

PROJECT SUMMARY (M/P)

ASE PHL/S 101/78

Compiled March 1986
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS																						
1. COUNTRY	Philippines	1. SITE OR AREA	Pampanga Province (70km westward from Manila)		1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued																					
2. NAME OF STUDY	Pasig-Potrero River Flood Control and Sabo Project	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=7.4P) Total Cost Local Cost Foreign Cost																							
3. SECTOR	Social Infrastructures/ Water Resource Development	(US\$1,000) 1) 31,820			(Description) 1) One sabo dam was constructed by DPWH. River improvement works in the downstream reach is subsequently under way. 2) The construction works are managed by the domestic budget of the Government of the Philippines.																					
4. REFERENCE NO.		2) 2)																								
5. TYPE OF STUDY	M/P	3. MAJOR PROJECT(S) PROPOSED																								
6. COUNTERPART AGENCY	Bureau of Public Works and Highways (BPWH)	The pasig and Potolero rivers in the western region of Luzon Island causes the flood damage because of the remarkable denudation of mountain region. The project consists of the following sabo works preventing sediment deposit in the river.																								
7. OBJECTIVES OF STUDY	Flood control	<table border="0"> <tr> <td><u>Structure</u></td> <td><u>Scale</u></td> <td></td> </tr> <tr> <td>- Sabo dam</td> <td>10 nos. (height 14-15m, crest length 31-68m)</td> <td></td> </tr> <tr> <td>- Pondage for sediment deposit</td> <td>about 56 ha</td> <td></td> </tr> <tr> <td>- Levee</td> <td>17,220m(new), 2,530m(tentative)</td> <td></td> </tr> <tr> <td>- Ground sill</td> <td>13 nos.</td> <td></td> </tr> <tr> <td>- Groyne</td> <td>349 nos.</td> <td></td> </tr> <tr> <td>- sluice</td> <td>3 nos.</td> <td></td> </tr> </table>		<u>Structure</u>		<u>Scale</u>		- Sabo dam	10 nos. (height 14-15m, crest length 31-68m)		- Pondage for sediment deposit	about 56 ha		- Levee	17,220m(new), 2,530m(tentative)		- Ground sill	13 nos.		- Groyne	349 nos.		- sluice	3 nos.		
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8. DATE OF S/W	Mar. 1977	4. CONDITIONS AND DEVELOPMENT IMPACTS																								
9. CONSULTANT(S)	Nippon Koei, Co., Ltd. CTI Engineering Co., Ltd.	The Project has the following far-reaching effects 1) To mitigate the damage due to flood and sedimentation 2) To increase the agricultural production. 3) To stabilize public welfare 4) To create the chance of employment 5) To transfer the knowledge on sabo works and river improvement works.																								
10. STUDY TEAM	<table border="0"> <tr> <td>No. of Members</td> <td>15</td> </tr> <tr> <td>Period</td> <td>Aug. 1977 - Sep. 1978 (14 months)</td> </tr> <tr> <td>Total M/M</td> <td>42.97</td> </tr> <tr> <td> Japan</td> <td>7.17</td> </tr> <tr> <td> Field</td> <td>35.8</td> </tr> </table>	No. of Members	15	Period	Aug. 1977 - Sep. 1978 (14 months)	Total M/M	42.97	Japan	7.17	Field	35.8			2. MAJOR REASONS FOR PRESENT STATUS												
No. of Members	15																									
Period	Aug. 1977 - Sep. 1978 (14 months)																									
Total M/M	42.97																									
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Field	35.8																									
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER																								
12. EXPENDITURE	<table border="0"> <tr> <td>Total</td> <td>158,282 (Y'000)</td> </tr> <tr> <td>Contracted</td> <td>89,719</td> </tr> </table>	Total	158,282 (Y'000)	Contracted	89,719	1) OJT :		3. PRINCIPAL SOURCES OF INFORMATION																		
Total	158,282 (Y'000)																									
Contracted	89,719																									
				①																						

和名 小水系河川総合開発計画

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

PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Metropolitan Manila (Ayal Ave to R-9, 15km and Edsa to C-5, 8km, totaling 23km in length)			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	C-3 and R-4 and Related Roads Project	2. PROJECT COSTS	(US\$1=8P)			
3. SECTOR	Transportation/ Road		Total Cost	Local Cost	Foreign Cost	(Description) 1978 Nov. OECF E/S loan agreement (296 million yen) 1980 Jun. OECF E/S loan agreement (150 million yen) 1985 May OECF loan agreement (1,429 million yen) - The northern section (7km) of C-3 Road (15km) is under construction. - R-5 road is under construction together with C-5 Road.
4. REFERENCE NO.			1) 116,250	76,375	39,875	
5. TYPE OF STUDY	F/S		2)			
6. COUNTERPART AGENCY	Ministry of Public Highways Department of Public highways (DPH)	3. CONTENTS OF MAJOR PROJECT(S)	3)			
7. OBJECTIVES OF STUDY	Technical and Economical F/S of C-3 and R-4 and its related road in Metro Manila, Philippines	- C-3 Road (15,5km: South Superhighway - Rizal Av. and - Balintawak Interchange) 6 lanes - R-4 Road (C-4 - Juan Luna) with sections overlapping C-5: total length 7.2km, 4 lanes for R-4 and 6 lanes for the rest - In order to ensure social equity in transportation services, it is recommended that the bus lane be introduced to the project.	Implementation Period: 1978 - 1982			
8. DATE OF S/W	Mar. 1977	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
9. CONSULTANT(S)	Japan Overseas Consultants Co., Ltd. and Kokusai Kaihatsu Center	Feasibility: Yes	49.9%			
10. STUDY TEAM	No. of Members 12 Period Mar. 1977 - Mar. 1978 (12 months) Total M/M 65.31 Japan 36.6 Field 28.71	Conditions and Development Impacts: Conditions : 1) Subjected to right of way acquisition. Development Impacts : 1) Completion of the major throughfares in Metropolitan Manila area. 2) Relief of traffic congestion for crossing over the Pasig River Bridge. 3) Substitution effectiveness for circumferential road C-3. 4) Expected to develop as a sub-centre of a metropolis, such as Makati office centre, Kubao commercial center and Mandalyong Industrial Belts and Dagato - Dagatan Resettlements etc.				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHINCAL TRANSFER	Used local consultants efficiently in air photography, soil and material survey and geotechnical survey.			
12. EXPENDITURE	Total 172,920 (¥000) Contracted 159,884				2. MAJOR REASONS FOR PRESENT STATUS 1) Efficient relief of traffic congestion in the Metropolitan area was recognized. 2) This study was given high priority.	
					3. PRINCIPAL SOURCES OF INFORMATION ①	

和名 マニラ首都圏道路計画 (C-3・R-4道路建設計画)

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

PROJECT SUMMARY (F/S)

ASE PHL/S 306/78

Compiled March 1986
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Ilocos, Cagayan			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	Telecommunications Network Project in the Northern Part of Luzon	2. PROJECT COSTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Communications & Broadcasting/ Telecommunication		(US\$1,000) 1) 83,047	2) 30,176	3) 52,871	(Description) 1978 Nov. OECF E/S loan agreement (157 million yen) 1981 Jun. OECF loan agreement (7,600 million yen) 1988 Jan. (5,700 million yen) 1992 Oct. Construction works scheduled to be completed.
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	1) Local exchanges (45), IPTSS (50) 2) Microwave network (20hops, 732knis) 3) VHF system (43), VHF system (30) 4) PCM system (4 sections), Multiplexing equipment (about 3100ch) 5) Trunk cable (about 457km) 6) Local cable (about 640km) 7) Telex exchange (2), Telex concentrator (7), Gentex station (32)			
5. TYPE OF STUDY	F/S	Implementation Period:	Jul. 1980 - 1982			
6. COUNTERPART AGENCY	Bureau of Telecommunications	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
7. OBJECTIVES OF STUDY	Feasibility study of the telecommunications Network Project in the Northern part of Luzon.	Feasibility:	6.31%			
8. DATE OF S/W	Dec. 1977	Conditions and Development Impacts:	Subscriber Toll Dialling Service (STD) is available from Ilocos and Cagayan areas.			
9. CONSULTANT(S)	NTC	5. TECHINCAL TRANSFER	On the Job Training was concluded for the counterpart staff.			
10. STUDY TEAM	No. of Members 13 Period Feb. 1978 - Dec. 1978 (10 months) Total M/M Japan 1.3 Field	12. EXPENDITURE	Total	61,035 (¥'000)		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Contracted	2,356			
		3. PRINCIPAL SOURCES OF INFORMATION	①			
		2. MAJOR REASONS FOR PRESENT STATUS	Effectiveness - large impact - high priority			

和名 ルソン島北部電気通信網建設計画

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

PROJECT SUMMARY (F/S)

ASE PHL/A 303/78

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Wahig-Pamacsaran River Basin of Bohol Island			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Bohol Integrated Agricultural Development Project	2. PROJECT COSTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Agriculture/ General	(US\$1,000)	1) 43,600	2) 18,400	3) 25,200	(Description) This project is under construction by National Irrigation Administration using OECF loan. 1980.6.22 OECF L/A (E/S) 90 million yen 1983.9.9 OECF L/A 4.6 billion yen
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	Water development in Wahig-Pamacsaran River, Irrigation and drainage, Consolidation of farm road and terminal facilities Irrigation area: 5,000ha			
5. TYPE OF STUDY	F/S	Implementation Period:	Aug.1977 - Mar.1978			
6. COUNTERPART AGENCY	NIA (National Irrigation Administration) and two others	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
7. OBJECTIVES OF STUDY		Feasibility:	Yes			
8. DATE OF S/W	Mar.1977	Conditions and Development Impacts:	Conditions: 1.To increase agricultural production 2.To improve living environment 3.To create employment opportunities for people around the project district Development Impacts: 1.Increase of agricultural production by introduction of irrigation system 2.Contribution to self-sufficiency of the staple food 3.Increase of employment 4.correction of imbalanced income distribution 5.Alleviation of energy restriction 6.Improvement of traffic network 7.Dissemination of agricultural technology			
9. CONSULTANT(S)	Sanyu Consultants Inc	5. TECHNICAL TRANSFER				
10. STUDY TEAM	No. of Members 13 Period Aug.1977 - Nov.1977 (3 months) Total M/M Japan Field	2. MAJOR REASONS FOR PRESENT STATUS				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		3. PRINCIPAL SOURCES OF INFORMATION	①			
12. EXPENDITURE	Total 122,815 (¥000) Contracted 111,856					

和名 ボホール農業総合開発計画

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

PROJECT SUMMARY (M/P)

ASE PHL/S 102/79

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Bohol Province (4,120 sq.km, pop.0.76 million)		1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Bohol Integrated Area Development Project	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	
3. SECTOR	Development Plan/ Integrated Regional Development Plan	(US\$1,000)	1) 549,300		
4. REFERENCE NO.		2)			
5. TYPE OF STUDY	M/P	3. MAJOR PROJECT(S) PROPOSED	The study formulated the area development plan with central focus on the irrigation development project in the Wahig-Pamacsalan River basin (the F/S conducted by JICA). Major proposals are as follows.		
6. COUNTERPART AGENCY	National Council on Integrated Area Development (NACIAD)	1) Water resource development:	- Wahig-Pamacsalan irrigation development - Tagbilaran pumping station		
7. OBJECTIVES OF STUDY	Formulation of a area development plan centering on the Wahig-Pamacsalan River basin	2) Agriculture:	- Establishment of a center for soil technology development and agricultural promotion - Establishment of a Wahig-Pamacsalan pilot farm - Development of the livestock sector		
8. DATE OF S/W	Aug. 1978	3) Fisheries:	- Establishment of a fish processing base at the port of Cogtong		
9. CONSULTANT(S)	Pacific Consultants International and Mitsubishi Research Institute, Inc.	4) Forestry:			
10. STUDY TEAM	No. of Members 14 Period Jun.1979 - Feb.1980 (8 months) Total M/M Japan Field	4. CONDITIONS AND DEVELOPMENT IMPACTS	Bohol Province is one of the underdeveloped provinces included in the Central Visayas (or Region VII). The integrated area development will contribute to the narrowing of regional income disparities through strengthening the inter-sector linkages in development. Major development impacts are (1) increase of income, (2) creation of employment, (3) creation of demands, etc.		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHINCAL TRANSFER	OJT for the counterparts and participation of the counterparts in the JICA training program		
12. EXPENDITURE	Total 96,994 (¥000) Contracted 85,175		2. MAJOR REASONS FOR PRESENT STATUS		
			3. PRINCIPAL SOURCES OF INFORMATION		
			①		

和名 ボホール州総合開発計画

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

PROJECT SUMMARY (F/S)

ASE PHL/S 307/79

Compiled March 1986
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Ilocos and Cagayan Valley Provinces			1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Hospital Development Project	2. PROJECT COSTS	(US\$1=7.415P)			
3. SECTOR	Social Infrastructures/ Architecture & Housing		Total Cost	Local Cost	Foreign Cost	(Description) Cancelled after the completion of the study. There is no schedule for the further development of the project.
4. REFERENCE NO.		(US\$1,000)	1) 128,388	2) 128,388	3)	
5. TYPE OF STUDY	F/S	3. CONTENTS OF MAJOR PROJECT(S)				
6. COUNTERPART AGENCY	Ministry of Health	1) Medical centers: 4 locations, 900 beds 2) Regional hospitals: 2 locations, 500 beds 3) Provincial hospitals: 13 locations, 1,500 beds				
7. OBJECTIVES OF STUDY		Implementation Period: 6 years				
8. DATE OF S/W	Dec. 1978	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
9. CONSULTANT(S)	Nihon Sekkei, Inc.	Feasibility: Yes				
10. STUDY TEAM	No. of Members 15 Period Mar. 1979 - Feb. 1980 (11 months) Total M/M 30.32 Japan 20.26 Field 10.06	Conditions and Development Impacts: Conditions: 1) Containment of communicative diseases. 2) Old buildings to be renovated as wards and new diagnostic and treatment facilities to be added. 3) Improvement of water supply and drainage systems. 4) Power generation to maintain the minimum basic functions in case of power failures. Development impacts: - Increased supply of healthy labor force - Creation of medical employment - Promotion of local medical industries				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				
12. EXPENDITURE	Total 82,114 (¥000) Contracted 76,174	3. PRINCIPAL SOURCES OF INFORMATION				
		①				
		2. MAJOR REASONS FOR PRESENT STATUS				
		Lack of funds.				

和名 病院整備計画

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

PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Metro Manila area, in the Central west zone of Luzon Island			1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Manila-Bataan Coastal Road and its Related Roads	2. PROJECT COSTS	(US\$1=215Yen)			
3. SECTOR	Transportation/ Road		Total Cost	Local Cost	Foreign Cost	(Description) 1) The reclamation component will take time to mature because the Cavite reclamation area is not creating enough demand. 2) During 1987, three German contractors offered the turn-key implementation, but the offer was turned down by the Philippine authorities. The NEDA coordinated with DPWH and formulated the Implementation Program I to apply for yen credit, but the application fell through. 3) the Philippine authorities is preparing a new application for yen credit by reducing the scale of the project.
4. REFERENCE NO.		(US\$1,000)	1) 297,000	2) 99,000	3)	
5. TYPE OF STUDY	F/S	3. CONTENTS OF MAJOR PROJECT(S)				
6. COUNTERPART AGENCY	Ministry of Public Highways	Description		Scale		
7. OBJECTIVES OF STUDY	Road plan	Construction of new Harbour Road		7.0km		
8. DATE OF S/W	Aug. 1978	Construction of new C-5 Road		8.6km		
9. CONSULTANT(S)	Pacific Consultants International	Reclamation and social infrastructure facilities		900ha		
10. STUDY TEAM	No. of Members 13 Period Jan. 1979 - Mar. 1980 (14 months) Total M/M Japan 9.9 Field 48.27	Flyovers and repavement		5 sites & 15.6km		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Implementation Period: 1981 - 1987				
12. EXPENDITURE	Total 168,421 (¥000) Contracted 164,825	4. FEASIBILITY AND ITS ASSUMPTIONS		EIRR 22.6%	FIRR 60%	
		Feasibility: Yes				
		Conditions and Development Impacts: The project consists of 2 components: Road and Reclamation. The value of EIRR/FIRR was calculated from both projects. Condition: 1) Existing price mechanism does not change when general price increases as price of petroleum products go up. 2) Existing mode of public transportation service does not change. Development impact: 1) Formulation of well-organized city function in suburban area as well as expansion of urban area. 2) Expansion of new industrial/commercial district as a result of superiority of commercial location. 3) Promotion of regional development through industrial district.				
		5. TECHNICAL TRANSFER			2. MAJOR REASONS FOR PRESENT STATUS	
		1) Overseas training 2) Report writing with counterpart staff			3. PRINCIPAL SOURCES OF INFORMATION ①	

和名 マニラ・バターン道路およびC-5、C-6道路建設計画

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

PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Ilocos Norte Province in northwest end of Luzon Island			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Ilocos Norte Irrigation Project : Phase II	2. PROJECT COSTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Agriculture/ General	(US\$1,000)	1) 42,000	2) 22,000	3) 20,000	(Description) 1981.6.16 OECF L/A ¥5 billion 1980.6.20 OECF L/A (E/S) ¥70 million OECF loan was made for the project Phase I, and detail design (July 1980-July 1981) and S/V (Apr.1982-Dec.1983) were completed. Pilot project of irrigation end facilities construction was implemented between 1981 and 1982 by Japanese grant aid. Flood control task of this project will start in March 1991 by OECF loan.
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	Phase I Irrigation area 10,200 ha Diversion Weir 5 places Irrigation canal 200 km Drainage canal 150 km Phase II			
5. TYPE OF STUDY	F/S	Note:	Cost 1) above is for Phase I. Period 1) below is for Phase I and 2) is for Phase II.			
6. COUNTERPART AGENCY	National Irrigation Administration	Implementation Period:	1980 - 1984 1982 - 1987			
7. OBJECTIVES OF STUDY		4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
8. DATE OF S/W	Nov.1975	Feasibility:	1) 13.2%		2) 14.0%	
9. CONSULTANT(S)	Sanyu Consultants, Inc.	Conditions and Development Impacts:	Development Impacts: This will lead to the creation of agricultural benefit by the increase of agricultural productivity arisen from stable supply of irrigation water through building agricultural water facilities, and the increase of farmers' income *EIRR 1) is for Phase I and 2) is for Phase II.			
10. STUDY TEAM	No. of Members 16 Period Aug.1978 - Dec.1980 (17 months) Total M/M 96.92 Japan 37.18 Field 59.74	5. TECHINCAL TRANSFER	Survey method and development planning method in each sector were transferred to counterparts assigned during the period of the survey			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total	328,554 (¥'000)		
		Contracted	290,172			
			①			
			2. MAJOR REASONS FOR PRESENT STATUS			
			3. PRINCIPAL SOURCES OF INFORMATION			

和名 イロコスノルテかんがい計画

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

PROJECT SUMMARY (M/P)

ASE PHL/S 104/81

Compiled March 1986
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Davao in Mindanao	1. PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Davao City Urban Transport cum Land Use	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 2)		
3. SECTOR	Transportation/ Urban Transportation	3. MAJOR PROJECT(S) PROPOSED	1) Regional development 7 industrial estates; 6 commercial centers; 2 educational urban centers; 1 administrative center; 2 port expansion 2) Road 25 new trunk road sections; 40 improvement sections 3) Public transportation introduction of bus transport 4) Traffic control improvement of interchanges; signals; exclusive bus lanes	(Description) Part of the recommendation on public transportation (e.g. improvement of jeepney transportation) was implemented, but the utilization of the entire plan has not been realized.	
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	The proposed plan will contribute to the alleviation of the existing transportation problems and to the planning on land use, public transportation, road network development and traffic control to meet the future demand.		
5. TYPE OF STUDY	M/P	5. TECHNICAL TRANSFER	1) OJT on transport planning 2) Participation of counterparts in JICA training program 3) Employment of local consultants		
6. COUNTERPART AGENCY	Ministry of Public Works and Highways	2. MAJOR REASONS FOR PRESENT STATUS			
7. OBJECTIVES OF STUDY	Formulation of a land use plan and a transportation master plan through 2000	3. PRINCIPAL SOURCES OF INFORMATION	①		
8. DATE OF S/W	Mar. 1979				
9. CONSULTANT(S)	Nippon Engineering Consultants Co. and Nippon Koei Co				
10. STUDY TEAM	No. of Members 17 Period Jun. 1979 - Dec. 1981 (30 months) Total M/M 136.93 Japan 17.33 Field 119.60				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic maps (scale: 1/10,000 and 1/5,000)				
12. EXPENDITURE	Total 326,652 (Y'000) Contracted 323,320				

和名 ダバオ都市交通計画

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

PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Panpanga River Basin (0.32 million ha) in Luzon			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	Pampanga Delta Development Project	2. PROJECT COSTS	(US\$1=8.2pesos)			
3. SECTOR	Social Infrastructures/ River & Erosion Control		Total Cost	Local Cost	Foreign Cost	(Description) May 1986 OECF E/S loan agreement (705 million yen) Oct.1987-Apr.1989 Detailed Design Jun.1989 OECF Appraisal for Flood Control Component (F/C) Dec.1989 OECF loan agreement for F/C Mar.1991 Commencement of Implementation of F/C (~1996) Jul.1990 OECF Appraisal for Irrigation Component (I/C) Jul.1991 OECF loan agreement for I/C (Feb.1992) Commencement of Implementation of I/C (~1998)
4. REFERENCE NO.		(US\$1,000)	1) 182,666	102,666	80,000	
5. TYPE OF STUDY	F/S		2) 84,000	49,333	33,333	
6. COUNTERPART AGENCY	Ministry of Public Works and Highways and National Irrigation Administration	3. CONTENTS OF MAJOR PROJECT(S)	3)			
7. OBJECTIVES OF STUDY	Review of the master plan and feasibility analysis of priority projects	1) Flood control -River channel improvement (78.7 km) -Revetment (88.1 km) 2) Irrigation development -1 weir, irrigable area of 11,000 ha -Main canals 37 km, secondary and tertiary canals 145 km	Implementation Period: 1) 10 years 2) 7 years			
8. DATE OF S/W	May 1980	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Nikken Consultants, Inc.	Feasibility: Yes	1) 10.8%	2) 15.4%		
10. STUDY TEAM	No. of Members 20 Period Jul.1980 - Feb.1982 (7 months) Total M/M 107.48 Japan 45.94 Field 61.54	Conditions and Development Impacts: 1) The land area of 19,000 ha and 13,400 buildings will be protected from floods by the flood control project, and annual rice production will increase by 15,000 tons and annual fishery production by 2,400 tons. 2) Rice production will be increased by 47,000 tons by irrigation development. Farmers' income will increase from four to six times.				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic mapping	5. TECHNICAL TRANSFER	(1) Technical meetings and transfer of knowledge through monthly meetings (2) Trainees: Four trainees visited Japan (3) Working with counterparts was conducted for field surveys, design works, cost estimates and so on			
12. EXPENDITURE	Total 435,309 (¥000) Contracted 267,522				2. MAJOR REASONS FOR PRESENT STATUS	
					3. PRINCIPAL SOURCES OF INFORMATION	

和名 パンパンガデルタ開発計画

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

PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Luzon, Mindoro, Lubang, Palawan, Panai, Tablas, Romblon			1. PRESENT STATUS
2. NAME OF STUDY	Rural Telecommunications Project in Regions III (Central Luzon) and IV (Southern Tagalog)	2. PROJECT COSTS	(US\$1=215Yen=28.3P)			
3. SECTOR	Communications & Broadcasting/ Telecommunication		Total Cost	Local Cost	Foreign Cost	<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
4. REFERENCE NO.			1) 82,670	2) 8,470	3) 74,200	
5. TYPE OF STUDY	F/S	3. CONTENTS OF MAJOR PROJECT(S)	- Telephone Installation Plan 13,720 - SHF system 11spans 581.7km, - UHF/VHF system 144spans, - Telex exchanges 2, - Telex concentrator 14, - Telex and gentex equipment 122, - Trunk cable length 191.7km, - Local cable length 371km, - Buildings (Radio station, Telephone Office etc.) - Access roads 88.2km			(Description)
6. COUNTERPART AGENCY	Bureau of Telecommunications	Implementation Period:	1982 - 1986			
7. OBJECTIVES OF STUDY	To determine the feasibility of the Rural Telecommunications Project in Regions III and IV.	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		2. MAJOR REASONS FOR PRESENT STATUS
8. DATE OF S/W	Apr. 1980	Feasibility: Yes	6.88%		(1) Effectiveness (2) High priority	
9. CONSULTANT(S)	NTC	Conditions and Development Impacts:	(1) To rehabilitate the existing old telecommunicating facilities at the objected areas. (2) To improve the telecommunications services at the objected areas.			3. PRINCIPAL SOURCES OF INFORMATION
10. STUDY TEAM	No. of Members 13 Period Mar. 1981 - Mar. 1982 (12 months) Total M/M 10,27 Japan 5,17 Field 5,10	5. TECHNICAL TRANSFER	(1) Trainee acceptance; 2 counterparts invited to Japan (2) On-the-Job-Training for counterparts			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total	46,007 (¥'000)		
		Contracted	15,139			

PROJECT SUMMARY (M/P + F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Laoag district (Ilocos Norte Province), Legaspi City and Daraga Municipality (Albay Province), Tagbilaran City (Bohol 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	Local Water Supply Projects	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS (US\$1=7.80P)	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Public Utilities/ Water Supply	(US\$1,000)	1) 15,830	6,570		(Description) Followed by F/S.
4. REFERENCE NO.		2)				
5. TYPE OF STUDY	M/P+(F/S)	3. MAJOR PROJECT(S) PROPOSED				
6. COUNTERPART AGENCY	Local Water Utilities Administration	This project is to make master plan with the target year of 2010, in order to improve and expand the existing water supply facilities in four districts. Project implementation has been divided into three phases based on the master plan. First phase, target year of 1987, is to improve the existing facilities and to enlarge the distribution pipelines. Second phase, target year of 1993, is to expand the system including the development of new water sources.				
7. OBJECTIVES OF STUDY	Planning on the water supply expansion plan up to the year 2010 and selection of emergency project	Phase (Target year)	Served Population	Water Demand (cu. m/day)	Facilities	
8. DATE OF S/W	Mar. 1981	Basis (1982)	76,500	14,800		
9. CONSULTANT(S)	Nihon Suido Consultants Co., Ltd.	Phase-1 (1987)	116,760	28,933	Improvement of existing facilities Expansion of distribution pipelines	
10. STUDY TEAM	No. of Members 9 Period Jun. 1981 - Jun. 1982 (12 months)	Phase-2 (1993)	206,690	45,608	Expansion of water facilities including new water resources	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Phase-3 (2010)	358,811	71,231	More expansion of Phase-2	
12. EXPENDITURE	Total 182,931 (¥000) Contracted 180,464	4. CONDITIONS AND DEVELOPMENT IMPACTS				
		As development impacts, increase of service area and served population, safe, continuous and stable water supply, improvement of environment hygiene, decrease of fire injury, increase of land price and expansion of employment opportunity, are expected.				
		5. TECHINICAL 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 at project site.				
		2. MAJOR REASONS FOR PRESENT STATUS				
		Provision of water supply is an essential infrastructure for improving environment and sanitation condition in the respective four cities, as they have been developing as the center of the regions.				
		3. PRINCIPAL SOURCES OF INFORMATION				
		①				

PROJECT SUMMARY (M/P + F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Laoag district (Ilocos Norte Province), Legaspi City and Daraga Town (Albay Province), Tagbilaran City (Bohol Province)		
2. NAME OF STUDY	Local Water Supply Projects	2. PROJECT COSTS	(US\$1=7.80P)		
3. SECTOR	Public Utilities/ Water Supply		Total Cost	Local Cost	Foreign Cost
4. REFERENCE NO.			1) 15,830	6,570	
5. TYPE OF STUDY	(M/P)+F/S		2)		
6. COUNTERPART AGENCY	Local Water Utilities Administration		3)		
7. OBJECTIVES OF STUDY	F/S of the emergency project based on the master plan	3. CONTENTS OF MAJOR PROJECT(S)	<ul style="list-style-type: none"> - Laoag area : water intake conduits, deep wells, transmission and distribution pipes, etc. (4,130 cu.m/day) - Legaspi area : spring water, transmission and distribution pipes, etc. (6,480 cu.m/day) - Daraga town : spring water, transmission and distribution pipes, etc. (4,320 cu.m/day) - Tagbilaran city : deep wells, distribution reservoirs, distribution pipes, etc. (1,700 cu.m/day) - Total water quantity: 16,630 cu.m/day (Planned development quantity) 		
8. DATE OF S/W	Mar.1981	Implementation Period:	Jan.1984 - Dec.1986		
9. CONSULTANT(S)	Nihon Suido Consultants Co., Ltd.	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	
10. STUDY TEAM	No. of Members 9 Period Jun.1981 - Jun.1982 (12 months) Total M/M 79.95 Japan 34.72 Field 45.23	Feasibility: Yes	11.0%		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts: Master plan on the water supply system for the target year of 2010 has been established, which was divided into three phases. Technical and financial feasibilities for first phase for the target year of 1987 has been examined. As 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 price and expansion of employment opportunity will be foreseen.			
12. EXPENDITURE	Total 182,931 (¥'000) Contracted 180,464	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.		
		1. PRESENT STATUS		<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing	
		(Description)		<p>After Marcos Regime fell, the contents of this project have been changed drastically. Only the daoag area (Ilocos Prov.) was selected from the project and grouped with two other cities to apply for OECF finance. 1987 Dec. OECF loan agreement on water supply development in regional cities (891 million yen) 1990 May D/D was completed and construction works started. 1991 Dec. Construction is under way.</p>	
		2. MAJOR REASONS FOR PRESENT STATUS		The scope of the project was reviewed and modified by the present administration after Marcos Regime fell. It is not confirmed the reason why the scope was changed.	
		3. PRINCIPAL SOURCES OF INFORMATION		①	

PROJECT SUMMARY (M/P + F/S)

ASE PHL/S 201A /82

Compiled March 1986
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	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. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=7.95P) Total Cost Local Cost Foreign Cost			
3. SECTOR	Transportation/ Port	(US\$1,000)	1) 12,941	4,167	8,774	(Description) Followed by F/S.
4. REFERENCE NO.		2)				
5. TYPE OF STUDY	M/P+(F/S)	3. MAJOR PROJECT(S) PROPOSED	Main projects (Target year 2000): - 2 berths for foreign trade (-10m, 15,000dwt) (New construction) - 3 berths for domestic trade (-7.5m, -5.5m) (New construction) -1 Container berth for domestic trade (-7.5m) (New construction) -Construction of sheds, warehouses, fishing ports			
6. COUNTERPART AGENCY	The Philippine Ports Authority (PPA)	4. CONDITIONS AND DEVELOPMENT IMPACTS	Development of this port in short-term plan will increase the employment opportunity and the income through the development of the Cagayan Valley where agriculture and forestry are main industry. In long-term plan development of this port will strengthen the basis of industry in this region and contribute to the development of sea transportation system in the Philippines.			
7. OBJECTIVES OF STUDY	Preparation of Master Plan (Target year 2000) and Short-term Development Plan (Target year 1987)	5. TECHNICAL TRANSFER	1) On the job training to counterpart 2) Counterpart training 3) Preparation of report by cooperation with counterpart 4) Use the local consultant for oceanographic survey and boring 5) Donation of machinery and instruction of its use.			
8. DATE OF S/W	Feb.1981	9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan			
10. STUDY TEAM	No. of Members 9 Period May 1981 - Mar.1982 (11 months) Total M/M 46.98 Japan 35.10 Field 11.88	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological and oceanographic survey			
12. EXPENDITURE	Total 135,996 (¥'000) Contracted 101,988	12. EXPENDITURE				
			2. MAJOR REASONS FOR PRESENT STATUS			
			3. PRINCIPAL SOURCES OF INFORMATION ①			

和名 アイリーン港整備計画

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

PROJECT SUMMARY (F/S)

ASE PHIL/S 311/82

Compiled March 1986
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Dalton Pass, Nueva Vizcaya			1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Dalton Pass Tunnel Project	2. PROJECT COSTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Transportation/ Road	(US\$1,000)	1) 2) 3)			(Description) As a sole project, the required investment cost is too high. The priority is not given by the Government. 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. The existing road was seriously affected by the earthquake in 1990, and the Philippine Government is currently evaluating whether the road should be rehabilitated or the alternative road should be constructed.
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	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.			
5. TYPE OF STUDY	F/S	Implementation Period:	1983 - 1990			
6. COUNTERPART AGENCY	Ministry of Public Highways	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
7. OBJECTIVES OF STUDY	Construction of Tunnel and Planning of Road Disaster Prevention	Feasibility:	Yes			
8. DATE OF S/W	Feb. 1981	Conditions and Development Impacts:	As an assumption, the forecasted daily traffic in 2015 should be 7910 vehicles per day and a ventilation of jet-fan type, which will be at the first stage applied, shall be changed to the shaft type. The electric power for tunnel facilities shall be secured from the Gabat Substation which would be completed in 1982. The development benefits involve : to ensure the traffic in the Dalto 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.			
9. CONSULTANT(S)	Katahira & Engineers	5. TECHINCAL TRANSFER	OJT to counterparts on traffic survey and data analysis.			
10. STUDY TEAM	No. of Members 11 Period May 1981 - Mar. 1982 (10 months) Total M/M 68.76 Japan 13.93 Field 54.83	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geotechnical Investigations Traffic surveys including OD surveys			
12. EXPENDITURE	Total 217,540 (¥'000) Contracted 215,452	3. PRINCIPAL SOURCES OF INFORMATION	①			
		2. MAJOR REASONS FOR PRESENT STATUS	Judging the present economical development, the implementation of a big project seems to be unrealistic within the limited financial budget of the Ministry in charge.			

和名 ダルトン・パス・トンネル計画

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

PROJECT SUMMARY (F/S)

ASE PHL/S 312/82

Compiled March 1986
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Southern area of Manila Metropolitan zone including Las Pinas Paranaque and Muntinlupa			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	Metro Manila Outer Major Roads Project (Southern Package)	2. PROJECT COSTS (US\$1=225Yen)	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Transportation/ Road		1) 92,200	2) 63,000	3)	(Description) 1. Detailed Design Work of Paranaque-Sucacat Widening was completed (Feb.1988) -DPWH's own fund 2. Detailed Design for Zapoto-Alabang road widening was completed by World Bank finance. 3. Taguig-Las Pinass-Muntinlupa road - F/S review was conducted in April - August 1986 - As a result of F/S review, the route was altered to Taguig-Paranaque road (length:12.9km), which is called Southern Section of C-5. - The 14th OECF Loan (4,800 million yen, approved in January 1988) included this southern section. D/D is currently under way.
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	-Improvement of roads, 17.8km (1) Paranaque to Sucat Road (7.5km) for expansion 2 lanes to 6 lanes (2) Zapote to Alabang Road (10km) for expansion 2 lanes to 4 lanes -New road construction, 20.7km Taguig-Las Pinas - Muntinlupa Road			
5. TYPE OF STUDY	F/S	Implementation Period:	1985 - 1994			
6. COUNTERPART AGENCY	Department of Public works and Highways	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
7. OBJECTIVES OF STUDY	Road Planning	Feasibility:	Yes			
8. DATE OF S/W	Dec.1980	Conditions and Development Impacts:	The project aimed to improve road network in the southern part of Metro Manila, and feasibility study was conducted for three (3) roads: Paranaque-Sucaf Road (existing): 7.5km, Zapote-Alabang Road (existing): 10.3km, Taguig-Las Pinass-Muntinlupa Road (new construction), Total length is 38.5km. 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.			
9. CONSULTANT(S)	Pacific Consultants International	5. TECHNICAL TRANSFER	OJT and JICA training program for counterparts			
10. STUDY TEAM	No. of Members 12 Period Mar.1981 - Mar.1982 (13 months) Total M/M 69.03 Japan 9.86 Field 59.17	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey, soil survey, Analysis of samples			
12. EXPENDITURE	Total 171,819 (¥000) Contracted 166,210	12. MAJOR REASONS FOR PRESENT STATUS	Paranaque-Sucacat Road: Since this was considered very urgent, DPWH started by its own fund Other roads: For administrative and economical reasons, DPWH is expecting loan form OECF or IBRD			
		13. PRINCIPAL SOURCES OF INFORMATION	①			

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 March 1990
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	The north-east District of Luzon island Pangasinan province, Mabini		
2. NAME OF STUDY	Mabini Agricultural Development Project	2. PROJECT COSTS	US\$1=8Ps Total Cost Local Cost Foreign Cost 1) 127,129 55,698 71,431 (US\$1,000) 2) 3)		
3. SECTOR	Agriculture/ General	3. CONTENTS 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.		Implementation Period:	1983 - 1988		
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	
6. COUNTERPART AGENCY	National Irrigation Administration (NIA)	Feasibility:	Yes		
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	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		
8. DATE OF S/W	Feb.1981	5. TECHINCAL TRANSFER	1.OJT 2.Acceptance of Trainees (2 persons)		
9. CONSULTANT(S)	Japan Engineering Consultants Co.,Ltd. Nippon Suiko Consultants	12. EXPENDITURE	Total 106,975 (¥000) Contracted 99,241		
10. STUDY TEAM	No. of Members 15 Period Sep.1981 - Mar.1982 (7 months) Total M/M 44.96 Japan 15.17 Field 29.79	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY			
		1. PRESENT STATUS		<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing	
		(Description)		The Government of Philippines has not requested this project since the termination of this study.	
		2. MAJOR REASONS FOR PRESENT STATUS		Adjustment of project priority in the government from Marcos regime to Akino regime.	
		3. PRINCIPAL SOURCES OF INFORMATION		①	

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 March 1990
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Maragondon, Cavite Province, Luzon Island (Area 13,000ha)			1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Alcogas Project	2. PROJECT COSTS	US\$1=8P Total Cost Local Cost Foreign Cost 1) 23,290 12,890 10,400 (US\$1,000) 2) 3)			
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.			(Description) The Government of the Philippines has suspended implementation of this project because of fall in the price of crude oil.
4. REFERENCE NO.		Implementation Period:	Jan.1981 - May.1986			
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
6. COUNTERPART AGENCY	Philippine National Alcohol Commission (PNAC)	Feasibility:	Yes			
7. OBJECTIVES OF STUDY	To clarify the feasibility on the agricultural and industrial development plan of raw materials and alcohol production	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.			
8. DATE OF S/W	Dec.1980	5. TECHINCAL TRANSFER	Technology transfer to counterparts in the course of the study.			
9. CONSULTANT(S)	Nippon Koei Co.,Ltd. Chuo Kaihastu Corporation Other	12. EXPENDITURE	Total	139,123 (¥000)		
10. STUDY TEAM	No. of Members 11 Period Mar.1980 - Mar.1982 (26 months) Sep.1981 - Nov.1981 (3 months) Total M/M 32.00 Japan 10.00 Field 22.00		Contracted	101,171		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		3. PRINCIPAL SOURCES OF INFORMATION	①			
		2. MAJOR REASONS FOR PRESENT STATUS				

和名 アルコガス計画

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

PROJECT SUMMARY (Basic Study)

ASE PHL/S 501/82

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Northern part of Luzon Island (from Ilagan of Isabela Prov. to Aparri of Cagayan Prov.; 11,000 sq.km)			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Topographic Mapping Project for Cagayan Valley	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Social Infrastructures/ Survey & Mapping	(US\$1,000) 1) 2)	3. MAJOR PROJECT(S) PROPOSED			(Description)
4. REFERENCE NO.		1st year: aerophotos (1/30,000, 15,000 sq.km) 2nd year: datum points surveyed 3rd year: aero-triangulation and orthoscopic photos 4th year: aero-triangulation, topographic original maps, ortho-photo maps 5th year: topographic maps (1/25,000, 72 plates)				
5. TYPE OF STUDY	Basic Study	4. CONDITIONS AND DEVELOPMENT IMPACTS				
6. COUNTERPART AGENCY	Ministry of Defense, Dept.of Coastal Survey	5. TECHINCAL TRANSFER				
7. OBJECTIVES OF STUDY		6. MAJOR REASONS FOR PRESENT STATUS				
8. DATE OF S/W	Mar.1978	7. PRINCIPAL SOURCES OF INFORMATION				
9. CONSULTANT(S)	International Engineering Consultants Association	①				
10. STUDY TEAM	No. of Members 19 Period Feb.1979 - Feb.1983 (48 months) Total M/M Japan Field					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY						
12. EXPENDITURE	Total 931,676 (¥'000) Contracted 803,651					

和名 カガヤンバレー地区地図作成

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

PROJECT SUMMARY (F/S)

ASE PHL/S 313/83

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	C-5, C-6, Mindanao Av. and Visayas Road in Metro Manila			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Metro Manila Outer Major Roads Project (Northern Package)	2. PROJECT COSTS	(US\$1=14.0 pesos)			
3. SECTOR	Transportation/ Road		Total Cost	Local Cost	Foreign Cost	(Description) 1988 Jan. Included in OECF E/S package loan agreement (2,000 million yen) 1990 Nov. D/D on C-5 Road being implemented
4. REFERENCE NO.		(US\$1,000)	1) 77,697	44,214	33,482	
5. TYPE OF STUDY	F/S	2)				
6. COUNTERPART AGENCY	Ministry of Public Works and Highways	3)				
7. OBJECTIVES OF STUDY	To evaluate the feasibility of the outer major roads in economic, financial and technical aspects	3. CONTENTS OF MAJOR PROJECT(S)	Increase of lanes to alleviate traffic congestions 1984 - 1990 32 lanes 1993 - 1996 48 lanes			
8. DATE OF S/W	Feb. 1982	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
9. CONSULTANT(S)	Nippon Engineering Consultants.		46.3%			
10. STUDY TEAM	No. of Members 10 Period Jun. 1982 - Jun. 1983 (12 months) Total M/M Japan Field	Implementation Period:	1984 - 1996			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				
12. EXPENDITURE	Total 161,996 (¥000) Contracted 156,087					
			2. MAJOR REASONS FOR PRESENT STATUS			
			3. PRINCIPAL SOURCES 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 March 1990
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	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="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Matuno River Development Project	2. PROJECT COSTS	US\$1=240Yen in 1983 Total Cost Local Cost Foreign Cost 1) 424,067 166,015 258,052 (US\$1,000) 2) 3)		
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) Irrigation and hydropower development projects have been largely suspended in the Philippines due to worsened financial status of government. With the economic upturn later on, movement emerged to promote implementation of the project. However, under the latest worsening economic condition, the recent progress of the projects is not known.
4. REFERENCE NO.		Implementation Period:	1984 - 1996		
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 18.5%		
6. COUNTERPART AGENCY	National Irrigation Authority National Power Corporation	Feasibility:			
7. OBJECTIVES OF STUDY	Combined irrigation and hydropower development on Matuno river	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		
8. DATE OF S/W	Oct. 1981	5. TECHINICAL TRANSFER	1. Training in Japan 2. OJT		
9. CONSULTANT(S)	Chuo Kaihastu Corporation Tamano Consultants Hokkaido Development Consultants	12. EXPENDITURE	Total 302,187 (¥'000) Contracted 287,093		
10. STUDY TEAM	No. of Members 17 Period Jan. 1982 - Feb. 1984 (26 months) Total M/M 101.93 Japan 36.23 Field 65.70	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		2. MAJOR REASONS FOR PRESENT STATUS			
12. EXPENDITURE		3. PRINCIPAL SOURCES OF INFORMATION	①		

和名 マツノ川開発計画

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

PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Upper Pampanga River Basin in Central Luzon (Nueva Ecija & Bulacan Provinces)		
2. NAME OF STUDY	Improvement Project of the Operation & Maintenance of National Irrigation Systems (UPRIIS)	2. PROJECT COSTS	US\$1=11P Total Cost Local Cost Foreign Cost 1) 83,290 32,918 50,372 (US\$1,000) 2) 3)		
3. SECTOR	Agriculture/ General	3. CONTENTS 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		
4. REFERENCE NO.		Implementation Period:	Jan. 1985 - Jun. 1994		
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	
6. COUNTERPART AGENCY	National Irrigation Administration	Feasibility:	Yes		
7. OBJECTIVES OF STUDY	To identify the constraints of the existing irrigation system, and to propose the improvement/rehabilitation plans	Conditions and Development Impacts:	Condition: Project benefits are comprised of irrigation benefit, flood control benefit and reduction of personnel expenses for operation and management of the project. Irrigation benefits are expected to be the increment of paddy between without and with project conditions. Flood control benefits are the expected reduction of flood damages for crops, private property, public facilities and indirect losses. Reduction of personnel expenses will be expected by the introduction of the monitoring system, strengthening work load of field staff, etc.		
8. DATE OF S/W	Jul. 1982	Project Impacts:	1. Increase of rice production 2. Increase of employment opportunity 3. Increase of farmer's income 4. Decrease of flood damage		
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Nippon Giken Inc.	5. TECHNICAL TRANSFER	Technology transfer to counterparts in the course of the study.		
10. STUDY TEAM	No. of Members 10 Period Sep. 1982 - Feb. 1984 (18 months) Total M/M 59.81 Japan 15.44 Field 44.37	12. EXPENDITURE	Total 183,882 (Y'000) Contracted 147,788		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled		
		(Description)	Application for project implementation was issued with the form of grant aid project cum project type technical assistance.		
		2. MAJOR REASONS FOR PRESENT STATUS			
		3. PRINCIPAL SOURCES OF INFORMATION	①		

PROJECT SUMMARY (M/P)

ASE PHL/S 105 /84

Compiled March 1988
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Infanta, Real, and Nakar, Quezon, Luzon 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	Infanta - Real Area Urban Development Project	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=20P) Total Cost Local Cost Foreign Cost			
3. SECTOR	Social Infrastructures/ Urban Planning & Land Development	(US\$1,000)	1) 615,000			(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.			2)			
5. TYPE OF STUDY	M/P	3. MAJOR PROJECT(S) PROPOSED				
6. COUNTERPART AGENCY	Human Settlement Development Corporation	(1) Improvement of transport conditions (2) Development of regional natural resources (fishery)				
7. OBJECTIVES OF STUDY	Master plan for the urban development in Infanta-Real area upon establishing the development strategy and target.	4. CONDITIONS AND DEVELOPMENT IMPACTS				
8. DATE OF S/W	Apr. 1983	A master plan was undertaken for development, improvement and preservation of the study area in conjunction with the national and regional programs of the nation. In formulating the concept plan, proper urban functions were established and the kind and scale of development was reviewed taking into account the functional roles of the study area in development concept of the eastern Manila and eastern seaboard.				
9. CONSULTANT(S)	Yachiyo Engineering Co., Ltd.	5. TECHINCAL TRANSFER			2. MAJOR REASONS FOR PRESENT STATUS	
10. STUDY TEAM	No. of Members 15 Period Jul.1983 - Mar.1985 (21 months) Total M/M 75.26 Japan 5.4 Field 69.86	(1) Acceptance of trainees: One <1> counterpart (2 months) (2) Use of Local consultant: Social, economic and financial analysis			3. PRINCIPAL SOURCES OF INFORMATION	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					(1)	
12. EXPENDITURE	Total 221,634 (¥000) Contracted 212,283					

和名 インファンタ・リアル都市開発計画

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

PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Philippine Road Disaster Prevention Project	1) San Jose - Ariteo (Northern Luzon) 2) Mahaplag - Sogod (Leyte) 3) Rosario - Baguio (Northern Luzon)				
3. SECTOR	Transportation/ Road	2. PROJECT COSTS	(US\$1=234.3Yen)		(Description)	
4. REFERENCE NO.			Total Cost	Local Cost		
5. TYPE OF STUDY	F/S	(US\$1,000)	1) 26,300	10,200		
6. COUNTERPART AGENCY	Ministry of Public Works and Highways	3. CONTENTS OF MAJOR PROJECT(S)			1) Dalton Pass OECF loan (Special Rehabilitation Fund) approved 2) Mahaplag - Sogod D/D was completed by the fund diverted from the OECF loan (North-West Leyte Road Project). 3) Kenon Road OECF loan (14th) approved in Jan.1988 (2,250 million yen) 1) and 3) were affected by the earthquake of June 1990, and D/D are being implemented again.	
7. OBJECTIVES OF STUDY	Formulation of disaster prevention measures for 3 selected sections of national highways	Protection of Shoulder slope: 1) Dalton Pass section 77 km 2) Mahaplag - Sogod 37 km 3) Kenon Road 34 km Total 148 km				
8. DATE OF S/W	Feb.1983	Implementation Period:	Jul.1987 - Jun.1990		2. MAJOR REASONS FOR PRESENT STATUS	
9. CONSULTANT(S)	Nippon Engineering Consultants Co., Ltd. Katahira & Engineers International	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
10. STUDY TEAM	No. of Members 8 Period May 1983 - Jun.1984 (13 months) Total M/M 55.86 Japan 1.75 Field 54.11	Feasibility: Yes	1) 18.7%	2) 14.4%	3) 16.6%	- large impact - high priority
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological and topographic surveys	Conditions and Development Impacts:			3. PRINCIPAL SOURCES OF INFORMATION	
12. EXPENDITURE	Total 181,268 (¥'000) Contracted 160,257	Development impacts: better access to isolated areas; recovery of road reliability; stimulation of private investments; saving of rehabilitation costs.				
		5. TECHINCAL TRANSFER	OJT and JICA training program for counterparts			

PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Southwestern Pampanga river basin, Pampanga Province, Central Luzon		1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Gumain River Irrigation Project	2. PROJECT COSTS	US\$1=14P Total Cost Local Cost Foreign Cost (US\$1,000) 1) 197,714 80,928 116,786 2) 3)		
3. SECTOR	Agriculture/ General	3. CONTENTS 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) unknown
4. REFERENCE NO.		Implementation Period:	Jan.1986 - Dec.1992		
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR Feasibility: Yes 12.8%		
6. COUNTERPART AGENCY	National Irrigation Administration	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.		
7. OBJECTIVES OF STUDY	Feasibility study for Gumain River Basin irrigation and drainage project	5. TECHNICAL TRANSFER	Technology transfer to counterparts in the course of the study.		
8. DATE OF S/W	Feb.1983	10. STUDY TEAM	No. of Members 15 Period Jul.1983 - Feb.1985 (20 months) Total M/M 72.96 Japan 33.75 Field 39.21		
9. CONSULTANT(S)	Nippon Koei Co., Ltd.	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic mapping		
12. EXPENDITURE	Total 267,250 (¥000) Contracted 258,015	12. EXPENDITURE			
		2. MAJOR REASONS FOR PRESENT STATUS			
		3. PRINCIPAL SOURCES OF INFORMATION	①		

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)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Metro Manila			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. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	Foreign Cost	
3. SECTOR	Transportation/ Urban Transportation	(US\$1,000)	1) 40,212			(Description) 1. This study, with technology transfer in transportation planning as one of its main objectives, has been undertaken in close coordination with counterparts, including regular meetings, involvement of local consultants and a series of organized seminars. As a consequence, the database prepared in the study has been intensively used, not only by DOTC but also DPWH and Transport Training Center, as well as by a number of students for their research work, thesis, and dissertation. Update of the database, however, has not been adequately done, though necessary manuals were prepared. 2. Public transport route management system based on PC has been officially introduced to DOTC's planning administration system. At present, the system is being utilized but insufficient update of the database affect the quality of planning work. 3. Rerouting plans were partly implemented even during the study period. Rerouting of jeepneys along the LRT corridor were not wholly implemented due to political reasons. However, the proposed integration of bus/jeepney routes was implemented based on which the official updated route list was prepared. 4. Recommendations on the mode interchange areas development have not been properly followed up by the government. However, due to the recent increase in land price and urban development opportunities, plans are reviewed and renewed actions take place.
4. REFERENCE NO.		3. MAJOR PROJECT(S) PROPOSED	1) Preparation of a detailed bus/jeepney rerouting plan for the influence area of LRT Line No.1. 2) Preparation of detailed traffic management and road and public transport facilities to be associated with the rerouting plan. 3) Development of bus/jeepney route management system for the entire Metro Manila. 4) Preparation of traffic management improvement plans for bus/jeepney terminal areas in Metro Manila. 5) Preparation of comprehensive development plans for five (5) mode interchange areas: (1) Divisoria Area: large-scale transport cum commercial and cultural facilities complex for LRT, bus and jeepney. (2) Recto Area: large-scale transport cum commercial and cultural facilities complex for LRT Line 1 and Line 2, bus and jeepney. (3) Cubao Area: large-scale transport cum commercial and business complex for LRT Line 2, bus and jeepney. (4) C3/Quezon Avenue Area: medium-scale transport cum commercial complex for bus and jeepney. (5) Novaliches Area: small-scale transport cum commercial facility development in suburban area for bus, jeepney and tricycle. 6) Development of transport database management method and system.			
5. TYPE OF STUDY	M/P	4. CONDITIONS AND DEVELOPMENT IMPACTS	(1) Rerouting Conditions: - Strengthening of bus and jeepney route management capabilities of related government agencies - Development of public transport facilities to lead bus and jeepney operators. Effects: - Rationalization of public transport operation through proper functional split among the LRT, bus and jeepney - Effective utilization of available road space and facilities (2) Mode Interchange Area Development Conditions: - Provision of financial support or incentives by the government for transport terminal development - Land acquisition or adjustment of rights among relevant bodies in the already developed area. Effects: - Encouragement of effective land use in the mode interchange areas - Increase in transport services in the area through improvement of traffic flow, convenience, safety, etc. (3) Transport Database Management Method Conditions: - Mill of implementation of relevant agencies - Establishment of periodical database updating system and organization Effects: - Efficiency increase in planning administration			
6. COUNTERPART AGENCY	Ministry of Transportation and Communications	5. TECHNICAL TRANSFER	(1) OJT: conduct of a series of seminars on the use of PCs for transportation planning (2) Training of two counterparts in Japan (3) Practical use of local consultants for cost estimate and systems analysis			
7. OBJECTIVES OF STUDY	- Transportation rerouting plan - Transportation development policy	10. STUDY TEAM	No. of Members 15 Period Oct.1982 - Mar.1984 (16 months) Jun.1984 - Sep.1985 (15 months) Total M/M 158.68 Japan 13.56 Field 145.12			
8. DATE OF S/W	1) Jul.1982 2) Mar.1984	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	transport surveys and systems analysis			
9. CONSULTANT(S)	ALMEC Corporation	12. EXPENDITURE	Total 490,159 (¥000) Contracted 468,192			
					2. MAJOR REASONS FOR PRESENT STATUS	
					3. PRINCIPAL SOURCES OF INFORMATION	
					①	

和名 マニラ首都圏都市交通計画 (フェーズI & II)

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

PROJECT SUMMARY (M/P)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS		
1. COUNTRY	Philippines	1. SITE OR AREA	Panay Basin, Copig Province, Panay Island			1. PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Panay River Basin-Wide Flood Control	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=234Yen)				
3. SECTOR	Social Infrastructures/ River & Erosion Control		Total Cost	Local Cost	Foreign Cost	(Description) The feasibility study of teh priority projects selected by the Master Plan Study has been deferred because its priority in the central government is not so high. However, necessity of the flood control component in particular is substantially recognized between local people and it is expected that the projects could develop and enhance a vital economic activities in the region. Further, unbalance of the development inter-region of Visayas became bigger due to recent acceleration of investment in Cebu. Therefore, the priority projects in Panay island are situated as one of key components in the region-wide development plan. The earlier implementation of the feasibility study will be realized by means of positive promotion and endorsement by the provincial government.	
4. REFERENCE NO.		(US\$1,000)	1) 323,000	195,000	128,000		
5. TYPE OF STUDY	M/P	3. MAJOR PROJECT(S) PROPOSED					
6. COUNTERPART AGENCY	Ministry of Public Works and Highways (Department of Public Works and Highways)	(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 maangement in areas vulnerable to floods of about 340 sq.km. in total and and relocation of housing in these areas.					
7. OBJECTIVES OF STUDY	Flood control	(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.					
8. DATE OF S/W	Dec.1982	(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.					
9. CONSULTANT(S)	Nippon Koei Co., Ltd.	(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.					
10. STUDY TEAM	No. of Members 18 Period Feb.1983 - Nov.1985 (33 months) Total M/M 89.92 Japan 21.65 Field 68.29	4. CONDITIONS AND DEVELOPMENT IMPACTS					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Flood control plan con, protect 340 sq.km in the basin which is equivalent of 1/4 of area of potentially usable land, and 15% of basin catchment area. Not only by flood control but also by irrigation and municipal and Industrial water supply, integrated landuse in the basin will be promoted in the future.					
12. EXPENDITURE	Total 414,927 (¥'000) Contracted 241,418	5. TECHINCAL TRANSFER					
		(1) OJT: A seminar was held after the draft final report was submitted. (2) Trainee: Two trainees visited Japan. (3) Working with counterparts was conducted.					
		2. MAJOR REASONS FOR PRESENT STATUS					
		Although this project has smaller economic investment effect than the present guideline of the Philippines (EIRR 15%), it is important to implement this project for rural economy as well as flood control.					
		3. PRINCIPAL SOURCES OF INFORMATION					
		①					

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)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	South-west of Luzon			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Development Project on the Port of Batangas	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=19P) Total Cost Local Cost Foreign Cost			
3. SECTOR	Transportation/ Port		1) 13,632	5,684	7,948	(Description) Followed by F/S.
4. REFERENCE NO.		2) (US\$1,000)				
5. TYPE OF STUDY	M/P+(F/S)	3. MAJOR PROJECT(S) PROPOSED	(Master Plan) Construction of 13 berths for cargo handling (3,063 thousand tonnes) and passengers. 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	4. CONDITIONS AND DEVELOPMENT 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.			
7. OBJECTIVES OF STUDY	Preparation for Master Plan (Target year 2000) and short-term development plan (Target year 1990)	5. TECHINCAL TRANSFER	Counterpart training (3 persons) -Feasibility study method -Field survey of ports similar to Batangas port			
8. DATE OF S/W	Jun.1984	9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan			
10. STUDY TEAM	No. of Members 10 Period Sep.1984 - Dec.1985 (16 months) Total M/M 76.49 Japan 44.50 Field 31.99	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Sounding survey, Shoreline survey, Geographical survey, Soil explorations			
12. EXPENDITURE	Total 181,400 (¥'000) Contracted 178,642	12. EXPENDITURE				
		2. MAJOR REASONS FOR PRESENT STATUS				
		3. PRINCIPAL SOURCES OF INFORMATION	①			

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)

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"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Development Project on the Port of Batangas	2. PROJECT COSTS	(US\$1=19P)			
3. SECTOR	Transportation/ Port		Total Cost	Local Cost	Foreign Cost	(Description) 1986 Jan. OECF E/S loan agreement (190 million yen) 1990 D/D completed and application made for yen credit (pledge is expected in early 1991). 1991 May OECF loan agreement was concluded. 1991 Nov Philippines government is examining PQ.
4. REFERENCE NO.		(US\$1,000)	1) 13,631	5,684	7,947	
5. TYPE OF STUDY	(M/P)+F/S		2)			
6. COUNTERPART AGENCY	Philippine Port Authority	3. CONTENTS OF MAJOR PROJECT(S)	3)			
7. OBJECTIVES OF STUDY	Preparation of Master Plan (target year 2000) and short-term development plan (target year 1990)	Wharf (-10m) 185 m " (-5m) 105 m " (-5m, Pier) 105 m " (-4.5m) 155 m Dredging 430,000 cu.m				
8. DATE OF S/W	Jun. 1984	Implementation Period:	Jun. 1986 - Dec. 1989			
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR		
10. STUDY TEAM	No. of Members 10 Period Sep. 1984 - Dec. 1985 (16 months) Total M/M 76.49 Japan 44.50 Field 31.99	Feasibility: Yes	35%	0.5%		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Sounding survey, Shoreline survey, Geographical survey, Soil explorations	Conditions and Development Impacts: Projection of cargo volume 1990: 596 thousand tonnes 2000: 3,050 " " Development Impact Contribution to the development of South Tagalog area and also to the development of social and economic activities in Metro Manila				
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			
					2. MAJOR REASONS FOR PRESENT STATUS	
					3. PRINCIPAL SOURCES OF INFORMATION	
					①	

和名 バタンガス港整備計画

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

PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT		
1. COUNTRY	Philippines	1. SITE OR AREA			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled	
2. NAME OF STUDY	Philippine Road Disaster Prevention Project, Stage II	1) Lucena - Calawag (N. Luzon) 2) Allen - Calbayog (Samar) 3) Bauang - Baguio (N. Luzon)					
3. SECTOR	Transportation/ Road	2. PROJECT COSTS	(US\$1=236.4Yen)		(Description)	1) Lucena - Calawag OECF loan (Special Rehabilitation Fund) approved 2) Allen - Calbayog and Nagilian Road OECF loan (16th) approved. Because of the earthquake in the summer of 1990, D/D is being implemented again.	
4. REFERENCE NO.			Total Cost	Local Cost			Foreign Cost
5. TYPE OF STUDY	F/S		1) 3,725	1,438			
6. COUNTERPART AGENCY	Ministry of Public Works and Highways		2)				
7. OBJECTIVES OF STUDY	Formulation of disaster prevention measures for 3 selected sections of national highways	3. CONTENTS OF MAJOR PROJECT(S)	3)				
8. DATE OF S/W	Aug. 1984	Protection of shoulder slope: Lucena - Calawag 95.7 km Allen - Calbayog 72.9 km Nagilian Road 47.2 km Total 215.8 km	Implementation Period: Jan. 1990 - Aug. 1991				
9. CONSULTANT(S)	Nippon Engineering Consultants Co., Ltd. Katahira & Engineers International	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR			
10. STUDY TEAM	No. of Members 7 Period Sep. 1984 - Jul. 1985 (9 months) Total M/M 31.46 Japan 2.46 Field 29.00	Feasibility: Yes	1) 16.0% 2) 14.4% 3) 15.4%				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological and topographic surveys	Conditions and Development Impacts: Conditions: Traffic projections for 1990, 2000 and 2010; road closure by disasters are 8 days/year for Lucena - Calawag, 9 days for Allen - Calbayog and 4 days for Nagilian Road. Development impacts: Better access to isolated areas; recovery of road reliability; stimulation of private investments; saving of rehabilitation costs	2. MAJOR REASONS FOR PRESENT STATUS				
12. EXPENDITURE	Total 99,822 (¥'000) Contracted 93,173	5. TECHNICAL TRANSFER	- large impact - high priority				
		OJT and JICA training program for counterparts	3. PRINCIPAL SOURCES OF INFORMATION				
			①				

PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Upstream reach of Agno River, middle Luzon island		1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	San Roque Multi-Purpose Dam Project (Re-Study)	2. PROJECT COSTS (US\$1=9.00P)	Total Cost	Local Cost	
3. SECTOR	Social Infrastructures/ Water Resource Development		1) 1,200,000		
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	2) (US\$1,000)	Foreign Cost	
5. TYPE OF STUDY	F/S	structure	3)		
6. COUNTERPART AGENCY	National Power Corporation (NPC)	Main Dam (filldam)	Gross storage 990 million cu.m Effective storage 670 million cu.m		
7. OBJECTIVES OF STUDY	- Review of hydrological study - Evaluation on quality of irrigation water	Installed Capacity	390MW		
8. DATE OF S/W	Oct. 1983	Implementation Period:			
9. CONSULTANT(S)	Nippon Koei Co., Ltd. (Nikkou Tankai)	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	
10. STUDY TEAM	No. of Members 17 Period Nov. 1983 - Mar. 1985 (17 months) Total M/M 38.35 Japan 12.69 Field 25.66	Feasibility: Yes			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts:			
12. EXPENDITURE	Total 117,374 (¥'000) Contracted 102,244	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.			
		5. TECHNICAL TRANSFER	1. Training in Japan (JICA trainee): 2 persons (first year) and 1 person (second year) 2. Supply of equipment and the instruction on operation		
			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.		
			3. PRINCIPAL SOURCES OF INFORMATION		
			①		

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)

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="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Asue River Basin Agricultural Development Project	2. PROJECT COSTS	US\$1=240Yen in Oct.1984 Total Cost Local Cost Foreign Cost 1) 38,470 16,927 21,543 (US\$1,000) 2) 72,813 40,408 32,405 3)			
3. SECTOR	Agriculture/ General	3. CONTENTS 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. Implementation Period:			(Description) Irrigation development projects have been largely suspended in the Philippines due to worsened financial status of government. Although NIA would like to implement the project early, there is no movement to realize this project as of the present.
4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	2. MAJOR REASONS FOR PRESENT STATUS	
5. TYPE OF STUDY	F/S	Feasibility:	13.2%	9.7%		3. PRINCIPAL SOURCES OF INFORMATION
6. COUNTERPART AGENCY	National Irrigation Authority	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			
7. OBJECTIVES OF STUDY	Integrated rural development in Asue and adjoining basin	5. TECHINCAL TRANSFER	Training in Japan			
8. DATE OF S/W	Jan.1983	10. STUDY TEAM	No. of Members 12 Period May.1984 - Aug.1985 (16 months) Total M/M 70.43 Japan 31.26 Field 39.17			
9. CONSULTANT(S)	Chuo Kaihatsu Corporation Sanyu Consultants Inc. Tamano Consultans	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY				
12. EXPENDITURE	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)

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Warig 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 COSTS	US\$1=18P		
3. SECTOR	Agriculture/ General		Total Cost	Local Cost	Foreign Cost
4. REFERENCE NO.			1) 36,556	14,333	22,222
5. TYPE OF STUDY	F/S		2)		
6. COUNTERPART AGENCY	National Irrigation Authority	3. CONTENTS OF MAJOR PROJECT(S)	3)		
7. OBJECTIVES OF STUDY	Agricultural development plan with irrigation facilities	1) Water Resources Development of Warig 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 Implementation Period: Jan.1987 - Dec.1991			
8. DATE OF S/W	Feb.1984	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	
9. CONSULTANT(S)	Sanyu Consultants Inc. Nihon Suido Consultants Co., Ltd. Naigai Engineering Co., Ltd. Asahi Aerial Survey Co., Ltd.		15.4%		
10. STUDY TEAM	No. of Members 12 Period Dec.1984 - Dec.1985 (13 months) Jun.1984 - Dec.1984 (7 months) Total M/M 51.13 Japan 19.10 Field 32.03	Feasibility: Yes 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.			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHINICAL TRANSFER	To the counterpart in the process of implementation.		
12. EXPENDITURE	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 checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled	
		(Description)		Although the whole project is not materialized, small dam, main and branch canals, and on-farm facilities whose service area is about 750 ha are presently implemented as the grant aid project by Japanese government.	
		2. MAJOR REASONS FOR PRESENT STATUS			
		3. PRINCIPAL SOURCES OF INFORMATION		①	

PROJECT SUMMARY (M/P + F/S)

ASE PHL/S 204A /86

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Two cities (Angeles and Dagupan) and two groups of towns (Cabayao, Santa Rosa and Biniyan; Bayombong and Sorano)		
2. NAME OF STUDY	Municipal Water Supply Project	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=20.50P) Total Cost Local Cost Foreign Cost		
3. SECTOR	Public Utilities/ Water Supply		1) 43,678	18,573	
4. REFERENCE NO.		3. MAJOR PROJECT(S) PROPOSED			
5. TYPE OF STUDY	M/P+(F/S)	(1) Angeles City:	Construction of 13 tube wells, 3 distribution reservoir and booster pumping station		
6. COUNTERPART AGENCY	Local Water Utilities Administration (LWUA)	(2) Dagupan City:	Construction of 19 tube wells, chlorinator treatment facilities and transmission pipeline		
7. OBJECTIVES OF STUDY	Formulation of a master plan for water supply in seven local cities and towns	(3) Cabuyao-Sta. Rosa-Binan:	Construction of new distribution reservoir, distribution pipeline and booster pumping station		
8. DATE OF S/W	Oct. 1985	(4) Bayombong-Solano:	Construction of radial well facilities, chlorinator treatment facilities and transmission and distribution pipeline		
9. CONSULTANT(S)	Nippon Jogesuido Sekkel Co.	4. CONDITIONS AND DEVELOPMENT IMPACTS	1) Improvement of living environment 2) Economic impacts as follows - Decrease of water-borne diseases - Reduction of medical expenses - Increase of working hours - Increase of land prices - Reduction of fire damages		
10. STUDY TEAM	No. of Members 10 Period Feb. 1986 - Mar. 1987 (14 months) Total M/M 40.97 Japan 19.93 Field 22.04	5. TECHINCAL TRANSFER	(1) On-the-job training on development planning for urban water supply system. (2) On-the-job training on tube well construction.		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Water quality analysis	1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
12. EXPENDITURE	Total 163,499 (¥000) Contracted 149,175	(Description)	Followed by F/S. Detailed design and construction work are conducted for Angeles City, Bayombong-Solano and Ilocos Norte, financed by OECF Loan.		
		2. MAJOR REASONS FOR PRESENT STATUS	- 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.		
		3. PRINCIPAL SOURCES OF INFORMATION	①		

和名 地方都市上水道整備計画

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