to be completed( Katahira &amp; Engineers)</p> <p>Sep.1993 Construction is scheduled to begin(to be completed in 1996). Total Investment 1,009.6 million pesos(OECF848.2 million, GOP161.4 million)</p> <p>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.</p>																																																																																
		2.MAJOR REASONS FOR PRESENT STATUS	<p>The extent of primary road network might be considered adequate especially in built up areas and major municipalities. Rural roads improvement is given high priority in line with the government policy of promoting equity in economic development and social welfare.</p>																																																																																
		3.PRINCIPAL SOURCE OF INFORMATION	①③④																																																																																

和名 地方道路網整備計画

{F/S,(M/P)+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																		
2.NAME OF STUDY	Highland Integrated Rural Development Project in La Trinidad, Province of Benguet	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>12,460</td> <td>5,220</td> <td>7,240</td> </tr> <tr> <td>US\$1=24.2P in 1988</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	12,460	5,220	7,240	US\$1=24.2P in 1988							
	Total Cost	Local Cost	Foreign Cost																		
(US\$1,000)	12,460	5,220	7,240																		
US\$1=24.2P in 1988																					
3.SECTOR	Agriculture/General	3.CONTENT OF MAJOR PROJECT(S)	<table border="1"> <tbody> <tr> <td>Intake Facilities</td> <td>8</td> </tr> <tr> <td>Pond</td> <td>11 (68,500 cu.m)</td> </tr> <tr> <td>Lateral Conduit</td> <td>25 km</td> </tr> <tr> <td>Delivery Conduit</td> <td>30 km</td> </tr> <tr> <td>Diverison Box</td> <td>120</td> </tr> <tr> <td>Deep Well</td> <td>3</td> </tr> <tr> <td>Rural Road</td> <td>30 km</td> </tr> <tr> <td>Community Center</td> <td>7</td> </tr> </tbody> </table>			Intake Facilities	8	Pond	11 (68,500 cu.m)	Lateral Conduit	25 km	Delivery Conduit	30 km	Diverison Box	120	Deep Well	3	Rural Road	30 km	Community Center	7
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4.REFERENCE NO.		<p>(Description)</p> <p>The proposed project was implemented with the Japanese grant aid.</p> <p>Dec.1988 - Apr.1989 Basic design undertaken</p> <p>Jun.1989 E/N signed (1,643 million yen) for Phase I</p> <p>Jun. - Oct.1989 Phase I detailed design undertaken</p> <p>Nov.1989 - Nov.1990 Phase I construction undertaken</p> <p>Jul.1990 E/N signed (1,142 million yen) for Phase II</p> <p>Jul. - Oct.1990 Phase II detailed design undertaken</p> <p>Nov.1990 - Nov.1991 Phase II construction undertaken</p> <p>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.</p> <p>(FY1991 Overseas Survey)</p> <p>No additional information.</p>																			
5.TYPE OF STUDY	F/S																				
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.																				
8.DATE OF S/W	Mar.1987	Imp. Period:	Dec.1988-Mar.1992																		
9.CONSULTANT(S)	Nippon Giken Inc. Nihon Koei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>10.20</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </tbody> </table> <p>Conditions and Development Impacts:</p> <p>Conditions:</p> <p>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</p> <p>Development Impact:</p> <p>1) Increase of supply in quantity of vegetables and cut-flowers in Metro-Manila and the Central Regions</p> <p>2) Increase of employment and training effect</p> <p>3) Increase of farm household income and property value</p> <p>4) Stable supply of potable and household water</p> <p>5) Activation of rural area</p>			Feasibility:	EIRR1)	10.20	FIRR1)	Yes	EIRR2)		FIRR2)		EIRR3)		FIRR3)				
Feasibility:	EIRR1)	10.20	FIRR1)																		
Yes	EIRR2)		FIRR2)																		
	EIRR3)		FIRR3)																		
10.STUDY TEAM	<p>No.of Members 10</p> <p>Period Jul.1987-Nov.1988(14 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>57.49</td> <td>23.87</td> <td>33.62</td> </tr> </tbody> </table>	Total M/M	Japan	Field	57.49	23.87	33.62														
Total M/M	Japan	Field																			
57.49	23.87	33.62																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>- Rural Road Surveying and Irrigation Canal Surveying.</p> <p>- Drilling of Test Wells</p>																				
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>196,644 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>170,000</td> </tr> </tbody> </table>		196,644 (¥'000)	Total		Contracted	170,000	<p>5. TECHNICAL TRANSFER</p> <p>1. Acceptance of Trainee (10 persons)</p>													
	196,644 (¥'000)																				
Total																					
Contracted	170,000																				
		<p>2. MAJOR REASONS FOR PRESENT STATUS</p> <p>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.</p>																			
		<p>3. PRINCIPAL SOURCE OF INFORMATION</p> <p>①②</p>																			

和名 トリニダッド高地農村総合開発計画

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

## PROJECT SUMMARY (F/S)

ASE PHL/A 314/88

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 Existing National Pump Irrigation Systems (Excluding groundwater irrigation systems)				1. PRESENT STATUS  <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled	(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.																			
2. NAME OF STUDY Improvement of Operation and Maintenance in Pumping Irrigation Systems		2. PROJECT COST <table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>16,715</td> <td>5,516</td> <td>11,199</td> </tr> <tr> <td>US\$1=21 Peso</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							Total Cost	Local Cost	Foreign Cost	(US\$1,000)	16,715	5,516	11,199	US\$1=21 Peso										
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(US\$1,000)	16,715	5,516	11,199																							
US\$1=21 Peso																										
3. SECTOR Agriculture/Irrigation, Drainage & Reclamation		3. CONTENTS OF MAJOR PROJECT(S) The project consists of the rehabilitation and improvement of the following pump irrigation systems: <table border="1"> <tbody> <tr> <td>1) Bongca #1</td> <td>(1,204.2)</td> <td>(US\$000)</td> </tr> <tr> <td>2) Bongca #2</td> <td>(1,470.2)</td> <td></td> </tr> <tr> <td>3) Bongca #3</td> <td>( 684.5)</td> <td></td> </tr> <tr> <td>4) Alcala - Amulung</td> <td>(1,433.3)</td> <td></td> </tr> <tr> <td>5) Solana</td> <td>(3,648.9)</td> <td></td> </tr> <tr> <td>6) Libman - Cabusao</td> <td>(3,028.4)</td> <td></td> </tr> <tr> <td>7) ini-hydropower stations</td> <td>(5,246.0)</td> <td></td> </tr> </tbody> </table>				1) Bongca #1	(1,204.2)	(US\$000)	2) Bongca #2	(1,470.2)		3) Bongca #3	( 684.5)		4) Alcala - Amulung	(1,433.3)		5) Solana	(3,648.9)		6) Libman - Cabusao	(3,028.4)		7) ini-hydropower stations	(5,246.0)	
1) Bongca #1	(1,204.2)	(US\$000)																								
2) Bongca #2	(1,470.2)																									
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5) Solana	(3,648.9)																									
6) Libman - Cabusao	(3,028.4)																									
7) ini-hydropower stations	(5,246.0)																									
4. REFERENCE NO.																										
5. TYPE OF STUDY	F/S																									
6. COUNTERPART AGENCY NIA (National Irrigation Administration)																										
7. OBJECTIVES OF STUDY To formulate of operation and maintenance for government managed irrigation pumping system																										
8. DATE OF S/W	Feb. 1987	Imp. Period: 1990-1992																								
9. CONSULTANT(S) Nihon Koel Co., Ltd. Construction Project Consultants		4. FEASIBILITY AND ITS ASSUMPTIONS <table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>19.40</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td>22.40</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>15.60</td> <td>FIRR3)</td> </tr> </tbody> </table>				Feasibility:	EIRR1	19.40	FIRR1)	Yes	EIRR2)	22.40	FIRR2)		EIRR3)	15.60	FIRR3)									
Feasibility:	EIRR1	19.40	FIRR1)																							
Yes	EIRR2)	22.40	FIRR2)																							
	EIRR3)	15.60	FIRR3)																							
10. STUDY TEAM No. of Members 9 Period Aug. 1987-Dec. 1988 (7 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>69.17</td> <td>24.24</td> <td>44.93</td> </tr> </tbody> </table>	Total M/M	Japan	Field	69.17	24.24	44.93		Conditions and Development Impacts: 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.  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.																		
Total M/M	Japan	Field																								
69.17	24.24	44.93																								
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER Technology transfer to counterparts in the course of the study.				2. MAJOR REASONS FOR PRESENT STATUS Peace and order problems in the project areas.																				
12. EXPENDITURE <table border="1"> <tbody> <tr> <td>Total</td> <td>199,448 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>197,131</td> </tr> </tbody> </table>	Total	199,448 (¥'000)	Contracted	197,131		3. PRINCIPAL SOURCE OF INFORMATION ①②																				
Total	199,448 (¥'000)																									
Contracted	197,131																									

和名 ポンプ灌漑施設維持管理改善計画

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

## PROJECT SUMMARY (Basic Study)

Compiled Mar. 1991  
Revised Mar. 1992

ASE PHL/S 502/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS	
<b>1.COUNTRY</b>	Philippines	<b>1.SITE OR AREA</b>	Approx. 1,500 sq.km of Metro Manila Region	<b>1.PRESENT STATUS</b>	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
<b>2.NAME OF STUDY</b>	Establishment of Graphic Information Base Project of National Capital Region	<b>2.PROJECT COST</b>	Total Cost    Local Cost    Foreign Cost	<b>(Description)</b>  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.	
<b>3.SECTOR</b>	Social Infrastructures/Survey & Mapping	(US\$1,000)                  1) 2)			
<b>4.REFERENCE NO.</b>		<b>3.CONTENTES OF MAJOR PROJECT(S)</b>			
<b>5.TYPE OF STUDY</b>	Basic Study	Preparation of : 1.Contoured(Topographic) Mapping (scale 1:10,000) 1500sq.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			
<b>6.COUNTERPART AGENCY</b>	National Mapping and Resource Information Authority(Manila)				
<b>7.OBJECTIVES OF STUDY</b>	Preparation of base maps for urban development planning				
<b>8.DATE OF S/W</b>	.1985	<b>4.CONDITIONS AND DEVELOPMENT IMPACTS</b>		<b>2.MAJOR REASONS FOR PRESENT STATUS</b>  The urban base maps of scale 1:10,000 are prepared for the first time in the Philippines.	
<b>9.CONSULTANT(S)</b>	International Engineering Consultants Association	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.			
<b>10.STUDY TEAM</b>	No.of Members    62 Period Jun.1985-Mar.1989(46 months)				
	Total M/M                  Japan                  Field 200.67                  81.48                  119.19				
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>				<b>3.PRINCIPAL SOURCE OF INFORMATION</b>	
<b>12.EXPENDITURE</b>		<b>5.technical transfer</b>		①②	
Total	761,568 (Y'000)	Technical transfer has been made to the counterparts through the field work in the Philippines and office work in Japan.			
Contracted	751,731				

和名 マニラ都市基本図作成

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

# PROJECT SUMMARY (Other)

ASE PHL/A 602/88

Compiled 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
2.NAME OF STUDY	Preparation of Forest Information in Wide Area and Forest Management Planning	2.PROJECT COST	<div> <div>(US\$1,000)</div> <div>1)</div> <div>2)</div> </div> <div>Total Cost    Local Cost    Foreign Cost</div>		<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
3.SECTOR	Forestry/Forestry & Forest Conservation	3.CONTENTES OF MAJOR PROJECT(S)	(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.		
4.REFERENCE NO.		1. The forest management plan for wide area was formulated on the above mentioned area.			
5.TYPE OF STUDY	Other	2. A 50,000 ha of Model area was established in the above mentioned area and the forest management plan for Model area was formulated.			
6.COUNTERPART AGENCY	Bureau of Forest Development    Ministry of Natural Resources				
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.	4.CONDITIONS AND DEVELOPMENT IMPACTS	2.MAJOR REASONS FOR PRESENT STATUS		
8.DATE OF S/W	May.1985	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.			
9.CONSULTANT(S)	Japan Forest Technical Association Pasco International Inc.	5.technical transfer	3.PRINCIPAL SOURCE OF INFORMATION		
10.STUDY TEAM	No.of Members    14 Period    Jul.1985-Jun.1988(36 months)  <div> <div>Total M/M</div> <div>Japan</div> <div>Field</div> </div> <div>155.00    110.00    45.00</div>	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.			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Aerial Photography				
12.EXPENDITURE	Total    401,069 (¥'000) Contracted    375,054		①②		

和名 広域森林情報分析管理計画

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

# PROJECT SUMMARY (M/P)

ASE PHL/A 105/89

Compiled Mar.1991  
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	The whole of Philippines		1.PRESENT STATUS												
2.NAME OF STUDY	Small Water Impounding Management Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>1) 265,000</td> <td></td> <td></td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> </tr> </tbody> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 265,000				2)			<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	1) 265,000																
	2)																
3.SECTOR	Agriculture/Irrigation, Drainage & Reclamation	3.CONTENTES OF MAJOR PROJECT(S)	(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)														
4.REFERENCE NO.		- Selection of 230 candidate projects for developing small water impounding dams - Preparation of 10 year Action Program (1991-2000) - 118 projects from the 230 candidates will be implemented during the first five years of the Action Program - The rest of the projects will be implemented during the second five years (including 34 projects which should be re-studied)															
5.TYPE OF STUDY	M/P																
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	4.CONDITIONS AND DEVELOPMENT IMPACTS	2.MAJOR REASONS FOR PRESENT STATUS														
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Nippon Giken Inc.	- IRR=17.5% (overall 230 projects) - Increase of production (200,000 ton) by increase of irrigated paddy field (28,000 ha) - Increase of income of beneficiaries (Peso 14,000/family) - Watershed Management (reforestation: 45,000 ha)															
10.STUDY TEAM	No.of Members 11 Period Aug.1988-Feb.1990 (20 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>82.41</td> <td>25.50</td> <td>56.91</td> </tr> </tbody> </table>	Total M/M				Japan	Field	82.41	25.50	56.91							
Total M/M	Japan	Field															
82.41	25.50	56.91															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	none																
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>255,674 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>182,150</td> <td></td> </tr> </tbody> </table>		Total	255,674 (¥'000)	Contracted	182,150		5.technical transfer	3.PRINCIPAL SOURCE OF INFORMATION ①②								
	Total	255,674 (¥'000)															
Contracted	182,150																
		Technology transfer to counterparts in the course of the study. Full-time (15 persons), part-time (8 persons).															

和名 農業用小規模ため池整備計画

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

# PROJECT SUMMARY (M/P)

ASE PHL/A 104/89

Compiled Mar.1991  
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	Nationwide		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued											
2.NAME OF STUDY	Fish Transport System	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>67,817,000</td> <td>20,673,000</td> <td>47,145,000</td> </tr> <tr> <td>2)</td> <td>US\$1=21Peso</td> <td></td> <td></td> </tr> </tbody> </table>			(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	67,817,000	20,673,000	47,145,000	2)	US\$1=21Peso	
(US\$1,000)	Total Cost	Local Cost	Foreign Cost													
1)	67,817,000	20,673,000	47,145,000													
2)	US\$1=21Peso															
3.SECTOR	Fisheries/Fisheries	3.CONTENTES OF MAJOR PROJECT(S)	<p>The Project components are:</p> <ol style="list-style-type: none"> <li>1) Off-shore facilities of fish transport vessel, training vessel, fish carrier vessels and payao.</li> <li>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.</li> <li>3) On-land facilities of antenna tower, tank water treatment facilities.</li> <li>4) On-land equipment of mobiles, workshop equipment, information/communication equipment, cooking facilities and demonstration facilities etc..</li> <li>5) Infrastructure of rehabilitation for existing NFP, access road, extension for city water taking, wiring electrical power primary line and reclamation.</li> </ol>													
4.REFERENCE NO.		<p>(Description)</p> <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>(FY1991 Overseas Survey)</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, but the Philippine Fishery Development Authority (PFDA) plans to reapply for the 18th Yen Credit Package.</p> <p>The PFDA formulated a pilot project, the Intergrated 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>														
5.TYPE OF STUDY	M/P															
6.COUNTERPART AGENCY	Department of Agriculture PFDA															
7.OBJECTIVES OF STUDY	To formulate M/P on Fish Transport System in the Philippines to improve the seafood treatment															
8.DATE OF S/W	Feb.1988	4.CONDITIONS AND DEVELOPMENT IMPACTS	<p>2.MAJOR REASONS FOR PRESENT STATUS</p>													
9.CONSULTANT(S)	System Science Consultants	<p>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.</p> <p>Development Impacts:</p> <p>Direct Benefits- the value in saving cost/time through the FTS project.</p> <p>Indirect Benefits-</p> <ol style="list-style-type: none"> <li>1. Increase in international competitiveness and with it, the acquisition of foreign exchange</li> <li>2. Greater employment opportunities</li> <li>3. Promotion of regional development.</li> <li>4. Increase in the production of fish products</li> <li>5. Redistribution of income among fishermen, fish pond operators, traders, and transporters</li> <li>6. Setting of appropriate fish prices for consumers as well as for fish producers</li> </ol>														
10.STUDY TEAM	<p>No. of Members 11</p> <p>Period Mar.1988-Aug.1989(17 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>49.05</td> <td>19.19</td> <td>29.86</td> </tr> </tbody> </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															
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>149,277 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>140,635</td> </tr> </tbody> </table>		149,277 (¥'000)	Total		Contracted	140,635	5. TECHNICAL TRANSFER	3. PRINCIPAL SOURCE OF INFORMATION							
	149,277 (¥'000)															
Total																
Contracted	140,635															
		<ol style="list-style-type: none"> <li>1) Acceptance of trainees</li> <li>2) Joint work for creation of report</li> <li>3) Fish Quality Testing System</li> </ol>	①②④													

和名 水産物輸送システム総合計画

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

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

ASE PHL/S 206A/89

Compiled Mar.1991  
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	Metro Manila and its Neighboring Area, about 981sq.km in total	1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Flood Control and Drainage Project in Metro Manila	2.PROJECT COST	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 634,883 US\$1=21.3P=132Yen 2)	(Description) A feasibility study was subsequently undertaken on three priority projects (the drainage improvement in East and West of Mangahan, the drainage improvement in Malabon-Tullahan and the river improvement in Pasig River) .							
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTES OF MAJOR PROJECT(S)									
4.REFERENCE NO.		Master plan consists of the flood control for the four main rivers and the drainage improvement for the eight inland areas in Metro Manila and its neighboring area. Flood control in the Pasig-Marikina River, passing through the core of Metro Manila, consists of the construction of Marikina Dam and Marikina Control Gate Structure(MCGS) as well as the river channel improvement. Over three Rivers such as Bili-Baho-Mahaba, Malabon-Tullahan and South Paranaque-Las-Pinas consists of river channel improvement. As for the drainage system by pumping station and drainage channel was fundamentally applied. In Malabon-Nabotas and East and West of Mangahan areas, the coastal dike and lake dike is provided along the shoreline.									
5.TYPE OF STUDY	M/P+(F/S)	4.CONDITIONS AND DEVELOPMENT IMPACTS									
6.COUNTERPART AGENCY	Department of Public Works and Highway	Master Plan was prepared with the target year of 2020, considering the financial restriction for implementation. The safety degree of the plan was set based on the economic evaluation and social significance of the area. Flood Control: Pasig-Marikina River 100 year / Other 3 Rivers 30 year Drainage Improvement: Marabon-Navotas 5 year / East of Mangahan 5 year West of Mangahan 5 year/ Other 5 areas 3 year		2.MAJOR REASONS FOR PRESENT STATUS							
7.OBJECTIVES OF STUDY	To prepare the master plan of flood control and drainage improvement in Metro Manila and to conduct the feasibility study on the selected priority projects	In the above, drainage improvement in Manila and its neighboring area is not included because the construction of three pumping stations and drainage channel improvement are on-going under the 14th OECF loan, together with the retrieval of flood-prone area under the JICA grant aid. The safety degree in this area reaches almost 10 year after the completion of these aid projects. Impacts: The drastic decrease of flood & drainage damage can be expected.									
8.DATE OF S/W	Jul.1987	10.STUDY TEAM									
9.CONSULTANT(S)	CTI Engineering Co., Ltd. Nihon Koei Co., Ltd.	No.of Members 14 Period Dec.1987-Mar.1990(27 months) <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>123.94</td> <td>71.84</td> <td>52.10</td> </tr> </tbody> </table>		Total M/M	Japan	Field	123.94	71.84	52.10		
Total M/M	Japan	Field									
123.94	71.84	52.10									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Longitudinal and Cross Sectional Survey of Rivers and Main Channels Installation of Rain Gauge and Water Level Gauge Stations	5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION							
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>366,706 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>344,031</td> </tr> </tbody> </table>	Total	366,706 (¥'000)	Contracted	344,031	Transfer of knowledge 1.On-the-job-training for counterparts by each expert. 2.Guidance and training on hydrological observation, operation and maintenance		①②			
Total	366,706 (¥'000)										
Contracted	344,031										

和名 マニラ洪水対策計画

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

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

ASE PHL/S 206B/89

Compiled Mar.1991  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Philippines	1.SITE OR AREA	1.East and West of Mangahan 2.Marabon-Navotas 3.Pasig-Marikina River																		
2.NAME OF STUDY	Flood Control and Drainage Project in Metro Manila	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>1) 132,000</td> <td>35,400</td> <td>96,600</td> </tr> <tr> <td>US\$1=21.3P=132Yen</td> <td>2) 52,400</td> <td>16,600</td> <td>35,800</td> </tr> <tr> <td></td> <td>3) 65,800</td> <td>22,300</td> <td>43,500</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 132,000	35,400	96,600	US\$1=21.3P=132Yen	2) 52,400	16,600	35,800		3) 65,800	22,300	43,500
	Total Cost	Local Cost	Foreign Cost																		
(US\$1,000)	1) 132,000	35,400	96,600																		
US\$1=21.3P=132Yen	2) 52,400	16,600	35,800																		
	3) 65,800	22,300	43,500																		
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTS OF MAJOR PROJECT(S)	<p>1.Drainage Improvement in East and West of Mangahan.</p> <ul style="list-style-type: none"> <li>-Lake Dike : 10,700m in total length</li> <li>-Pumping station : 9 places</li> <li>-New construction of drainage channel : 19,750m in total length</li> </ul> <p>2.Drainage Improvement in Malabon-Navotas</p> <ul style="list-style-type: none"> <li>-Coastal Dike : 6,890m in total length</li> <li>-Pumping station : 6 places</li> <li>-New construction of drainage channel(Open channel) : 2,700m in total length</li> </ul> <p>3.Pasig-Marikina River Improvement</p> <ul style="list-style-type: none"> <li>-River Improvement : 23,920m in total length</li> <li>-Marikina Control Gate Structure(MCGS) : 1 place</li> </ul>																		
4.REFERENCE NO.		<p>(Description)</p> <p>The priority projects were incorporated into the Medium Term Investment Plan 1987 - 1992. (FY199 Overseas Survey)</p> <p>Of the three projects, the Drainage Improvement in East and West Mangahan has been included in the 16th OECF Yen Credit for engineering services.</p> <p>Feb.1990 OECF L/A signed (E/S 454 million yen)</p> <p>Feb.1993 D/D completed</p> <p>GOP is planning to apply for an OECF loan for project implementation.</p> <p>(FY1991 Overseas Survey)</p> <p>The proposed project was included in the medium-term investment plan (1987 - 1992).</p>																			
5.TYPE OF STUDY	(M/P)+F/S																				
6.COUNTERPART AGENCY	Dept. of Public Works and Highways (DPWH)																				
7.OBJECTIVES OF STUDY	To prepare the master plan of flood control and drainage improvement in Metro Manila and to conduct the feasibility study on the selected priority projects																				
8.DATE OF S/W	Jul.1987	Imp. Period:	.1991-.2000																		
9.CONSULTANT(S)	CTI Engineering Co., Ltd. Nihon Koei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	<table border="1"> <tbody> <tr> <td>EIRR1)</td> <td>16.80</td> <td>FIRR1)</td> </tr> <tr> <td>EIRR2)</td> <td>15.90</td> <td>FIRR2)</td> </tr> <tr> <td>EIRR3)</td> <td>16.10</td> <td>FIRR3)</td> </tr> </tbody> </table>		EIRR1)	16.80	FIRR1)	EIRR2)	15.90	FIRR2)	EIRR3)	16.10	FIRR3)							
EIRR1)	16.80	FIRR1)																			
EIRR2)	15.90	FIRR2)																			
EIRR3)	16.10	FIRR3)																			
10.STUDY TEAM	<p>No.of Members 14</p> <p>Period Dec.1987-Mar.1990(27 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>123.94</td> <td>71.84</td> <td>52.10</td> </tr> </tbody> </table>	Total M/M	Japan	Field	123.94	71.84	52.10	<p>Conditions and Development Impacts:</p> <p>Conditions:</p> <p>Three priority projects are scheduled to be completed in the year 2000. The design safety of each project is as follows.</p> <p>1) East and West Mangahan : 5 years</p> <p>2) Malabon - Navotas : 5 years</p> <p>3) Pasig - Marikina : 30 years</p> <p>The design safety of the Pasig-Marikina River Improvement is lower than that of the master plan, because the former excludes the Marikina Dam.</p> <p>Development Impacts:</p> <p>Three projects cover the areas in Metro Manila which are most seriously affected by floods and drainage problems. Their implementation will substantially lessen the damages caused by chronic flooding.</p> <p>* EIRR 1) is for East and West Mangahan, EIRR 2) for Malabon - Navotas, and EIRR 3) for Pasig - Marikina.</p>													
Total M/M	Japan	Field																			
123.94	71.84	52.10																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Longitudinal and Cross Sectional Survey of Rivers and Main Channels. Installation of Rain Gauge and Water Level Gauge	5.technical transfer	Guidance and training on hydrological observation, operation and maintenance methods of equipment and Data filing system.																		
12.EXPENDITURE	<table border="1"> <tbody> <tr> <td>Total</td> <td>366,706 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>344,031</td> </tr> </tbody> </table>	Total	366,706 (¥'000)	Contracted	344,031	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>In 1986 and 1988, East and West Mangahan was seriously inundated for two to three months by the flooding of the lake.</p> <p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②④</p>															
Total	366,706 (¥'000)																				
Contracted	344,031																				

和名 マニラ洪水対策計画

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

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

ASE PHL/S 205A/89

Compiled Mar.1991  
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	13 towns in Panay Island (Malay, Ibañay, Bongay, Kalibo, Ivisan, Pontevedra, Pilar, Sara, Lambunao, Leon, Miagao, Jordan, New Washington)		1.PRESENT STATUS												
2.NAME OF STUDY	Groundwater Development in Panay Island	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>4,960</td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	4,960			2)				<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
(US\$1,000)	Total Cost	Local Cost	Foreign Cost														
1)	4,960																
2)																	
3.SECTOR	Social Infrastructures/Water Resource Development	3.CONTENT(S) OF MAJOR PROJECT(S)	(Description) A feasibility study was subsequently undertaken.														
4.REFERENCE NO.		In respect of 13 selected municipalities in Panay Island, the Study analyzed water resource potentials, and estimated water requirements. The Study formulated water resource development plans, by identifying major water sources and making conceptual designs of necessary facilities for the municipalities.															
5.TYPE OF STUDY	M/P+ (F/S)	1) Malay: Repair of water pipes & rehabilitation of the water supply system. 2) Ibañay: More detailed electric investigation necessary 3) New Washington: Diversion from Kalibo needed to supply water 4) Kalibo: Existing deep well to be used as a pilot well and a new deep well to be bored near Aquan River 5) Bangay: Immediate rehabilitation of existing facilities 6) Ivisan: Detailed surface investigation & horizontal boring needed 7) Pontevedra: Organization of water users' associations and formulation of a development plan 8) Pilar: Detailed surface investigation & horizontal boring needed 9) Sara: Horizontal boring needed to increase water supply 10) Lambunao: Infiltrated water of Urian River to be developed as a water source 11) Leon: Shibaron River to be developed as a water source 12) Miagao: A deep well to be bored near Tomaquboku River 13) Jordan: More detailed investigation necessary															
6.COUNTERPART AGENCY	Local Water Utilities Administration																
7.OBJECTIVES OF STUDY	Assessment of Dependable Yield of Groundwater for Water Supply																
8.DATE OF S/W	Dec.1987																
9.CONSULTANT(S)	Nippon Jogesuido Sekkei Co., Ltd.	4.CONDITIONS AND DEVELOPMENT IMPACTS															
		Conditions: 1) Groundwater is the primary source of water and will be harvested by deep wells, because it will not require water treatment facilities. Where groundwater is not readily accessible, springs, infiltrated river water and other sources will be utilized. 2) Water Districts will be formed in municipalities in accordance with the Provincial Water Act. 3) Generally inadequate financial positions of municipalities require that the development of facilities be financed by the central government subsidies or soft loans.  Development Impacts: Stable and low-cost supply of safe drinking water will contribute to the social stability, improvement of health and reduction of housework related to water supply, and thereby to the increase of productivity.															
10.STUDY TEAM	No. of Members 6 Period Mar.1988-Nov.1989 (20 months)																
<table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>47.51</td> <td>17.05</td> <td>30.46</td> </tr> </tbody> </table>		Total M/M	Japan	Field	47.51	17.05	30.46										
Total M/M	Japan	Field															
47.51	17.05	30.46															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																	
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>269,387 (¥000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>142,350</td> </tr> </tbody> </table>		269,387 (¥000)	Total		Contracted	142,350	5. TECHNICAL TRANSFER		3. PRINCIPAL SOURCE OF INFORMATION							
	269,387 (¥000)																
Total																	
Contracted	142,350																
		Training (including OJT) was provided regarding groundwater resource survey with data analysis and water well construction management.		①													
				2. MAJOR REASONS FOR PRESENT STATUS													
				Not only local municipalities, but also LWUA has insufficient financial capability requires appropriate budgetary arrangement by LWUA													

和名 パナイ島地下水開発計画

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

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

ASE PHL/S 205B/89

Compiled Mar.1991  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	Philippines	1.SITE OR AREA		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled						
2.NAME OF STUDY	Groundwater Development in Panay Island	2.PROJECT COST	Total Cost Local Cost Foreign Cost	(Description) Part of the proposals are being implemented by the Japanese Grant Aid Program.  Jul.1990 E/N signed (Regional Environmental Public Health, 1 billion yen) Aug.1991 E/N signed (Regional Environmental Public Health, 0.65 billion yen)							
3.SECTOR	Social Infrastructures/Water Resource Development	3.CONTENT(S) OF MAJOR PROJECT(S)	1) 4,960 2) 3)								
4.REFERENCE NO.		In respect of 13 selected municipalities in Panay Island, the Study analyzed water resource potentials, and estimated water requirements. The Study formulated water resource development plans, by identifying major water sources and making conceptual designs of necessary facilities for the municipalities. Groundwater is the primary source of water and will be harvested by deep wells, because it will not require water treatment facilities. Where groundwater is not readily accessible, springs, infiltrated river water and other sources are to be utilized. Deep wells: Kalibo, New Washington, Banga and Pontevedra Infiltrated river water: Ibajay, Lambunao, Leon and Miaqao Springs and surface water: Malay, Ivisan, Pilar, Sara and Jordan									
5.TYPE OF STUDY	(M/P)+F/S										
6.COUNTERPART AGENCY	Local Water Utilities Administration										
7.OBJECTIVES OF STUDY	Assessment of Dependable Yield of Groundwater for Water Supply										
8.DATE OF S/W	Dec.1987	Imp. Period:									
9.CONULTANT(S)	Nippon Jogesuido Sekkei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)								
10.STUDY TEAM	No.of Members 6 Period Mar.1988-Nov.1989(20 months)  <table border="1"> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> <tr> <td>47.51</td> <td>17.05</td> <td>30.46</td> </tr> </table>	Total M/M	Japan	Field	47.51	17.05	30.46	Conditions and Development Impacts: 1) After a series of consultations with LUWA, 1995 is set as the target year of the municipal water supply development plans. 2) Regarding those municipalities without water supply facilities, the entire systems will be newly developed. For other municipalities, improvement and remodelling will be proposed after evaluating the conditions and capacities of existing facilities. 3) The Study estimated groundwater potentials which can be tapped and identified necessary basic facilities with conceptual designs. Therefore, more detailed feasibility studies will be necessary before implementation.		2.MAJOR REASONS FOR PRESENT STATUS	
Total M/M	Japan	Field									
47.51	17.05	30.46									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION							
12.EXPENDITURE	Total 269,387 (¥'000) Contracted 142,350	Training (including OJT) was provided regarding groundwater resource survey with data analysis and water well construction management.		①							

和名 パナイ島地下水開発計画

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

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

ASE PHL/A 201A/89

Compiled Mar.1991  
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	Entire Marinduque Main Island, Marinduque Province		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued									
2.NAME OF STUDY	Integrated Agricultural Development Project in Marinduque	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>1)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>US\$1=21.8Peso</td> <td>2)</td> <td>174,300</td> <td></td> <td></td> </tr> </tbody> </table>			(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost	US\$1=21.8Peso	2)	174,300	
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost										
US\$1=21.8Peso	2)	174,300												
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)	(Description) The master plan was approved by the Provincial Government of Marinduque and the Accelerated Development of Agricultural Project (MADPP) was selected for the Japanese Grant Aid Program of FY1991.											
4.REFERENCE NO.		1. Agricultural Development (the entire island of 80,500ha) Farm Technology Development; Farm Management Development; Crop Protection Scheme; Animal Husbandry Development Plan; Agricultural Support Scheme; Marinduque Agricultural Development Promotion Farm (MADPP)												
5.TYPE OF STUDY	M/P+ (F/S)	2. Agricultural Infrastructure Improvement Irrigation Plan 3,810ha; Drainage and Flood Protection 3,690ha; Rural Roads 930km; Village Water Supply 2 places												
6.COUNTERPART AGENCY	Marinduque Provincial Government	3. Rural Infrastructure Improvement Rural Water Supply 7 places; Mini-hydropower Development 4.4GwH; Rural Electrification; Transportation; Education and Welfare; Communications												
7.OBJECTIVES OF STUDY	Establishment of Master Plan on Agricultural Development in Marinduque Island	4. Fishery Development Improvement of Brackish Water Fish Culture Demonstration Farm; Development of Fresh Water Fish culture; Culture Programme of Coconut Crabs												
8.DATE OF S/W	Jul.1988	5. Accelerated Development of Agricultural Project (MADPP) Agricultural Development; Agricultural Infrastructural Development; Rural Infrastructural Development; Aquaculture Development												
9.CONSULTANT(S)	Sanyu Consultants Inc. Chuo Kaihatsu Cor.	4.CONDITIONS AND DEVELOPMENT IMPACTS	2.MAJOR REASONS FOR PRESENT STATUS											
10.STUDY TEAM	No.of Members 10 Period Nov.1988-Nov.1989(13 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>49.00</td> <td>18.13</td> <td>30.87</td> </tr> </tbody> </table>	Total M/M	Japan	Field	49.00	18.13	30.87	Development Benefits: 1) Increase of agricultural production The present farm income of typical farmers will improve from 9,255 pesos to 21,702 pesos. The project will create 44,000 jobs. 2) Reduction of Flood Damages 3) Improvement of rural road networks 4) Improvement of rural water supply 5) Improvement of rural electrification						
Total M/M	Japan	Field												
49.00	18.13	30.87												
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION											
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>202,380 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>151,037</td> </tr> </tbody> </table>		202,380 (¥'000)	Total		Contracted	151,037	Training in Japan (One Official Marinduque Province)	①②					
	202,380 (¥'000)													
Total														
Contracted	151,037													

和名 マリンデュケ農業総合開発計画

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

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

ASE PHL/A 201B/89

Compiled Mar.1991  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																					
1.COUNTRY	Philippines	1.SITE OR AREA	Santa Cruz Area in Marinduque Island																						
2.NAME OF STUDY	Integrated Agricultural Development Project in Marinduque	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>8,196</td> <td></td> <td></td> </tr> <tr> <td>1)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	8,196			1)				2)				3)			
	Total Cost	Local Cost	Foreign Cost																						
(US\$1,000)	8,196																								
1)																									
2)																									
3)																									
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)	<p>The short-term development plan was formulated for Taqum Anqas District as follows.</p> <ol style="list-style-type: none"> <li>1. Agricultural Development <ul style="list-style-type: none"> <li>- Strengthening of Marinduque Agricultural Development and Promotion Farm: 6.5ha</li> <li>- Rehabilitation of the cattle breeding center: 1,500 sq.m</li> <li>- DA municipal nurseries: 0.5ha</li> <li>- Demonstration Farms of paddy and upland crops: irrigated 10ha, rainfed 2ha</li> <li>- Post harvest facilities for rice and corn: storage sheds, dryers, rice mills</li> </ul> </li> <li>2. Agricultural Infrastructure Improvement <ul style="list-style-type: none"> <li>- Irrigation development: area 630ha, canals 25km</li> <li>- Rural Road development: 25km</li> <li>- Village water supply: 1 place, pipelines 25km</li> </ul> </li> <li>3. Rural Infrastructure Improvement <ul style="list-style-type: none"> <li>- Rural electrification</li> <li>- Transportation system development</li> <li>- Improvement of educational facilities</li> </ul> </li> <li>4. Fishery Development <ul style="list-style-type: none"> <li>- Brackish Water Fish Culture Demonstration Farm: 10ha</li> <li>- Prawn hatchery: 360 sq.m</li> <li>- Ice plant: 300 sq.m</li> </ul> </li> </ol>																						
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>17.00</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </tbody> </table>			Feasibility:	EIRR1	17.00	FIRR1)	Yes	EIRR2)		FIRR2)		EIRR3)		FIRR3)								
Feasibility:	EIRR1	17.00	FIRR1)																						
Yes	EIRR2)		FIRR2)																						
	EIRR3)		FIRR3)																						
5.TYPE OF STUDY	(M/P)+F/S	<p>Conditions and Development Impacts:</p> <p>Conditions:</p> <ul style="list-style-type: none"> <li>- Expansion of effective irrigation (no new development)</li> <li>- Improvement of farming technologies</li> <li>- Project life of 30 years</li> </ul> <p>Development Impacts:</p> <ul style="list-style-type: none"> <li>- Paddy production will increase from 829 tons to 3,955 tons.</li> <li>- Improvement of cattle and buffalo breeds and increase of livestock production</li> <li>- Increased traffic, including harvested agricultural produce</li> <li>- Improvement of public health and education standards</li> </ul> <p>Measurable benefits from the project will reach 82.9 million pesos in June-1989 prices in the final year. (agriculture 67.3 million, rural roads 4 million, rural water supply 1.3 million, rural electrification 1.7 million, fisheries 8.6 million)</p>																							
6.COUNTERPART AGENCY	Marinduque Provincial Government	<p>2.MAJOR REASONS FOR PRESENT STATUS</p>																							
7.OBJECTIVES OF STUDY	Pre-F/S study within the priority project areas	<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②</p>																							
8.DATE OF S/W	Jul.1988	<p>5.technical transfer</p> <p>Training in Japan (One Official of Marinduque Province)</p>																							
9.CONSULTANT(S)	Sanyu Consultants Inc. Chuo Kaihatsu Cor.	<p>12.EXPENDITURE</p> <table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>202,380 (Y'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>151,037</td> <td></td> </tr> </tbody> </table>					Total	202,380 (Y'000)	Contracted	151,037															
	Total	202,380 (Y'000)																							
Contracted	151,037																								
10.STUDY TEAM	<p>No.of Members 10</p> <p>Period Nov.1988-Nov.1989(13 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>49.00</td> <td>18.13</td> <td>30.87</td> </tr> </tbody> </table>	Total M/M	Japan	Field	49.00	18.13	30.87	<p>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</p>																	
Total M/M	Japan	Field																							
49.00	18.13	30.87																							

和名 マリンドゥケ農業総合開発計画

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