

PROJECT SUMMARY (F/S)

Compiled	March 1990
Revised	March 1991

ASO MYN 305 /86

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Myanmar	1. SITE OR AREA	Rangoon - Mandalay, Pegu-Martaban, Rangoon - Prome, Myohaung Junction - Minati	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	Track, Telecommunication and Signalling Improvement Project	2. PROJECT COSTS	(US\$1=199Yen) Total Cost Local Cost Foreign Cost 1) 163,000 57,000 106,000 (US\$1,000) 2) 3)	(Description)	After the completion of the study, the Government planned to apply for yen credit, but because of the succession of economic and political problems, the application did not materialize.
3. SECTOR	Transportation/ Railway	3. CONTENTS OF MAJOR PROJECT(S)			
4. REFERENCE NO.		The master plan study on 4 lines. The feasibility study on Rangoon - Mandalay line, with following components: - Track improvement (800 km) - Signal improvement (4 stations, signal replacement, 20 crossings) - Telecommunication improvement (transmission 620 km, exchange and relay equipment) - Other related facilities			
5. TYPE OF STUDY	F/S	Implementation Period:	1986 - 2001		
6. COUNTERPART AGENCY	Burma Railway Corporation	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 10.7% 2.8%	2. MAJOR REASONS FOR PRESENT STATUS	Political destabilization Designation as a LLDC country
7. OBJECTIVES OF STUDY	Formulation of a long-term and short-term development plan for tracks, signalling and telecommunication equipment	Feasibility: Yes	Conditions and Development Impacts: Benefits: 1) Saving of the investment in rolling stock 2) Time saving of passengers 3) Saving of railway operating costs 4) Saving of road investment Impacts: 1) 2) Reduction of railway accidents 3) Saving of fuel costs 4) Reduction of manpower requirements		
8. DATE OF S/W	Aug. 1985	9. CONSULTANT(S)	Japan Railway Technical Service and Pacific Consultants International		
10. STUDY TEAM	No. of Members 12 Period Jan.1986 - Feb.1987 (14 months) Total M/M 90.40 Japan 53.34 Field 37.06	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	3. PRINCIPAL SOURCES OF INFORMATION	(1)
12. EXPENDITURE	Total 247,477 (¥'000) Contracted 242,970	5. TECHINICAL TRANSFER	Participation of counterparts in JICA training program		

和名 幹線鐵道整備計画

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

PROJECT SUMMARY (F/S)

Compiled March 1986
Revised March 1991

ASO NPL 301/83

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Nepal	1. SITE OR AREA	Whole country	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	Rural Telecommunications Network Project	2. PROJECT COSTS	(US\$1=270Yen) Total Cost Local Cost Foreign Cost (US\$1,000) 1) 34,963 2) 34,963 3)	(Description) The project was implemented with Japanese grant aid. Jun.1984 E/N of grant aid signed (154 million yen) Mar.1985 D/D completed Oct.1985 E/N of grant aid signed (4,376 million yen)	
3. SECTOR	Communications & Broadcasting/Telecommunication	3. CONTENTS OF MAJOR PROJECT(S)	Contents construct the National Radio Telecommunications Network with 53 Radio Stations.		
4. REFERENCE NO.		Implementation Period:	Jan.1986 - Mar.1989		
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR Feasibility: Yes		
6. COUNTERPART AGENCY	Nepal Telecommunicating Corporation (NTC)	Conditions and Development Impacts: The National Radio Telecommunications Network is to be constructed under the 6th national development plan (1980-85), in order to increase productivity and employment opportunity and to improve the economic infrastructure. The project may have impacts on not only communications but also on education, medical treatment, agriculture, and tourism.		2. MAJOR REASONS FOR PRESENT STATUS - large impacts - high priority	
7. OBJECTIVES OF STUDY	To determine the technical and economic feasibilities of the project to improve the Rural Telecommunications				
8. DATE OF S/W	Sep.1982	5. TECHNICAL TRANSFER OJT was conducted for the counterpart staff.		3. PRINCIPAL SOURCES OF INFORMATION (1)	
9. CONSULTANT(S)	Nippon Telecommunication Consulting Co., Ltd				
10. STUDY TEAM	No. of Members 13 Period Nov.1982 - Oct.1983 (12 months) Total M/M 24.2 Japan 11.5 Field 12.7				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 81,960 (¥'000) Contracted 48,007				

PROJECT SUMMARY (M/P)

ASO NPL 101/84

Compiled March 1988
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Nepal	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	Kosi River Water Resources Development	1. SITE OR AREA	42,000 sq.km in eastern Nepal		
3. SECTOR	Social Infrastructures/ Water Resource Development	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	<div> <div>Total Cost</div> <div>Local Cost</div> <div>Foreign Cost</div> </div>		(Description) This is the first integrated development study in the region. In particular, the Arun 3 project has been the focus of attention due to large potentiality for supply of cheap power. At the request of the Nepalese government, an F/S for the Arun 3 project (Arun 3 Hydropower Development Project) has been carried out by JICA. Oct.1988-Apr.1991 D/D is implemented jointly by West Germany (Lahmeyer/Energy Engineering) and Japan (EPDC/CKC). Construction is scheduled to begin in 1991 and be completed in 2000. The government of Nepal is requesting a JICA F/S on Sun Kosi Diversion Project.
4. REFERENCE NO.		3. MAJOR PROJECT(S) PROPOSED	(1) Arun catchment project (Arun 3) (2) Sun Kosi diversion project		
5. TYPE OF STUDY	M/P	4. CONDITIONS AND DEVELOPMENT IMPACTS	Development impact includes (1) supply of abundant, low cost power (2) large scale irrigated agricultural development (3) regional development through access road construction		
6. COUNTERPART AGENCY	Department of Electricity, Ministry of Water Resources	5. TECHINICAL TRANSFER	(1) Training of 4 counterparts personnel on power development planning (2) Supply and training in use of drilling equipment		
7. OBJECTIVES OF STUDY	Hydropower; irrigation			2. MAJOR REASONS FOR PRESENT STATUS	
8. DATE OF S/W	Feb.1983			(1) The Arun 3 hydropower project is the most economically viable project among projects surveyed in Nepal. (2) Implementation of Arun 3 will promote the development of other hydropower projects in the area. (3) Sun Kosi: Diversion Project is important partly for its impact on food production and partly for environmental conservation.	
9. CONSULTANT(S)	Chuo kaihatsu Corporation; Toden Corp.; Kokusai Kogyo Co., Ltd.			3. PRINCIPAL SOURCES OF INFORMATION	
10. STUDY TEAM	No. of Members 22 Period Jun.1983 - Mar.1985 (21 months) Total M/M 57.5 Japan 37.5 Field 20.0			(1)	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 491,986 (¥'000) Contracted 181,019				

和名 コシ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 + F/S)

Compiled March 1990
Revised March 1991

ASO NPL 201A/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Nepal	1. SITE OR AREA	Kathmandu and east and west Terai		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 Plan of Television Network	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=130Yen) Total Cost Local Cost Foreign Cost 1) 41,700 4,600 37,100 (US\$1,000) 2)		
3. SECTOR	Communications & Broadcasting/ Broadcasting	3. MAJOR PROJECT(S) PROPOSED	See next page		(Description) Followed by F/S.
4. REFERENCE NO.					
5. TYPE OF STUDY	M/P+(F/S)				
6. COUNTERPART AGENCY	Nepal Television Corporation				
7. OBJECTIVES OF STUDY	Formulation of a development plan of TV broadcasting network				
8. DATE OF S/W	Feb.1987	4. CONDITIONS AND DEVELOPMENT IMPACTS	The proposed TV network will play an important role in the national development, by improving the level of education and literacy and vocational training.		2. MAJOR REASONS FOR PRESENT STATUS
9. CONSULTANT(S)	Integrated Technology Inc.				
10. STUDY TEAM	No. of Members 8 Period Jun.1987 - Mar.1988 (22 months) Total M/M 33.68 Japan 17.53 Field 16.15				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Cross-cut topographic mapping	5. TECHINICAL TRANSFER	1) OJT 2) Participation of counterparts in JICA training program		3. PRINCIPAL SOURCES OF INFORMATION
12. EXPENDITURE	Total 128,937 (¥000) Contracted 99,420			(1)	

和名 テレビジョン放送網開発計画

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

PROJECT SUMMARY (M/P + F/S)

ASO NPL 201B/87

Compiled March 1990
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																
1. COUNTRY	Nepal	1. SITE OR AREA	Kathmandu and east and west Terai		1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled															
2. NAME OF STUDY	Development Plan of Television Network	2. PROJECT COSTS	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>417,000</td> <td>4,600</td> <td>37,100</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)	417,000	4,600	37,100	2)				3)		
	Total Cost	Local Cost	Foreign Cost																	
1) (US\$1,000)	417,000	4,600	37,100																	
2)																				
3)																				
3. SECTOR	Communications & Broadcasting/ Broadcasting	3. CONTENTS OF MAJOR PROJECT(S)	(Description) The Government of Nepal is requesting Japanese grant aid to implement the project.																	
4. REFERENCE NO.		TV Studio (Kathmandu) : 4 studios Broadcasting stations : 2 stations Relay stations : 16 stations Outdoor relay vans : 1 vehicle																		
5. TYPE OF STUDY	(M/P)+F/S																			
6. COUNTERPART AGENCY																				
7. OBJECTIVES OF STUDY		Implementation Period:	1989 - 1995																	
8. DATE OF S/W	Feb. 1987	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR																	
9. CONSULTANT(S)		Feasibility: Yes																		
10. STUDY TEAM	No. of Members 8 Period Jun. 1987 - Mar. 1988 (22 months) <table border="1"> <thead> <tr> <th></th> <th>Total M/M</th> </tr> </thead> <tbody> <tr> <td>Japan</td> <td>33.68</td> </tr> <tr> <td>Field</td> <td>24.51</td> </tr> <tr> <td></td> <td>9.17</td> </tr> </tbody> </table>		Total M/M	Japan	33.68	Field	24.51		9.17	Conditions and Development Impacts: FIRR will be 18.6% if grant aid is used for investment, and -4.9% if a loan is used. Development impacts: - Speedy dissemination of information and strengthening of effective communication means - Improvement of school education - Improvement of agricultural extension services - Diffusion of family planning, health care and hygiene - Integration of different ethnic and cultural communities	2. MAJOR REASONS FOR PRESENT STATUS									
	Total M/M																			
Japan	33.68																			
Field	24.51																			
	9.17																			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHINICAL TRANSFER			The Nepalese side is very eager to implement the project, but the Japanese grant aid program for Nepal is already fully committed to the other projects for the next three years.															
12. EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td></td> <td>128,937 (¥000)</td> <td>99,420</td> </tr> </tbody> </table>		Total	Contracted		128,937 (¥000)	99,420		3. PRINCIPAL SOURCES OF INFORMATION											
	Total	Contracted																		
	128,937 (¥000)	99,420																		
					(1)															

和名 テレビジョン放送網開発計画

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

PROJECT SUMMARY (F/S)

Compiled	March 1986
Revised	March 1991

ASO NPL 302 /88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Nepal	1. SITE OR AREA	Between Bardibas and Dhulikhel in the Central Development Region		1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Sindhuli Road Construction Project	2. PROJECT COSTS	(US\$1=130Yen=21.0Rps.) Total Cost Local Cost Foreign Cost (US\$1,000) 207,000 29,000 178,000 1) 2) 3)		
3. SECTOR	Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	- Construction of trunk road (155 km, two-lane, paved) connecting the East-West Highway in the Terai Plains and the Kathmandu region - The project is divided into two sections Section I: From Bardibas of the East-West Highway Bazar to Shindhuli Section II: Shindhuli Bazar - Khurkot - Nepalthok - Dhulikhel of Kodari Road - A operation & maintenance training center		(Description) The Government of Nepal assigns top priority to this project among various trunk road projects, and plans to request Japanese grant aid.
4. REFERENCE NO.		Implementation Period: 1989 - 2000			
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 9.6% Feasibility: Yes B/C 1,261		
6. COUNTERPART AGENCY	Dept. of Road, Ministry of Works and Transport	Conditions and Development Impacts: - The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.			
7. OBJECTIVES OF STUDY		10. STUDY TEAM	2. MAJOR REASONS FOR PRESENT STATUS		
8. DATE OF S/W	Jul. 1986	No. of Members 21 Period Nov. 1986 - Jun. 1988 (20 months) Total M/M 98.8 Japan 40.2 Field 58.6			
9. CONSULTANT(S)	Nippon Koei Co. and Kokusai Kogyo Co.	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	3. PRINCIPAL SOURCES OF INFORMATION		
		Traffic survey Geological survey	(1)		
12. EXPENDITURE	Total 406,657 (Y'000) Contracted 414,063	5. TECHNICAL TRANSFER			
		OJT on traffic survey and analysis, road engineering technology, etc.			

和名 シンズリ道路建設計画

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

PROJECT SUMMARY (M/P + F/S)

Compiled March 1991
Revised

ASO NPL 202A /89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Nepal	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 Plan of Civil Aviation	1. SITE OR AREA	The whole area of Nepal		
3. SECTOR	Transportation/ Air Transportation & Airport	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	(Description) Followed by F/S.
4. REFERENCE NO.			1) 605,000		
5. TYPE OF STUDY	M/P+(F/S)		2)		
6. COUNTERPART AGENCY	Department of Civil Aviation, Ministry of Tourism	3. MAJOR PROJECT(S) PROPOSED			
7. OBJECTIVES OF STUDY	Over-all development of air transport system in Nepal	1.Kathmandu International Airport Development Project 2.New Pokhara Airport Development Project 3.Jomsom, Simikot, Lukla, Syangboche and Mugu airport development projects 4.En-route Navais Network Project and Nationwide Aeronautical Telecom. Network Project			
8. DATE OF S/W	Feb.1988	4. CONDITIONS AND DEVELOPMENT IMPACTS	1.Improvement of the function and capacity of the existing airport facilities 2.Improvement of safety and punctuality of aircraft operations 3.Contribution to the public welfare in remote districts 4.Promotion of the tourism sector		
9. CONSULTANT(S)	Pacific Consultants International				
10. STUDY TEAM	No. of Members 8 Period Aug.1988 - Sep.1988 (14 months) Total M/M 50.14 Japan 31.49 Field 18.65			2. MAJOR REASONS FOR PRESENT STATUS	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey and Soil Investigation				
12. EXPENDITURE	Total 167,332 (¥'000) Contracted 155,142	5. TECHINCAL TRANSFER	Counterpart training in Oct. and Nov. 1988 which consists of lectures on airport plannings, discussion on the study, and inspection of the airport in Japan		
				3. PRINCIPAL SOURCES OF INFORMATION	
				(1)	

和名 国内航空網整備計画

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

PROJECT SUMMARY (M/P + F/S)

ASO NPL 202B /89

Compiled March 1991
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																				
1. COUNTRY	Nepal	1. SITE OR AREA	Kathmandu, Pokhara, Jomsom, Simikot, Lukla, and Syangboche airports		1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled																			
2. NAME OF STUDY	Development Plan of Civil Aviation	2. PROJECT COSTS	<table border="1"> <tr> <td></td> <td>Total Cost</td> <td>Local Cost</td> <td>Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td>246,300</td> <td>55,600</td> <td>190,700</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> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	246,300	55,600	190,700	1)				2)				3)		
	Total Cost	Local Cost	Foreign Cost																					
(US\$1,000)	246,300	55,600	190,700																					
1)																								
2)																								
3)																								
3. SECTOR	Transportation/ Air Transportation & Airport	3. CONTENTS OF MAJOR PROJECT(S)	1. Kathmandu International Airport Project a. New domestic terminal building b. Expansion of passenger apron c. Installation of air navigation system 2. New Pokhara Airport 3. Development of Jomsom, Simikot, Lukla, and Syangboche Airports		(Description) Under promotion																			
4. REFERENCE NO.		Implementation Period: 1989 - 1994																						
5. TYPE OF STUDY	(M/P)+F/S	4. FEASIBILITY AND ITS ASSUMPTIONS																						
6. COUNTERPART AGENCY	Department of Civil Aviation, Ministry of Tourism	EIRR FIRR 1) 19.7% 2) 2.1% Feasibility: Conditions and Development Impacts: - Improvement of the functions and capacity of the existing airport facilities - Improvement of safety and punctuality of aircraft operations - Contribution to the public welfare in remote areas - Promotion tourism Note: EIRR for Jomsom and Simikot are 13.1% and 9.6%.																						
7. OBJECTIVES OF STUDY	Examination of the feasibility on the priority plans.	5. TECHINCAL TRANSFER		2. MAJOR REASONS FOR PRESENT STATUS																				
8. DATE OF S/W	Feb. 1988	Counterpart training from Aug. to Oct. 1989 which consists of lectures on airport plannings, discussion on the study, and inspection of the airport in Japan		3. PRINCIPAL SOURCES OF INFORMATION																				
9. CONSULTANT(S)	Pacific Consultants International			(1)																				
10. STUDY TEAM	No. of Members 8 Period Dec. 1988 - Sep. 1989 (14 months) Total M/M 50.14 Japan 31.49 Field 18.65																							
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY																								
12. EXPENDITURE	Total 167,332 (¥000) Contracted 155,142																							

和名 国内航空網整備計画

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

PROJECT SUMMARY (Other)

Compiled	March 1990
Revised	March 1992

ASO PAK 601 /75

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Pakistan	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	Port Muhammad-Bin-Quasim Project (follow-up)	Quasim Port			
3. SECTOR	Transportation/ Port	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost	Local Cost	Foreign Cost
4. REFERENCE NO.		(US\$1,000)	1) 59,686	32,414	27,272
5. TYPE OF STUDY	Other	2)			
6. COUNTERPART AGENCY	Quasim Port Authority	3. MAJOR PROJECT(S) PROPOSED	In response to the request of the Pakistani Government, the study team explained the results of the study on Quasim Port and offered technical suggestions.		
7. OBJECTIVES OF STUDY		4. CONDITIONS AND DEVELOPMENT IMPACTS			
8. DATE OF S/W		5. TECHINICAL TRANSFER	Training in Japan on port development and basic design		
9. CONSULTANT(S)	Central Consultant, Inc.	12. EXPENDITURE			
10. STUDY TEAM	No. of Members 3 Period Feb.1976 - Mar.1976 (1 months) Total M/M 2.2 Japan 0 Field 2.2	3. PRINCIPAL SOURCES OF INFORMATION	(1)		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		2. MAJOR REASONS FOR PRESENT STATUS			

和名 バンデルカシム港建設計画アフターケア

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

PROJECT SUMMARY (M/P + F/S)

Compiled	March 1986
Revised	March 1991

ASO PAK 201A /79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Pakistan	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	Shipping & Shipbuilding Development	Major parts and shipbuilding yards			
3. SECTOR	Transportation/ Marine Transportation & Ships	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost Local Cost Foreign Cost	(Description)	Followed by F/S on shipping improvement.
4. REFERENCE NO.		1) (US\$1,000)			
5. TYPE OF STUDY	M/P+ (F/S)	2)			
6. COUNTERPART AGENCY	Ports and Shipping Wing, Ministry of Communications	3. MAJOR PROJECT(S) PROPOSED			
7. OBJECTIVES OF STUDY		The study proposed the fleet replacement for the government-owned national shipping line and the improvement of the government-owned shipbuilding yard (KSEW).			
8. DATE OF S/W	Mar. 1978	1) Shipping 22 obsolete ships (226,800 DWT) will be scrapped during 1980 - 1983 and replaced by 16 new ships (240,000 DWT).			
9. CONSULTANT(S)	Shipbuilding Research Centre of Japan	2) Shipbuilding The capacity and operation of KSEW was studied to propose measures for improving productivity. Out of 16 new ships, 4 will be constructed by KSEW.			
10. STUDY TEAM	No. of Members 7 Period Aug. 1978 - Oct. 1979 (14 months) Total M/M 16.55 Japan 10 Field 6.55	4. CONDITIONS AND DEVELOPMENT IMPACTS			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		The project will contribute to the growth of shipping and the balance of payments improvement.			
12. EXPENDITURE	Total 51,135 (¥'000) Contracted 39,849	5. TECHINICAL TRANSFER		2. MAJOR REASONS FOR PRESENT STATUS	
				3. PRINCIPAL SOURCES OF INFORMATION	(1)

和名 海運・造船振興計画

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

PROJECT SUMMARY (M/P + F/S)

ASO PAK 201B /79

Compiled March 1986
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Pakistan	1. SITE OR AREA	Karachi	1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2. NAME OF STUDY	Shipping & Shipbuilding Development	2. PROJECT COSTS	Total Cost 226,201 Local Cost 14,000 Foreign Cost 750 (US\$1,000)	(Description) 1979 Mar. OECF loan agreement (18,000 million yen) 1980 Dec. - 1983 Mar. The project was implemented One ship was built by KSEW and six ships were built in Japan.	
3. SECTOR	Transportation/ Marine Transportation & Ships	3. CONTENTS OF MAJOR PROJECT(S)	1) Shipping Construction of 16 multi-purpose vessels (15,000 DWT) (4 vessels to be built at KSEW) 2) Shipbuilding Purchase of necessary equipment, overseas manpower training, technical assistance by experts		
4. REFERENCE NO.		Implementation Period:	1) 1979 - 1983 2) 1979 - 1980		
5. TYPE OF STUDY	(M/P)+F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 1) 20.1% Feasibility: Yes		
6. COUNTERPART AGENCY		Conditions and Development Impacts: Conditions: 1) Operation of 16 new ships; 2) investment of US\$226.2 million distributed over 5 years (1979-83); 3) the construction of 16 ships to be completed during the same period; 4) annual tariff revenue of US\$14.17 million per ship; 5) 70% of the investment cost to be repaid at the interest rate of 8.5% per annum, and the remaining 30% at the rate of 10.5%, over 7 years; project life of 20 years; and the rate of inflation at 8% per annum. Development impacts: Shipping: 1) 16 new ships will earn US\$300 million in foreign exchange; and 2) improvement of distribution and price stabilization; Shipbuilding: 1) increase of production at KSEW (from US\$6.4 million in 1975/76 to 44.76 million in 1982/83); 2) saving of foreign exchange (12 million); 3) creation of employment (800)		2. MAJOR REASONS FOR PRESENT STATUS	
7. OBJECTIVES OF STUDY		5. TECHINCAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION	
8. DATE OF S/W	Mar. 1978	OJT		(1)	
9. CONSULTANT(S)					
10. STUDY TEAM	No. of Members 7 Period Aug. 1978 - Oct. 1979 (14 months) Total M/M 16.55 Japan 10 Field 6.55				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 51,135 (¥'000) Contracted 39,849				

和名 海運・造船振興計画

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

PROJECT SUMMARY (F/S)

Compiled March 1986
Revised March 1991

ASO PAK 301/79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Pakistan	1. SITE OR AREA	West side of Makran Coast/ South of Baluchistan	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	Construction Project of a Mini-Port in Gwadar	2. PROJECT COSTS	(US\$1=RS10) Total Cost 22,500 Local Cost 3,610 Foreign Cost	(Description) As the project site is near the border of Iran, this project was delayed because of the Iran-Iraq War.	
3. SECTOR	Transportation/ Port	3. CONTENTS OF MAJOR PROJECT(S)			
4. REFERENCE NO.		Item	Quantity		
5. TYPE OF STUDY	F/S	Breakwater	1,030m		
6. COUNTERPART AGENCY	Port and Shipping Wing Ministry of Communication	Quay -1.5m	200m	2. MAJOR REASONS FOR PRESENT STATUS Due to the bad economic condition	
7. OBJECTIVES OF STUDY	Planning a mini-port capable of functioning as a fishing port.	-3.0m	740m		
8. DATE OF S/W	Sep.1978	Ice,freezing and refrigeration Plant	1 unit		
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan and Kiso-jiban Consultants Co.,Ltd.	Refrigeration vessal	1 unit		
10. STUDY TEAM	No. of Members 16 Period Sep.1978 - Mar.1980 (19 months) Total M/M 72.47 Japan 56.1 Field 16.37	Revetment	500m	3. PRINCIPAL SOURCES OF INFORMATION (1)	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Soil condition survey ¥1,630	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR 3.8% FIR Feasibility: Yes		
12. EXPENDITURE	Total 182,029 (¥'000) Contracted 184,340	5. TECHINCAL TRANSFER	Study team carried out on the job trainings to counterpart for theory of natural condition survey and port planning on		

和名 グアダル・ミニポート開発計画

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

PROJECT SUMMARY (M/P + F/S)

Compiled March 1986
Revised March 1991

ASO PAK 202A/81

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Pakistan	1. SITE OR AREA	Karachi	1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Introduction of Containerization	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=210Yen=9.9Rp) Total Cost Local Cost Foreign Cost 1) 218,490 81,893 2)	(Description) Feasibility study on the introduction of containerization by ODI	
3. SECTOR	Transportation/ Port	3. MAJOR PROJECT(S) PROPOSED			
4. REFERENCE NO.		Select and compare two ports, Karachi port and Qasim port, as container terminal. Set up an inland CFS in Lahore. (Main works) Long-term project: Container terminal: 6 berth (New construction) Inland CFS: 50 ha Urgent improvement plan Container terminal: 2 berth (Qasim) Inland CFS: 30 ha (Lahore), Railway transport			
5. TYPE OF STUDY	M/P+(F/S)				
6. COUNTERPART AGENCY	Ports and Shipping Wing Ministry of Communication			2. MAJOR REASONS FOR PRESENT STATUS	
7. OBJECTIVES OF STUDY	Preparation of long-term project and short-term development plan of container terminal				
8. DATE OF S/W	Jul. 1980	4. CONDITIONS AND DEVELOPMENT IMPACTS			
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan	There is a tendency to increase containerization in the world. It is possible for Karachi Port to make efficient the existing cargo handling facilities and deal with the container cargo which is expected to rapidly increase in the near future, and to improve economic activities in Pakistan by implementing this project.			
10. STUDY TEAM	No. of Members 10 Period Nov. 1980 - Mar. 1982 (16 months) Total M/M 67.4 Japan 49.6 Field 17.8			3. PRINCIPAL SOURCES OF INFORMATION (1)	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER			
		Counterpart training (4 persons) Instruction on method of port planning and feasibility study			
12. EXPENDITURE	Total 142,298 (¥000) Contracted 134,266				

和名 コンテナ輸送導入計画

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

PROJECT SUMMARY (M/P + F/S)

ASO PAK 202B/81

Compiled March 1986
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																
1. COUNTRY	Pakistan	1. SITE OR AREA	Karachi	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	Introduction of Containerization	2. PROJECT COSTS	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>115,472</td> <td>43,299</td> <td></td> </tr> <tr> <td>2)</td> <td>103,018</td> <td>38,594</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)	115,472	43,299		2)	103,018	38,594		3)		
	Total Cost	Local Cost	Foreign Cost																	
1) (US\$1,000)	115,472	43,299																		
2)	103,018	38,594																		
3)																				
3. SECTOR	Transportation/ Port	3. CONTENTS OF MAJOR PROJECT(S)	(Description) -Suspended after F/S -It is expected that the project will be implemented when the cargo volume increase in the future																	
4. REFERENCE NO.		Urgent Improvement Plan																		
5. TYPE OF STUDY	(M/P)+F/S	<table border="1"> <thead> <tr> <th></th> <th>Karachi</th> <th>Qasim</th> </tr> </thead> <tbody> <tr> <td>Container berth</td> <td>600m</td> <td>600m</td> </tr> <tr> <td>Container Terminal</td> <td>282,400sq.m</td> <td>282,400sq.m</td> </tr> <tr> <td>Railway</td> <td>11,700m</td> <td>5,500m</td> </tr> <tr> <td>Roads</td> <td>4,700m</td> <td>2,500m</td> </tr> </tbody> </table>					Karachi	Qasim	Container berth	600m	600m	Container Terminal	282,400sq.m	282,400sq.m	Railway	11,700m	5,500m	Roads	4,700m	2,500m
	Karachi	Qasim																		
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Roads	4,700m	2,500m																		
6. COUNTERPART AGENCY		Implementation Period: Jan.1982 - Dec.1986																		
7. OBJECTIVES OF STUDY		4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	2. MAJOR REASONS FOR PRESENT STATUS															
8. DATE OF S/W	Jul.1980	1) 14.3% 2) 12.2%																		
9. CONSULTANT(S)		Feasibility: Yes																		
10. STUDY TEAM	No. of Members 10 Period Nov.1980 - Mar.1982 (16 months) <table border="1"> <thead> <tr> <th>Total M/M</th> <th></th> </tr> </thead> <tbody> <tr> <td>Japan</td> <td>67.4</td> </tr> <tr> <td>Field</td> <td>49.6</td> </tr> <tr> <td></td> <td>17.8</td> </tr> </tbody> </table>	Total M/M		Japan		67.4	Field	49.6		17.8	Conditions and Development Impacts: Conditions: Container cargo volume is predicted based on the feasibility study in 1978 and 1980 by import/export, cargo items and sea route. It is assumed that tariff is raised by 25% according to a financial analysis. Development Impact: It is possible for Karachi Port to make efficient the existing cargo handling facilities and deal with the container cargo which is expected to rapidly increase in the near future, and to raise economic activities in Pakistan by implementing this project.									
Total M/M																				
Japan	67.4																			
Field	49.6																			
	17.8																			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHINICAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION																	
12. EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td></td> <td>142,298 (¥'000)</td> <td>134,266</td> </tr> </tbody> </table>		Total	Contracted		142,298 (¥'000)	134,266	Counterpart training (4 persons) Instruction on method of port planning and feasibility study	(1)											
	Total	Contracted																		
	142,298 (¥'000)	134,266																		

和名 コンテナ輸送導入計画

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

PROJECT SUMMARY (M/P)

Compiled	March 1986
Revised	March 1991

ASO PAK 101 /83

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Pakistan	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	National Transport Plan	Entire country			(Description)
3. SECTOR	Transportation/ General	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost Local Cost Foreign Cost		The master plan was incorporated into the transport sector of the 6th Five-Year Development Plan (1983-87). Feasibility studies were undertaken on major airports (Karachi, Lahore and Islamabad).
4. REFERENCE NO.		(US\$1,000) 1) 2)			
5. TYPE OF STUDY	M/P	3. MAJOR PROJECT(S) PROPOSED			
6. COUNTERPART AGENCY	Planning and Development Division	The study covered 1) roads and road transportation, 2) railways, 3) ports, 4) shipping, 5) aviation and airports, and 6) other transportation modes. Major proposals are as follows: - Improvement of database on transport and traffic - Improvement and expansion of MTRC - Comprehensive study on inland water ways - Introduction of containerization and related adjustments of transport modes			
7. OBJECTIVES OF STUDY	Formulation of a master plan for nation-wide transport development				
8. DATE OF S/W	Sep. 1981	4. CONDITIONS AND DEVELOPMENT IMPACTS			
9. CONSULTANT(S)	Mitsui Knowledge Industry	Development impacts: The comprehensive transportation development plan will contribute to the realization of the integrated and efficient transport system by reducing the diseconomy of sectionalism in development planning by mode of transportation. The most important point is to establish optimum mix of modes in development planning.			
10. STUDY TEAM	No. of Members 18 Period Dec. 1981 - May 1983 (18 months) Total M/M Japan Field			2. MAJOR REASONS FOR PRESENT STATUS	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total Contracted 326,297 (¥'000)	5. TECHINICAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION	(1)
		1. Participation of 3 counterparts in JICA training program 2. OJT			

和名 全国総合交通計画

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

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Pakistan	1. SITE OR AREA	Bara Bandah, Nowshera, Northwest Frontier Province	1. PRESENT STATUS	<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
2. NAME OF STUDY	Pakistan Railways Locomotives Manufacturing Factory Project	2. PROJECT COSTS	(US\$1=13.8Rs) Total Cost Local Cost Foreign Cost (US\$1,000) 1) 66,000 40,000 26,000 2) 3)		
3. SECTOR	Transportation/ Railway	3. CONTENTS OF MAJOR PROJECT(S)	Locomotive introduction plan--- 1,265 locomotives Domestic production plan 1st phase(to be completed in one year after the opening of the factory) --- Domestic production ratio, 20% 2nd phase(to be completed in 2 to 5 years after the opening) --- 30-35% 3rd phase(to be completed in about 10 years after the opening --- 50%	(Description)	It was decided to implement the project in accordance with the recommendations of the study team, and the work started with OECF loans. Feb.1984 OECF loan agreement on the locomotive plant (9,760 million yen) Oct.1985 OECF loan agreement on the purchase of locomotives (14,800 million yen) 1985 D/D completed 1989 Evaluation of tenders completed Feb.1990 Construction started Jun.1992 Construction to be completed
4. REFERENCE NO.		Implementation Period:			
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR		
6. COUNTERPART AGENCY	Ministry of Railways, the Government of Pakistan	Feasibility:			
7. OBJECTIVES OF STUDY	Transoprt demand forecast and calculation of the necessary number of locomotives, and F/S and basic design for constructing a locomotive manufacturing factory	Conditions and Development Impacts: Development Impacts Reinforcement of railway transport capacity will promote nationwide development and contribute towards activation of the economy in the Northwest Frontier region where infrastructure is lacking. A reduction in the use of foreign currency reserves is also expected because the supply of locomotives is at present entirely dependent on imports			
8. DATE OF S/W	Mar.1982			2. MAJOR REASONS FOR PRESENT STATUS	
9. CONSULTANT(S)	Japan Railway Technical Service				
10. STUDY TEAM	No. of Members 12 Period Mar.1982 - May 1983 (14 months) Total M/M 74.44 Japan 59.70 Field 14.74				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHINCAL TRANSFER	Two counterparts received training in Japan from JICA under the Colombo Plan.	3. PRINCIPAL SOURCES OF INFORMATION	(1)
12. EXPENDITURE	Total 168,180 (¥'000) Contracted 143,335				

PROJECT SUMMARY (M/P)

Compiled March 1990
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Pakistan	1. SITE OR AREA	Capital Area (the Province of Punjabi)	1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Water Resources Development Potential for the Metropolitan Area of Islamabad / Rawalpindi	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=17.0Rs) Total Cost Local Cost Foreign Cost 1) 970,588 2)	(Description) 1) OECF financed the conduction of water from Khanpur to Islamabad/Rawalpindi. 2) OECF loan agreement was signed in March 1989 on Simly Dam (5,750 million yen)	
3. SECTOR	Social Infrastructures/ Water Resource Development	3. MAJOR PROJECT(S) PROPOSED			
4. REFERENCE NO.		(1) Improvement of the control system for 3 existing dams (Rawal, Simly and Khanpur)			
5. TYPE OF STUDY	M/P	(2) Construction of 5 new dams in Haro, Dor and Soan Rivers			
6. COUNTERPART AGENCY	Capital Development Authority	(3) Establishment of the integral control system for above 8 dams for the effective use of water sources			
7. OBJECTIVES OF STUDY	Investigation into the Possibility of water resource development in capital area				
8. DATE OF S/W	Aug. 1986	4. CONDITIONS AND DEVELOPMENT IMPACTS	On an assumption of the population of 3,267,000 in the capital area in the final target year 2030, and water demand of 475.1 per capita, water source of 566.4 (1,000 sq.m) has to be required. In order to reserve 830 (1,000 cu.m) including 212 (1,000 cu.m) for the airport and industrial use, the execution of the above project is needed. For the planning of new dams and the establishment of the control system, further F/S is required.	2. MAJOR REASONS FOR PRESENT STATUS	
9. CONSULTANT(S)	Sanyu Consultants Inc. Yachiyo Engineering Co., Ltd			The establishment of an orderly development policy in the present developed capital area.	
10. STUDY TEAM	No. of Members 11 Period Nov. 1986 - Feb. 1988 (16 months) Total M/M 80.3 Japan 25.6 Field 54.7	5. TECHINICAL TRANSFER	(1) Explanation of various analysis methods (2) Training of an engineer in charge of geology in Japan (Analysis of aquifer by means of computer)	3. PRINCIPAL SOURCES OF INFORMATION	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Investigation of aquifer by electric research method and related survey			(1)	
12. EXPENDITURE	Total 227,291 (¥'000) Contracted 212,954				

ASO PAK 602 /87

Compiled	March 1990
Revised	March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Pakistan	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	National Transport Plan (follow-up)	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost Local Cost Foreign Cost	(Description) *Indus Highway Technical and Economic F/S* and D/D were conducted by a Pakistan consulting firm. Financed by OECF loan, Phase I construction is under way. Phase II construction is scheduled to begin before long. The JICA study (E/S) is being implemented on Lahore urban transport system.	
3. SECTOR	Transportation/ General	(US\$1,000) 1) 2)			
4. REFERENCE NO.		3. MAJOR PROJECT(S) PROPOSED			
5. TYPE OF STUDY	Other	Improvement of Indus Highway Study on domestic air transportation Basic study on electrification of realized Transit study for Lahore F/S on construction of container berth in Karachi Port			
6. COUNTERPART AGENCY	Planning Commission, Transport and Communications Section				
7. OBJECTIVES OF STUDY	Integral transportation plan				
8. DATE OF S/W	Nov. 1986	4. CONDITIONS AND DEVELOPMENT IMPACTS		2. MAJOR REASONS FOR PRESENT STATUS	
9. CONSULTANT(S)	Pacific Consultants International, ALMEC Corporation	Realistic objectives were set and recommendations were made taking into account the existing situation of the transportation sector, possibility of securing adequate budget, and capabilities to implement plans. This is the basic policy of the Seventh Five-year Development Plan (87/88 - 92/93)			
10. STUDY TEAM	No. of Members 15 Period Jan. 1987 - Mar. 1988 (15 months) Total M/M 60.66 Japan 29.62 Field 31.04				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHINICAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION	
12. EXPENDITURE	Total 285,090 (¥'000) Contracted 274,030	(1) OJT Computer use (2) Training in Japan: 2 persons (urban and regional transportation systems, role of government transportation offices)			
				(1)	

PROJECT SUMMARY (F/S)

Compiled March 1991
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Pakistan	1. SITE OR AREA	Islamabad City, and around the country	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	Establishment of the Second TV Channel for Education	2. PROJECT COSTS	US\$1=19.57P.Re=130Yen Total Cost Local Cost Foreign Cost (US\$1,000) 1) 130,955 81,904 49,050 2) 3)	(Description) The Exchange of Note for grant aid was signed on December 10, 1989. The project for the establishment of the second TV channel for education(PC-1 Form) was submitted to the Pakistan Government by PTV on February, 1990. And this PC-1 Form is under consideration.	
3. SECTOR	Communications & Broadcasting/ Broadcasting	3. CONTENTS OF MAJOR PROJECT(S)			
4. REFERENCE NO.		The establishment of the second TV channel for education in the Islamic Republic of Pakistan. -Construction of a TV programme production centre in Islamabad. -Supply and installation of broadcasting equipment for the above mentioned ETV Centre. -TV programme transmission facilities via satellite(consist of 2 up/down link earth stations and 15 TV ROs). -Supply and installation of ETV transmitter and antenna for each of 12 rebroadcast stations.			
5. TYPE OF STUDY	F/S	Implementation Period: 1990 - 1995			
6. COUNTERPART AGENCY	Pakistan Television Corporation Ltd.(PTV)	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 15.26%		
7. OBJECTIVES OF STUDY	Feasibility Study	Feasibility: Conditions and Development Impacts: The current literacy rate in Pakistan is about 30%. However, with rapid increase of population (estimated to double in 20 years), the rate is likely to decline without an effective mass education program. The establishment of the second TV channel for education is an important step to improve the level of literacy, and to launch mass education programs on family planning, child health, vocational training, etc.			
8. DATE OF S/W	Sep.1988			2. MAJOR REASONS FOR PRESENT STATUS	
9. CONSULTANT(S)	All Japan Radio & Television Engineering Services Co.,Ltd. Nippon Sogo Architects & Engineers			PC-1 Form was submitted to the Pakistan Government by PTV on February,1990, and is under consideration at this time.	
10. STUDY TEAM	No. of Members 14 Period Jan.1989 - Sep.1989 (9 months) Total M/M 49.76 Japan 23.04 Field 26.72			3. PRINCIPAL SOURCES OF INFORMATION	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER			
12. EXPENDITURE	Total 157,100 (¥'000) Contracted 159,273	Technical transfer are done on channel allocation, post production, procedure for programme production, audio dubbing and programme transmission via satellite.			

PROJECT SUMMARY (F/S)

Compiled March 1986
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Manila	1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Manila Rapid Transit Railway Line No.1	2. PROJECT COSTS	Total Cost 547,000 Local Cost 282,000 Foreign Cost (US\$1,000) 1) 2) 3)	(Description) The subway project was cancelled as follows. 1. According to the decision made by the President's Office in 1979, this project was started with a Belgian grant. The original plan was the surface railway transit. 2. Afterwards, the plan was changed to the elevated railway transit (LRT) and consequently required additional loans, including Loydo/Sumitomo, Swiss Transfer Credit, LRT Bond. 3. This LRT No.1 route replaced Subway No.1 route. Total length was about 14 km. 4. This LRT project was completed in December, 1985. Number of passengers : 250,000/day. 5. Construction committee for LRT No. 2 has been established within DOTC.	
3. SECTOR	Transportation/ Railway	3. CONTENTS OF MAJOR PROJECT(S)	Content : Route selection : Station building : Power supply facilities : Communications facilities : Signalling : Operation and Maintenance Length : 20km		
4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 20.4% Feasibility: No		
5. TYPE OF STUDY	F/S	Conditions and Development Impacts: Conditions: - Traffic demand forecast was made on the basis of person trip survey (1971) and mass transit service survey (1975). - survey area was Greater Manila Area including 4 cities and 15 towns.			
6. COUNTERPART AGENCY	Planning & Project Development office, Public Works Dept., Transport & Communication	Implementation Period: Jan.1980 - Jul.1987		2. MAJOR REASONS FOR PRESENT STATUS The alternative transit system was implemented.	
7. OBJECTIVES OF STUDY	Urban Public Transportation	Development impact: It is to meet future traffic demand which cannot be met by roads surface roads.			
8. DATE OF S/W	Jul.1974	5. TECHINICAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION (1)	
9. CONSULTANT(S)	Pacific Consultants International	-Technique for future traffic demand forecasting -Overseas training in Japan -Environmental assessment method			
10. STUDY TEAM	No. of Members 12 Period Apr.1975 - Jun.1976 (14 months) Total M/M 90.42 Japan 53.34 Field 37.08				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 178,914 (¥000) Contracted 242,970				

PROJECT SUMMARY (F/S)

Compiled March 1990
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Subic Bay in southwestern Luzon (100km from Manila)		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	Construction Plan of Subic Ship Repair Yard	2. PROJECT COSTS	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 66,530 29,370 37,160 2) 3)		
3. SECTOR	Transportation/ Marine Transportation & Ships	3. CONTENTS OF MAJOR PROJECT(S)	1) Desiltation and reclamation (1 million cu.m) 2) Revetment (-15m:250m, -3m:100m, -2m:360m, -1m:80m) 3) Wharf (-9m, 700m) 4) Dock yard (350m x 65m x 13m, concrete pile base, steel-reinforced concrete) 5) Quay and dolphin (25m x 160m, of which dolphin 20m x 25m, holding equipment) 6) Repair plant (2 main bldgs., 1 ancillary bldg., a set of equipment)		(Description) Sept.1977 OECF E/S loan agreement (265 million yen) Mar. 1979 OECF loan agreement (10,855 million yen)
4. REFERENCE NO.		Implementation Period: 1976 - 1980			
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	BIRR FIRR 25% Feasibility: Yes		
6. COUNTERPART AGENCY	Maritime Industry Authority	Conditions and Development Impacts: The capacity of the dock yard is determined on the basis of the projected cargo volume passing the western side of the Philippines toward Southeast Asia and Far East, and the Philippines fleet of 10,000GT. Development impacts: 1) Foreign exchange earnings and saving 2) Creation of employment (1,600 workers at the repair plant) 3) Increased markets for domestic materials			
7. OBJECTIVES OF STUDY	Feasibility analysis of a ship repair yard			2. MAJOR REASONS FOR PRESENT STATUS	
8. DATE OF S/W					
9. CONSULTANT(S)					
10. STUDY TEAM	No. of Members 6 Period Jan.1976 - Apr.1976 (3 months) Total M/M Japan Field				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHINICAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION	
12. EXPENDITURE	Total Contracted 13,226 (¥'000)				

PROJECT SUMMARY (F/S)

Compiled March 1986
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Bataan Shipyard (Manila Bay and Marivelez)		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	Pan-Philippine Highway Ferry Service Plan	2. PROJECT COSTS	(US\$1=292.8yen)		
3. SECTOR	Transportation/ Marine Transportation & Ships		Total Cost	Local Cost	(Description) Nov.1978 OECF loan agreement (3,000 million yen)
4. REFERENCE NO.					
5. TYPE OF STUDY	F/S				
6. COUNTERPART AGENCY	Dept.of Public Highway				
7. OBJECTIVES OF STUDY	Feasibility analysis of the construction car ferries				
8. DATE OF S/W					
9. CONSULTANT(S)					
10. STUDY TEAM	No. of Members 4 Period Jan.1976 - Jun.1976 (5 months) Total M/M Japan Field	3. CONTENTS OF MAJOR PROJECT(S)			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Implementation Period: 1978 - 1980			
12. EXPENDITURE	Total Contracted 8,550 (¥'000)	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR 1) 10% 2) 8%	FIRR	
		Feasibility: Yes			
		Conditions and Development Impacts: The IRR is 10% for the ferry to be built in Japan and operated in the San Bernardino Strait, and 8% for the ferry to be built in the Philippines and operated in the Surigao Strait. The project will provide efficient inter-island and coastal transport link and contribute to the transfer of shipbuilding technology.			
		5. TECHINICAL TRANSFER			
					2. MAJOR REASONS FOR PRESENT STATUS
					3. PRINCIPAL SOURCES OF INFORMATION

PROJECT SUMMARY (F/S)

Compiled March 1986
Revised March 1991

ASE PHI 305 /77

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"/> Processing <input type="checkbox"/> Delayed or Suspended <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)	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 37,000 27,000 2) 3)		
3. SECTOR	Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	- 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.		(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.		Implementation Period:	1978 - 1982		
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 49.9% Feasibility: Yes		
6. COUNTERPART AGENCY	Ministry of Public Highways Department of Public highways (DPH)	Conditions and Development Impacts: Conditions : 1) Subjected to right of way acquisition.			
7. OBJECTIVES OF STUDY	Technical and Economical F/S of C-3 and R-4 and its related road in Metro Manila, Philippines	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.		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.
8. DATE OF S/W	Mar. 1977	5. TECHINICAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION	
9. CONSULTANT(S)	Japan Overseas Consultants Co., Ltd. and Kokusai Kaihatsu Center	Used local consultants efficiently in air photography, soil and material survey and geotechnical survey.		(1)	
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				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 172,920 (¥000) Contracted 159,884				

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)

ASB PHI 304/77

Compiled March 1986
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Agno, Bicol and Cagayan Rivers / Luzon Island		1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Flood-Forecasting Systems in the Agno, Bicol and Cagayan River Basins	2. PROJECT COSTS	(US\$1=291Yen=7.39P) Total Cost 6,534 Local Cost 440 Foreign Cost 6,094 (US\$1,000) 1) 2) 3)		
3. SECTOR	Social Infrastructures/ River & Erosion Control	3. CONTENTS OF MAJOR PROJECT(S)	Flood Forecasting Center 1 Relay Station 4 Monitor Station 3 Telemeter Station 21 Subcenter 3 Transmission and Receiving Station 2		(Description) Date of completion of detail design : February 1979 Date of OECF loan agreement (¥17.74 billion) : January 1978 Date of completion : March 1982 Date of commencement of service : March 1982 Name of consultant after commencement of detail design : CYI Engineering Co., Ltd. Approved project cost ; Total project cost \$ 8.83 million (US\$1=¥ 240.-) Local Currency Portion \$ 1.45 million (US\$1=P8.-) Fund provided by Yen Loan \$ 7.38 million
4. REFERENCE NO.		Implementation Period: Jan.1979 - Jul.1982			
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR Feasibility: Yes		
6. COUNTERPART AGENCY	Weather Bureau P.A.G.A.S.A.	Conditions and Development Impacts: The prerequisite is simultaneous commencement of construction of the proposed flood forecasting and warning systems over the three rivers, Agno, Bicol and Cagayan. The merit of development is that by flood information services, it contributes toward effective execution of flood fighting activities, mitigation of loss of lives and personal and public assets and further, it also contributes to maintain stability of social economy and public welfare.			
7. OBJECTIVES OF STUDY	Establishment of flood forecasting and warning systems over the three river basins of the Luzon Island			2. MAJOR REASONS FOR PRESENT STATUS	
8. DATE OF S/W	Nov.1975			1. Magnitude of effects 2. Factor of continuation 3. High degree of priority 4. Strength of supporting organizations	
9. CONSULTANT(S)	CTI Engineering Co., Ltd.			3. PRINCIPAL SOURCES OF INFORMATION	
10. STUDY TEAM	No. of Members 15 Period Nov.1976 - Aug.1977 (9 months) Total M/M 15.7 Japan 6.3 Field 9.4	5. TECHINCAL TRANSFER		(1)	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Survey Radio wave propagation Test	1. JNT: During two years of construction period, total of 34 trainees were received for training. 2. Acceptance of trainees: Trainees consisting of 8 specializing hydrology and 11 telecommunication were received for training. 3. Local Consultant: CTIE entered into joint-venture with Basic Technology and Management.			
12. EXPENDITURE	Total 102,520 (¥'000) Contracted 39,133				

和名 Agno川、Bicol川、Cagayan川、における洪水予警報システムの総合計画設立のための調査

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

PROJECT SUMMARY (Other)

Compiled March 1990
Revised March 1991

ASE PHI 601/77

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS												
1. COUNTRY	Philippines	1. SITE OR AREA	Shipyard (27ha) in Marivelez		1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued											
2. NAME OF STUDY	Pan-Philippine Highway Ferry Service (follow-up)	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>10,870</td> <td>2,010</td> <td>8,860</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1)	10,870	2,010	8,860	2)		
	Total Cost	Local Cost	Foreign Cost													
1)	10,870	2,010	8,860													
2)																
3. SECTOR	Transportation/ Marine Transportation & Ships	3. MAJOR PROJECT(S) PROPOSED	(Description) Jan.1978 OECF loan agreement (3,000 million yen)													
4. REFERENCE NO.		Technical advice on the ferry construction which has been proposed by the F/S (FY 1976).														
5. TYPE OF STUDY	Other															
6. COUNTERPART AGENCY	Dept. of Public Highway, Maritime Industry Authority															
7. OBJECTIVES OF STUDY	Technical guidance on the construction of ferries	4. CONDITIONS AND DEVELOPMENT IMPACTS	2. MAJOR REASONS FOR PRESENT STATUS													
8. DATE OF S/W		-Efficient in-island and coastal transportation -Transfer of shipbuilding technology														
9. CONSULTANT(S)	Shipbuilding Research Centre of Japan	5. TECHINICAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION													
10. STUDY TEAM	No. of Members 4 Period Jul.1977 - Jul.1977 (1 months) Total M/M Japan Field															
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY																
12. EXPENDITURE	Total 4,554 (¥000) Contracted															

和名 フェリー計画アフターケア

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

PROJECT SUMMARY (M/P)

Compiled	March 1986
Revised	March 1991

ASE PHI 101 /78

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. PRSENT 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 1) 31,820 2)		
3. SECTOR	Social Infrastructures/ Water Resource Development	3. MAJOR PROJECT(S) PROPOSED	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.	(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.					
5. TYPE OF STUDY	M/P				
6. COUNTERPART AGENCY	Bureau of Public Works and Highways (BPWH)				
7. OBJECTIVES OF STUDY	Flood control				
8. DATE OF S/W	Mar.1977				
9. CONSULTANT(S)	Nippon Koei, Co., Ltd. CTI Engineering Co., Ltd.	4. CONDITIONS AND DEVELOPMENT IMPACTS	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	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	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 158,282 (¥'000) Contracted 89,719	5. TECHINICAL TRANSFER	1) OJT :	3. PRINCIPAL SOURCES OF INFORMATION	(1)

PROJECT SUMMARY (F/S)

Compiled March 1986
Revised March 1991

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"/> Processing <input type="checkbox"/> Delayed or Suspended <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 (US\$1,000) 1) 2) 3)	(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.	
3. SECTOR	Communications & Broadcasting/ Telecommunication	3. CONTENTS OF MAJOR PROJECT(S)			
4. REFERENCE NO.		1) Local exchanges (45), IPTSS (50)			
5. TYPE OF STUDY	F/S	2) Microwave network (20 hops, 732 knis)			
6. COUNTERPART AGENCY	Bureau of Telecommunications	3) VHF system (43), VHF system (30)			
7. OBJECTIVES OF STUDY	Feasibility study of the telecommunications Network Project in the Northern part of Luzon.	4) PCM system (4 sections), Multiplexing equipment (about 3100ch)			
8. DATE OF S/W	Dec. 1977	5) Trunk cable (about 457km)			
9. CONSULTANT(S)	NTC	6) Local cable (about 640km)			
10. STUDY TEAM	No. of Members 13 Period Feb. 1978 - Dec. 1978 (10 months) Total M/M Japan 1.3 Field	7) Telex exchange (2), Telex concentrator (7), Gentex station (32)			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Implementation Period: Jul. 1980 ~ 1982			
12. EXPENDITURE	Total 61,035 (¥000) Contracted 2,356	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 6.31%	2. MAJOR REASONS FOR PRESENT STATUS	
		Feasibility:		Effectiveness - large impact - high priority	
		Conditions and Development Impacts: Subscriber Toll Dialling Service (STD) is available from Ilocos and Cagayan areas.		3. PRINCIPAL SOURCES OF INFORMATION	
		5. TECHINICAL TRANSFER		(1)	
		On the Job Training was concluded for the counterpart staff.			

PROJECT SUMMARY (M/P)

Compiled March 1990
Revised

ASE PHI 102/79

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 Foreign Cost		
3. SECTOR	Development Plan/ Integrated Regional Development Plan	3. MAJOR PROJECT(S) PROPOSED	(Description) Based on the recommendations of the study, the irrigation and drainage development project, including the construction of rural roads and tertiary irrigation facilities are under implementation by the National Irrigation Administration (NIA) with OECF finance. June 1980 OECF E/S loan agreement (90 million yen) Sept. 1983 OECF loan agreement (4,600 million yen) The Bohol Agricultural Promotion Center was established by the Japanese grant (E/N in July 1983, 970 million yen).		
4. REFERENCE NO.					
5. TYPE OF STUDY	M/P				
6. COUNTERPART AGENCY	National Council on Integrated Area Development (NACIAD)				
7. OBJECTIVES OF STUDY	Formulation of a area development plan centering on the Wahig-Pamacsalan River basin				
8. DATE OF S/W	Aug. 1978	4. CONDITIONS AND DEVELOPMENT IMPACTS	2. MAJOR REASONS FOR PRESENT STATUS		
9. CONSULTANT(S)	Pacific Consultants International and Mitsubishi Research Institute, Inc.				
10. STUDY TEAM	No. of Members 14 Period Jun.1978 - Feb.1980 (8 months) Total M/M Japan Field	5. TECHINICAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 96,994 (¥'000) Contracted 85,175		(1)		

PROJECT SUMMARY (F/S)

Compiled	March 1986
Revised	March 1991

ASE PHI 308 /79

[illegible]

和名 マニラ・バター道路およびC-5、C-6道路建設計画

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

PROJECT SUMMARY (F/S)

Compiled March 1986
Revised March 1991

ASE PHI 307 /79

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="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Hospital Development Project	2. PROJECT COSTS	(US\$1=7.415P) Total Cost Local Cost Foreign Cost (US\$1,000) 1) 128,388 128,388 2) 3)		
3. SECTOR	Social Infrastructures/ Architecture & Housing	3. CONTENTS OF MAJOR PROJECT(S)	1) Medical centers: 4 locations, 900 beds 2) Regional hospitals: 2 locations, 500 beds 3) Provincial hospitals: 13 locations, 1,500 beds		(Description) Cancelled after the completion of the study.
4. REFERENCE NO.		Implementation Period: 6 years			
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS EIRR FIRR Feasibility: Yes			
6. COUNTERPART AGENCY	Ministry of Health	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			
7. OBJECTIVES OF STUDY		5. TECHINICAL TRANSFER		2. MAJOR REASONS FOR PRESENT STATUS Lack of funds.	
8. DATE OF S/W	Dec. 1978			3. PRINCIPAL SOURCES OF INFORMATION	
9. CONSULTANT(S)	Nihon Sekkei, Inc.			(1)	
10. STUDY TEAM	No. of Members 15 Period Mar. 1979 - Dec. 1980 (11 months) Total M/M 30.32 Japan 20.26 Field 10.06				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 82,114 (¥'000) Contracted 76,174				

和名 病院整備計画

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

PROJECT SUMMARY (M/P)

Compiled March 1986
Revised March 1991

ASE PHI 103/80

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE 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	Mayon Volcano Sabo and Flood Control Project	Surrounding area of Mayon volcano in the southeast of Luzon			
3. SECTOR	Social Infrastructures/ River & Erosion Control	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS (US\$1=7.5P)	Total Cost	Local Cost	Foreign Cost
4. REFERENCE NO.		(US\$1,000)	1) 200,900	128,500	72,400
5. TYPE OF STUDY	M/P	2)			
6. COUNTERPART AGENCY	Ministry of Public Works and Highways	3. MAJOR PROJECT(S) PROPOSED			
7. OBJECTIVES OF STUDY	Sabo and Flood Control plan for the Quinali (A) River The Quinali (B) River and the Yawa River	Construction of sabo facilities for sabo and flood control in the surrounding area of Mayon volcano and establishment of disaster prediction and warning system			
8. DATE OF S/W	Jun. 1978	Sabo : Sabo Dam 2nos. Consolidation dam 4nos. facilities Jetty 15nos. Spur Dike 43nos. Groyne 4nos. Consolidation 34nos			
9. CONSULTANT(S)	Nippon koei Co., Ltd.	Disaster Prediction and warning system: Telemetering Rainfall/ waterlevel gabying stations, Automatic warning system, warning cars, connection with the existing forecasting and warning system of Bicol river basin			
10. STUDY TEAM	No. of Members 23 Period Sep. 1979 - Mar. 1981 (9 months) Total M/M 72.38 Japan 40.36 Field 32.02	4. CONDITIONS AND DEVELOPMENT IMPACTS			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		This Sabo project will performed as the social works to insure the social stability of the region. This project will contribute to the insurance of better livelihood of people in the region. Beside the sabo project, river improvement, irrigation and disaster prediction and warning system shall be done as the one of the total measures for disaster.			
12. EXPENDITURE	Total 241,998 (¥000) Contracted 231,034	5. TECHINCAL TRANSFER 1) JOT : The lecture for Sabo technology was held in the local office 2) Acceptance of trainee: JICA accepted two trainees for one month including the lecture (for Sabo, hydrology, river and survey,) by the study team for 3 days. 3) Preparation of the report : The study team had discussion with the counterparts to prepared the reports. (especially Progress Report and Financial Report) 4) Donation of equipment and instruction : the supervision and guidance of ground surveying (by local contractors) was carried out for four month. (here surveying profit and class leveling of river)			
		2. MAJOR REASONS FOR PRESENT STATUS			
		3. PRINCIPAL SOURCES OF INFORMATION (1)			

和名 マヨン火山砂防基本計画

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

PROJECT SUMMARY (M/P)

ASE PHI 104/81

Compiled March 1986
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA			1. PRESENT STATUS <input type="checkbox"/> In Progress or In Use <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Davao City Urban Transport cum Land Use	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost Local Cost Foreign Cost		
3. SECTOR	Transportation/ Urban Transportation	3. MAJOR PROJECT(S) PROPOSED			(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.		1) Regional development 7 industrial estates; 6 commercial centers; 2 educational urban centers; 1 administrative center; 2 port expansion			
5. TYPE OF STUDY	M/P	2) Road 25 new trunk road sections; 40 improvement sections			
6. COUNTERPART AGENCY	Ministry of Public Works and Highways	3) Public transportation introduction of bus transport 4) Traffic control improvement of interchanges; signals; exclusive bus lanes			
7. OBJECTIVES OF STUDY	Formulation of a land use plan and a transportation master plan through 2000	4. CONDITIONS AND DEVELOPMENT IMPACTS			
8. DATE OF S/W	Mar. 1979			2. MAJOR REASONS FOR PRESENT STATUS	
9. CONSULTANT(S)	Nippon Engineering Consultatns 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			3. PRINCIPAL SOURCES OF INFORMATION	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic maps (scale: 1/10,000 and 1/5,000)	5. TECHINICAL TRANSFER		(1)	
12. EXPENDITURE	Total 326,652 (Y'000) Contracted 323,320	1) OJT on transport planning 2) Participation of counterparts in JICA training program 3) Employment of local consultants			

和名 ダバオ都市交通計画

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

Compiled	March 1986
Revised	March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE 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 of the Port of Irene	Port Irene at Casambalangan Bay		(Description)	Followed by F/S.
3. SECTOR	Transportation/ Port	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=7.95P) Total Cost Local Cost Foreign Cost (US\$1,000) 1) 73,685 2)		
4. REFERENCE NO.		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		
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	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.	2. MAJOR REASONS FOR PRESENT STATUS	
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	5. TECHINCAL 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.	3. PRINCIPAL SOURCES OF INFORMATION	(1)
12. EXPENDITURE	Total 135,996 (¥'000) Contracted 101,988				

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

Compiled	March 1986
Revised	March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA			1. PRSENT STATUS <input type="checkbox"/> Completed or in Progress <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Development Project of the Port of Irene	2. PROJECT COSTS	(US\$1=7.95P)		
			Total Cost	Local Cost Foreign Cost	
3. SECTOR	Transportation/ Port	(US\$1,000) 1) 12,941 2) 4,167 3) 8,774			(Description) D/D was completed in August 1986 with E/S loan from OECF (240 million yen), but construction was subsequently suspended.
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)			
5. TYPE OF STUDY	(M/P)+F/S	Short-term projects: Wharf for foreign trade (-10m) lberth (200m) Mooring basin (-10m) 750 thousand cu.m Transit shed (40mx90m) Road (width 10m) 1.6km			
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	Implementation Period: Oct.1983 - Dec.1986			
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan	4. FEASIBILITY AND ITS ASSUMPTIONS			
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	EIRR 25.2% FIRR 5.2%			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological and oceanographic survey	Feasibility: Yes			
12. EXPENDITURE	Total 135,996 (¥'000) Contracted 101,988	Conditions and Development Impacts: Conditions: Cargo throughput projection (1987) for the short-term plan are based on the development prospects of Cagayan Province. The projection for the long-term plan (2000) is based on the development prospects of the northeastern region of Luzon Island. Impacts: The port will function as one of the development centers for the Cagayan Valley area and contribute to the increase of employment and income among the local population.			
		5. TECHINCAL TRANSFER		2. MAJOR REASONS FOR PRESENT STATUS	
		OJT and JICA training for counterparts		3. PRINCIPAL SOURCES OF INFORMATION	
				(1)	

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

PROJECT SUMMARY (F/S)

ASE PHI 309/81

Compled March 1986
Revised March 1991

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="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	Dalton Pass Tunnel Project	2. PROJECT COSTS	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 2) 3)		
3. SECTOR	Transportation/ Road	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.		
4. REFERENCE NO.		Implementation Period:	1983 - 1990		(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.
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 17.8% Feasibility: Yes		
6. COUNTERPART AGENCY	Ministry of Public Highways	Conditions and Development Impacts:	As an assumption, the forecasted daily traffic in 2015 should be 7910 vehicles per day and a ventilation of jet-fan type, which will be at the first stage applied, shall be changed to the shaft type. The electric power for tunnel facilities shall be secured from the Gabat Substation which would be completed in 1982. The development benefits involve : to ensure the traffic in the Dalton Pass Region, and reduction of travel time and the price increase due to cut off of roads at Dalton Pass which causes a detour through Route No. 3 connecting with Metro Manila Region.		
7. OBJECTIVES OF STUDY	Construction of Tunnel and Planning of Road Disaster Prevention	5. TECHINICAL TRANSFER	OJT to counterparts on traffic survey and data analysis.		
8. DATE OF S/W	Feb. 1981	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		2. MAJOR REASONS FOR PRESENT STATUS
9. CONSULTANT(S)	Katahira & Engineers	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geotechnical Investigations Traffic surveys including OD surveys		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.
12. EXPENDITURE	Total 217,540 (¥'000) Contracted 215,452				3. PRINCIPAL SOURCES OF INFORMATION
					(1)

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 PHI 312/81

Compiled March 1986
Revised March 1991

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"/> Processing <input type="checkbox"/> Delayed or Suspended <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 92,200 Local Cost 63,000 Foreign Cost (US\$1,000) 1) 2) 3)		
3. SECTOR	Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	Improvement of roads, 17.8km Construction of roads, 20.7km		(Description) 1. Detailed Design Work of Paranaque-Sucat 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.		Implementation Period:	1985 - 1994		
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR 40% FIRR Feasibility: Yes		
6. COUNTERPART AGENCY	Department of Public works and Highways	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.			
7. OBJECTIVES OF STUDY	Road Planning	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		2. MAJOR REASONS FOR PRESENT STATUS
8. DATE OF S/W	Dec. 1980	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey, soil survey, Analysis of samples		Paranaque-Sucat Road: Since this was considered very urgent, DPWH started by its own fund Other roads: For administrative and economical reasons, DPWH is expecting loan from OECF or IBRD
9. CONSULTANT(S)	Pacific Consultants International	12. EXPENDITURE	Total 333,815 (Y'000) Contracted 166,210		3. PRINCIPAL SOURCES OF INFORMATION
		5. TECHINICAL TRANSFER	OJT and JICA training program for counterparts		(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)

Compiled March 1990
Revised March 1991

ASE PHI 311/81

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		
2. NAME OF STUDY	Pampanga Delta Development Project	2. PROJECT COSTS	(US\$1=8.2 pesos)		
3. SECTOR	Social Infrastructures/ River & Erosion Control		Total Cost	Local Cost	Foreign Cost
4. REFERENCE NO.			1) 167,073		73,170
5. TYPE OF STUDY	F/S		2) 76,829		30,487
6. COUNTERPART AGENCY	Ministry of Public Works and Highways and National Irrigation Administration	3. CONTENTS OF MAJOR PROJECT(S)			
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			
8. DATE OF S/W	May 1980	Implementation Period:	1) 10 years 2) 7 years		
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Nikken Consultants, Inc.	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	
10. STUDY TEAM	No. of Members 20 Period Jul.1980 - Feb.1982 (7 months) Total M/M Japan Field	Feasibility: Yes	1) 10.8%	2) 15.4%	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic mapping	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.		
12. EXPENDITURE	Total 435,309 (¥'000) Contracted	5. TECHINCAL TRANSFER			
		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)	May 1986 OECF E/S loan agreement (705 million yen) 1990 D/D completed Jan.1991 Tenders to be invited		
		2. MAJOR REASONS FOR PRESENT STATUS			
		3. PRINCIPAL SOURCES OF INFORMATION			

PROJECT SUMMARY (F/S)

ASE PHI 310/81

Compiled March 1990
Revised March 1991

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	<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	Rural Telecommunications Project in Regions III (Central Luzon) and IV (Southern Tagalog)	2. PROJECT COSTS	(US\$1=215Yen=28.3P) Total Cost 82,670 Local Cost 8,470 Foreign Cost 74,200 (US\$1,000) 1) 2) 3)	(Description) 1987 Dec. OECF E/S loan agreement (707 million yen) 1988 Nov. Contract signed with a consulting firm. 1990 Feb. OECF loan agreement (21,752 million yen) 1991 Jan. Tenders evaluation	
3. SECTOR	Communications & Broadcasting/ Telecommunication	3. CONTENTS OF MAJOR PROJECT(S)			
4. REFERENCE NO.		- 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			
5. TYPE OF STUDY	F/S				
6. COUNTERPART AGENCY	Bureau of Telecommunications	Implementation Period:			
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		
8. DATE OF S/W	Apr. 1980	Feasibility: Yes			
9. CONSULTANT(S)	NTC	Conditions and Development Impacts:			
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	(1) To rehabilitate the existing old telecommunicating facilities at the objected areas. (2) To improve the telecommunications services at the objected areas.		2. MAJOR REASONS FOR PRESENT STATUS	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY				(1) Effectiveness (2) High priority	
12. EXPENDITURE	Total 46,007 (¥000) Contracted 15,139	5. TECHINICAL TRANSFER	(1) Trainee acceptance; 2 counterparts invited to Japan (2) On-the-Job-Training for counterparts	3. PRINCIPAL SOURCES OF INFORMATION	
				(1)	

和名 中部ルソン電気通信網整備計画

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

PROJECT SUMMARY (M/P + F/S)

Compiled March 1986
Revised March 1991

ASE PHI 202A /82

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 1) 15,830 6,570 2)		
3. SECTOR	Public Utilities/ Water Supply	3. MAJOR PROJECT(S) PROPOSED	(Description) Followed by F/S.		
4. REFERENCE NO.		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.			
5. TYPE OF STUDY	M/P+ (F/S)				
6. COUNTERPART AGENCY	Local Water Utilities Administration				
7. OBJECTIVES OF STUDY	Planning on the water supply expansion plan up to the year 2010 and selection of emergency project	4. CONDITIONS AND DEVELOPMENT IMPACTS	2. MAJOR REASONS FOR PRESENT STATUS		
8. DATE OF S/W	Mar. 1981	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.			
9. CONSULTANT(S)	Nihon Suido Consultants Co., Ltd.				
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	5. TECHINICAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		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.			
12. EXPENDITURE	Total 182,931 (Y'000) Contracted 180,464			(1)	

和名 地方都市上水道計画

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

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					
3. SECTOR	Public Utilities/ Water Supply	2. PROJECT COSTS	(US\$1=7.80P)			
4. REFERENCE NO.			Total Cost	Local Cost	Foreign Cost	
5. TYPE OF STUDY	(M/P)+F/S	1)	15,830	6,570		
6. COUNTERPART AGENCY	Local Water Utilities Administration	2)				
7. OBJECTIVES OF STUDY	F/S of the emergency project based on the master plan	3)				
8. DATE OF S/W	Mar.1981	3. CONTENTS OF MAJOR PROJECT(S)	- Laoag area : water intake conduits, deep wells, transmission and distribution pipes, etc. (4,130 cu.m/day)			
9. CONSULTANT(S)	Nihon Suido Consultants Co., Ltd.		- Legaspi area : spring water, transmission and distribution pipes, etc. (6,480 cu.m/day)			
10. STUDY TEAM	No. of Members 9 Period Jun.1981 - Jun.1982 (12 months) Total M/W 79.95 Japan 34.72 Field 45.23		- Daraga town : spring water, transmission and distribution pipes, etc. (4,320 cu.m/day)			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY			- Tagbilaran city : deep wells, distribution reservoirs, distribution pipes, etc. (1,700 cu.m/day)			
12. EXPENDITURE	Total 182,931 (¥'000) Contracted 180,464		- Total water quantity: 16,630 cu.m/day (Planned development quantity)			
		Implementation Period:	Jan.1984 - Dec.1986			
		4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR			
		Feasibility: Yes				
		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.			
		5. TECHINCAL 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.			
		</				

PROJECT SUMMARY (Basic Study)

Compiled	March 1990
Revised	March 1991

ASE PHI 501 /82

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE 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	Topographic Mapping Project for Cagayan Valley	Northern part of Luzon Island (from Ilagan of Isabela Prov. to Aparri of Cagayan Prov.; 11,000 sq.km) 2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS <table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Total Cost	Local Cost	Foreign Cost	1)				2)				(Description)		
	Total Cost	Local Cost	Foreign Cost														
1)																	
2)																	
3. SECTOR	Social Infrastructures/ Survey & Mapping	3. MAJOR PROJECT(S) PROPOSED															
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-triangulation and orthoscopic photos															
7. OBJECTIVES OF STUDY		4th year: aero-triangulation, topographic original maps, ortho-photo maps															
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) Total M/M Japan Field																
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY																	
12. EXPENDITURE	Total 931,676 (¥000) Contracted 803,651	5. TECHINICAL TRANSFER	2. MAJOR REASONS FOR PRESENT STATUS														
			3. PRINCIPAL SOURCES OF INFORMATION														

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 (Other)

ASE PHI 602/82

Compiled March 1990
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Surrounding area of Mayor Volcano in the southeast 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	Mayon Volcano Sabo and Flood Control Project (Re-Study)	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=8P) Total Cost Local Cost Foreign Cost 1) 20,190 14,690 5,500 2)		
3. SECTOR	Social Infrastructures/ River & Erosion Control	3. MAJOR PROJECT(S) PROPOSED	Training Levee, Slur Di, Consolidation Dam and Sabo Dam 1st stage Sabo works Quirangay River, Masarawag River, Nasisi River, Anuling River (1), Anuling River (2), Budiao River, Pawa-Burabad River 1st stage Disaster Prediction and Warning System		(Description) The following construction works in the southern slope included in the M/P of 1980 were carried out by local fund. Quirangay River : Training Levee No.2 Anuling River : Training Levee No.2, NO.3 and No.4 Pawa-Burabad River : Training Levee No.5 and No.6 Afterward Mayor Volcano erupted and the huge debris flow (10 million cu.m) occurred in 1984. The finance for the construction including the eastern slope and the emergency works was requested to OECF (in 1989, the 16th loan). But the application was turned down.
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	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.		
5. TYPE OF STUDY	Other	5. TECHINICAL TRANSFER	(1) The lecture of sabo technology for the counterparts was held in the local office. (2) The training of sabo, hydrology, river engineering and surveying was carried out for the counterparts.		2. MAJOR REASONS FOR PRESENT STATUS
6. COUNTERPART AGENCY	Ministry of Public Works and Highways				3. PRINCIPAL SOURCES OF INFORMATION
7. OBJECTIVES OF STUDY	Sabo plan for the area of southern slope of Mayor Volcano based on the disaster due to typhoon Daling in 1981				(1)
8. DATE OF S/W	Feb. 1982				
9. CONSULTANT(S)	Nippon Koei Co., Ltd.				
10. STUDY TEAM	No. of Members 12 Period Jun. 1982 - Mar. 1983 (10 months) Total M/M 56.63 Japan 33.03 Field 23.06				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 144,352 (¥'000) Contracted 138,421				

和名 マヨン火山砂防計画 (再調査)

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

PROJECT SUMMARY (F/S)

ASE PHI 314 /83

Compiled	March 1990
Revised	March 1991

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. PRSENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input checked="" type="radio"/> Processing
2. NAME OF STUDY	Metro Manila Outer Major Roads Project (Northern Package)	2. PROJECT COSTS	(US\$1=14.0pesos) Total Cost Local Cost Foreign Cost 77,697 44,214 33,482 (US\$1,000) 1) 2) 3)		
3. SECTOR	Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	Increase of lanes to alleviate traffic congestions 1984 - 1990 32 lanes 1993 - 1996 48 lanes	(Description)	
4. REFERENCE NO.					
5. TYPE OF STUDY	F/S			1988 Jan. Included in OECF E/S package loan agreement (2,000 million yen) 1990 Nov. D/D on C-5 Road being implemented	
6. COUNTERPART AGENCY	Ministry of Public Works and Highways				
7. OBJECTIVES OF STUDY					
8. DATE OF S/W	Feb.1982	Implementation Period:	1984 - 1996		
9. CONSULTANT(S)	Nippon Engineering Consultants.	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 46.3%		
		Feasibility: Yes			
		Conditions and Development Impacts: The project will alleviate the serious traffic congestion and contribute to the more orderly urban development in Metro Manila.			
10. STUDY TEAM	No. of Members 10 Period Jun.1982 - Jun.1983 (12 months) Total M/M Japan Field			2. MAJOR REASONS FOR PRESENT STATUS	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 161,996 (¥'000) Contracted 156,087	5. TECHINCAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION	

Compiled	March 1988
Revised	March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Northern Luzon (Region I)		1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Development Project of the Port of San Fernando	2. PROJECT COSTS	(US\$1=14P) Total Cost Local Cost Foreign Cost (US\$1,000) 1) 18,400 7,345 2) 3)		
3. SECTOR	Transportation/ Port	3. CONTENTS OF MAJOR PROJECT(S)	Wharf (Pier -10 ~ -14m) 900m Dredging 4,500sq.m Transit Sheds 32,000sq.m Open Storage Yard 12,000sq.m Roads 12,000sq.m		(Description) - Suspension after completion of F/S. - There is a possibility to revive this project if the state of finance is improved.
4. REFERENCE NO.		Implementation Period: Jan.1987 - Dec.1989			
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 22.9% 4.1% Feasibility: Yes		
6. COUNTERPART AGENCY	Philippine Ports Authority	Conditions and Development Impacts: Estimated cargo volume in 1990 and 2000 are: 1990 1,900 thousand tonnes 2000 3,700 thousand tonnes The development of this promotes the port activities and contributes to the regional development in and around Region I, as there is no large scale port in this region.			
7. OBJECTIVES OF STUDY	Preparation of Master Plan (Target year 2000) and Short-term Development Plan (Target year 1990).			2. MAJOR REASONS FOR PRESENT STATUS (1) Shortage of finance (2) Alternation from the Marcos Government to the new Government	
8. DATE OF S/W	Oct.1982			3. PRINCIPAL SOURCES OF INFORMATION (1)	
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan				
10. STUDY TEAM	No. of Members 9 Period Feb.1983 - Mar.1984 (14 months) Total M/M 58.77 Japan 38.4 Field 20.37				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Natural Conditions Survey	5. TECHINICAL TRANSFER			
12. EXPENDITURE	Total 128,037 (¥'000) Contracted 129,003	Counterpart training for method of feasibility study to two counterparts			

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

PROJECT SUMMARY (M/P)

Compiled	March 1988
Revised	March 1991

ASE PHI 105 /84

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA		1. PRSENT 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 1) 615,000 2)	(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.	
3. SECTOR	Social Infrastructures/ Urban Planning & Land Development	3. MAJOR PROJECT(S) PROPOSED			
4. REFERENCE NO.		(1) Improvement of transport conditions (2) Development of regional natural resources (fishery)			
5. TYPE OF STUDY	M/P				
6. COUNTERPART AGENCY	Human Settlement Development Corporation				
7. OBJECTIVES OF STUDY	Master plan for the urban development in Infanta-Real area upon establishing the development strategy and target.				
8. DATE OF S/W	Apr. 1983	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.		
9. CONSULTANT(S)	Yachiyo Engineering Co., Ltd.			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				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHINCAL TRANSFER	(1) Acceptance of trainees: One <1> counterpart (2 months) (2) Use of Local consultant: Social, economic and financial analysis	3. PRINCIPAL SOURCES OF INFORMATION (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)

ASE PHI 317/84

Compiled March 1988
Revised March 1991

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 - Aritao (Northern Luzon) 2) Mahaplag - Sogod (Leyte) 3) Rosario - Baguio (Northern Luzon)		(Description) 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.	
3. SECTOR	Transportation/ Road	2. PROJECT COSTS	(US\$1=234.3Yen)		
4. REFERENCE NO.		(US\$1,000) 1) Total Cost 26,300 2) Local Cost 10,200 3) Foreign Cost			
5. TYPE OF STUDY	F/S	3. CONTENTS OF MAJOR PROJECT(S)			
6. COUNTERPART AGENCY	Ministry of Public Works and Highways	Protection of Shoulder slope: 1) Dalton Pass section 77 km 2) Mahaplag - Sogod 37 km 3) Kenon Road 34 km Total 148 km			
7. OBJECTIVES OF STUDY	Formulation of disaster prevention measures for 3 selected sections of national highways	Implementation Period:	Jul. 1987 - Jun. 1990		
8. DATE OF S/W	Feb. 1983	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR 1) 18.7% 2) 14.4% 3) 16.6% FIRR Feasibility: Yes		
9. CONSULTANT(S)	Nippon Engineering Consultants Co., Ltd. Katahira & Engineers International	Conditions and Development Impacts: Conditions: traffic projections for 1990, 2000 and 2010; traffic stoppage due to road disasters are 16 days/year for Dalton Pass, 60 days for Mahaplag, and 18 days for Kenon. 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	
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			- large impact - high priority	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological and topographic surveys	5. TECHINICAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION	
12. EXPENDITURE	Total 183,661 (¥'000) Contracted 160,257	OJT and JICA training program for counterparts		(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	Covering the whole country		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 Meteorological Telecommunication System	2. PROJECT COSTS	(US\$1=238Yen)		
3. SECTOR	Transportation/ Meteorology & Seismology		Total Cost	Local Cost	Foreign Cost
4. REFERENCE NO.			1) 18,626	2,206	16,421
5. TYPE OF STUDY	F/S		2) (US\$1,000)		
6. COUNTERPART AGENCY	Philippine Atmospheric Geophysical and Astronomical Services Adm. Ministry of Defence (at F/S time)	3. CONTENTS OF MAJOR PROJECT(S)	Contents - Telecom. facilities (1) Main Trunk Line: About 950km between Luzon Island and Mindanao Island (2) Branch Lines: Lines connecting each station - Building and antenna of each relay station		
7. OBJECTIVES OF STUDY	Establishment of Meteorological Telecommunication System	Implementation Period:	Aug.1988 - Feb.1995		
8. DATE OF S/W	Nov.1982	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	
9. CONSULTANT(S)	Japan Weather Association	Feasibility:	Yes		
10. STUDY TEAM	No. of Members 13 Period Aug.1983 - Sep.1984 (14 months) Total M/M 80 Japan 33 Field 47	Conditions and Development Impacts:	Conditions - Benefit is calculated on condition that rate of natural disaster decrease is 5%. - Completion of the Project is in 1995. - Eight (8) years is required for acquisition of technological knowledge by the staff concerned. - Replacement of equipment to be made every 10 years. Development Impacts - Mitigation of meteorological disasters - Improvement of safe operation of aircraft and ships - Improvement of agricultural production development of related sectors (tourism, commerce, industry, etc.)		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHINICAL TRANSFER	Technical guidance relating to telecommunication, data exchange system and observation system has been given to two (2) F/S counterpart officials.		
12. EXPENDITURE	Total 261,238 (¥000) Contracted 209,692	2. MAJOR REASONS FOR PRESENT STATUS		(1) Greatness of project impact - Mitigation of agricultural disasters - Economic impact resulting from mitigation of transportation disasters (2) High priority of the Project	
		3. PRINCIPAL SOURCES OF INFORMATION		(1) (4)	

PROJECT SUMMARY (F/S)

ASE PHI 316/84

Compiled March 1988
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Upstream reach of Agno River, middle Luzon island		1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> 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 Foreign Cost (US\$1,000) 1) 1,200,000 2) 3)		
3. SECTOR	Social Infrastructures/ Water Resource Development	3. CONTENTS OF MAJOR PROJECT(S)	structure Scale Main Dam (filldam) Gross storage 990 million cu.m Effective storage 670 million cu.m Installed Capacity 390MW		(Description) Suspended after F/S. Note: A hydroelectric power project is required in view of the large load demand in Luzon Island. The existing nuclear power station is abandoned to operate. Although the Project is not listed by NPC, the Project is likely to be adopted if NPC decides to implement new projects.
4. REFERENCE NO.		Implementation Period:			
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR Feasibility: Yes		
6. COUNTERPART AGENCY	National Power Corporation (NPC)	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.			
7. OBJECTIVES OF STUDY	- Review of hydrological study - Evaluation on quality of irrigation water	5. TECHINICAL TRANSFER		2. MAJOR REASONS FOR PRESENT STATUS	
8. DATE OF S/W	Oct.1983			(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.	
9. CONSULTANT(S)	Nippon Koei Co., Ltd. (Nikkou Tankai)			3. PRINCIPAL SOURCES OF INFORMATION	
10. STUDY TEAM	No. of Members 6 Period Nov.1983 - Mar.1985 (17 months) Total M/M 38.35 Japan 12.69 Field 25.66			(1)	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 117,374 (¥'000) Contracted 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			

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 (M/P)

Compiled	March 1988
Revised	March 1991

ASE PHI 107 /85

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE 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. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 40,212 2)	(Description) The study has been undertaken in close coordination with counterparts. Therefore, a part of the study results on rerouting of public transportation and facilities improvements have been implemented. Public transportation route management system based on PC and database has been officially introduced to the Ministry's administrative system. However, recommendations on the mode interchange areas have not been properly followed up by the Government.	
3. SECTOR	Transportation/ Urban Transportation	3. MAJOR PROJECT(S) PROPOSED			
4. REFERENCE NO.		- Preparation of public transportation rerouting plans and associated facilities improvement plans - Preparation of mode interchange area development plans for the selected 5 areas - Formulation of medium-term transportation improvement policy			
5. TYPE OF STUDY	M/P				
6. COUNTERPART AGENCY	Ministry of Transportation and Communications				
7. OBJECTIVES OF STUDY	- Transportation rerouting plan - Transportation development policy				
8. DATE OF S/W	1) Jul. 1982 2) Mar. 1984	4. CONDITIONS AND DEVELOPMENT IMPACTS			
9. CONSULTANT(S)	ALMEC Corporation	Conditions - Strengthening of bus and jeepney route management capabilities - Provision of financial support or incentives by the Government for transport terminal development Development Impacts - Rationalization of public transportation operation through proper functional-split among LRT, bus and jeepney. - Encouragement of urban centre and increase in transportation service level through the development and reorganization of mode interchange areas.		2. MAJOR REASONS FOR PRESENT STATUS	
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				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	transport surveys and systems analysis	5. TECHINICAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION	
12. EXPENDITURE	Total 490,159 (¥'000) Contracted 468,192	(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		(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)

Compiled	March 1988
Revised	March 1991

ASE PHI 106 /85

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. PRSENT 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) Total Cost Local Cost Foreign Cost 1) 323,000 195,000 128,000 2)		
3. SECTOR	Social Infrastructures/ River & Erosion Control	3. MAJOR PROJECT(S) PROPOSED	(1) Flood control (2) Irrigation (3) Power generation (4) Municipal and industrial water supply to Roxas City	(Description)	Until now, this project has been postponed because this is rural project. But there is a possibility that some feasibility study will be implemented for some projects recommended in the master plan.
4. REFERENCE NO.					
5. TYPE OF STUDY	M/P				
6. COUNTERPART AGENCY	Ministry of Public Works and Highways (Department of Public Works and Highways)				
7. OBJECTIVES OF STUDY	Flood control				
8. DATE OF S/W	Dec. 1982	4. CONDITIONS AND DEVELOPMENT IMPACTS	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.		
9. CONSULTANT(S)	Nippon Koei Co., Ltd.				
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			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.
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		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.	3. PRINCIPAL SOURCES OF INFORMATION	(1)
12. EXPENDITURE	Total 414,927 (¥'000) Contracted 241,418				

和名 バナイ河流域洪水防御基本計画

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

Compiled	March 1988
Revised	March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE 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		South-west of Luzon		(Description)	
Development Project on the Port of Batangas		2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=19P) Total Cost Local Cost Foreign Cost	Followed by F/S.	
3. SECTOR		(US\$1,000) 1) 76,316			
Transportation/ Port		2)			
4. REFERENCE NO.		3. MAJOR PROJECT(S) PROPOSED			
5. TYPE OF STUDY	M/P+(F/S)	(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				
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	4. CONDITIONS AND DEVELOPMENT IMPACTS			
9. CONSULTANT(S)		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.			
Overseas Coastal Area Development Institute of Japan					
10. STUDY TEAM				2. MAJOR REASONS FOR PRESENT STATUS	
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		5. TECHINICAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION	
Total 181,400 (¥000)		Counterpart training (3 persons) -Feasibility study method -Field survey of ports similar to Batangas port		(1)	
Contracted 178,642					

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

PROJECT SUMMARY (M/P + F/S)

ASE PHI 203B/85

Compiled March 1988
Revised March 1991

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) Total Cost 13,631 Local Cost 5,684 Foreign Cost 7,947 (US\$1,000) 1) 2) 3)		
3. SECTOR	Transportation/ Port	3. CONTENTS OF MAJOR PROJECT(S)	Wharf (-10m) 185 m " (-5m) 105 m " (-5m, Pier) 105 m " (-4.5m) 155 m Dredging 430,000 cu.m		(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).
4. REFERENCE NO.		Implementation Period:	Jun.1986 - Dec.1989		
5. TYPE OF STUDY	(M/P)+F/S	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR 35% FIRR 0.5% Feasibility: Yes		
6. COUNTERPART AGENCY	Philippine Port Authority	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		
7. OBJECTIVES OF STUDY	Preparation of Master Plan (target year 2000) and short-term development plan (target year 1990)	10. STUDY TEAM			2. MAJOR REASONS FOR PRESENT STATUS
8. DATE OF S/W	Jun.1984	No. of Members 10 Period Sep.1984 - Dec.1985 (16 months)			
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan	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	5. TECHINICAL TRANSFER	Counterpart training (3 persons) -Feasibility study method -Field survey of ports similar to Batangas port		3. PRINCIPAL SOURCES OF INFORMATION
12. EXPENDITURE	Total 181,400 (¥000) Contracted 178,642				(1)

和名 バタングス港整備計画

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

PROJECT SUMMARY (F/S)

ASE PHI 318/85

Compiled March 1988
Revised March 1991

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)	(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.	
3. SECTOR	Transportation/ Road	2. PROJECT COSTS	Total Cost 3,725 Local Cost 1,438 Foreign Cost		
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)			
5. TYPE OF STUDY	F/S	Protection of shoulder slope: Lucena - Calawag 95.7 km Allen - Calbayog 72.9 km Nagilian Road 47.2 km Total 215.8 km			
6. COUNTERPART AGENCY	Ministry of Public Works and Highways	Implementation Period:	Jan.1990 - Aug.1991	2. MAJOR REASONS FOR PRESENT STATUS - large impact - high priority	
7. OBJECTIVES OF STUDY	Formulation of disaster prevention measures for 3 selected sections of national highways	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR 1)16.0% FIRR 2)14.4% Feasibility: Yes 3)15.4%		
8. DATE OF S/W	Aug.1984	Conditions and Development Impacts:			
9. CONSULTANT(S)	Nippon Engineering Consultants Co., Ltd. Katahira & Engineers International	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			
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	5. TECHNICAL TRANSFER	OJT and JICA training program for counterparts	3. PRINCIPAL SOURCES OF INFORMATION (1)	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological and topographic surveys				
12. EXPENDITURE	Total 97,428 (¥'000) Contracted 93,173				

PROJECT SUMMARY (M/P + F/S)

Compiled March 1990
Revised March 1991

ASE PHI 204A/86

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)	1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
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 1) 43,678 18,573 2)	(Description) Followed by F/S.	
3. SECTOR	Public Utilities/ Water Supply	3. MAJOR PROJECT(S) PROPOSED	Construction of groundwater pumping stations, transmission pipelines, distribution ponds and distribution pipelines.		
4. REFERENCE NO.					
5. TYPE OF STUDY	M/P+(F/S)				
6. COUNTERPART AGENCY	Local Water Utilities Administration (LWUA)				
7. OBJECTIVES OF STUDY	Formulation of a master plan for water supply in seven local cities and towns			2. MAJOR REASONS FOR PRESENT STATUS	
8. DATE OF S/W	Oct. 1985	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		
9. CONSULTANT(S)	Nippon Jogesuido Sekkei Co.				
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				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Water quality analysis	5. TECHINICAL TRANSFER			
12. EXPENDITURE	Total 163,499 (¥'000) Contracted 149,175			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)

PROJECT SUMMARY (M/P + F/S)

Compiled March 1990
Revised March 1991

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 (Cabyao, 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 COSTS	(US\$1=20.50P)		
3. SECTOR	Public Utilities/ Water Supply		Total Cost	Local Cost	Foreign Cost
4. REFERENCE NO.			(US\$1,000)	1) 11,971	5,078
5. TYPE OF STUDY	(M/P)+F/S		2) 11,483	5,343	
6. COUNTERPART AGENCY	Local Water Utilities Administration (LWUA)		3) 16,380	6,662	
7. OBJECTIVES OF STUDY		3. CONTENTS OF MAJOR PROJECT(S)	The project consists of tube wells, transmission and distribution pipelines, and distribution ponds. The costs for each city/town group are as follows. 1) Angeles 11,971 (US\$1,000) 2) Dagupan 11,483 3) Cabyao - Santa Rosa - Biniyan 16,380 4) Bayombong - Sorano 3,844		
8. DATE OF S/W	Oct. 1985	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR	FIRR	(Description) D/D has been completed for Dagupan, and Bayombong - Sorano. Jan. 1988 OECF loan agreement (1,272 million yen) 1990 Under construction With regard to Angeles, D/D will be conducted with the 17th OECF finance (E/S loan).
9. CONSULTANT(S)	Nippon Jogesuido Sekkei Co.	Feasibility:	13.7%	17.6%	
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	Conditions and Development Impacts:	13.1%	6.0%	2. MAJOR REASONS FOR PRESENT STATUS - Development of water supply systems has high priority among BHN-related projects. - Effectiveness of LWUA
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		EIRR:	13.4%	12.3%	
12. EXPENDITURE	Total 163,499 (¥000) Contracted 149,175	FIRR:	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. Increase of land price, improvement of health and economic value of water are taken into account. The shadow pricing factor is 1.3 for foreign exchange, 0.5 for the premium of unskilled labor, and 1.0 for other components. Note: EIRR and FIRR for Bayombong - Sorano are 13.5% and 4.3%.		3. PRINCIPAL SOURCES OF INFORMATION (1)
		5. TECHINICAL TRANSFER	- On-the-job training on development planning and tube well construction - JICA training program for counterparts		

PROJECT SUMMARY (M/P)

Compiled	March 1990
Revised	March 1991

ASE PHI 108 /87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Cagayan River Basin in Luzon Island, 27,300 sq.km	1. PRSENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Cagayan River Basin Water Resources Development	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	(US\$1=20.5p) Total Cost Local Cost Foreign Cost 1) 1,609 2)	(Description) Implementation of the Feasibility Study by the DPWH was expected immediately after M/P was finalized on August in 1987. However, F/S was delayed due to the revolution on February 1987. The government of the Philippines is requesting a feasibility study by JICA.	
3. SECTOR	Social Infrastructures/ Water Resource Development	3. MAJOR PROJECT(S) PROPOSED	(1) Sipfu Multi Dam Project, Dam Height 58 m (2) Matuno Multi Dam Project, Dam Height 147 m (3) Malig Dam Project, Dam Height 84 m (4) Tuguegarao River Training Project 22.1 km (5) Magapit Dredging Project (6) Pinacanauan Irrigation Rehabilitation Project 1,220 ha		
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	(1) This project generally has tremendous effects on irrigation, flood control and hydropower development and additionally, it has an advantage on social security problem because an opportunity of labour will be expected to increase in local area.	2. MAJOR REASONS FOR PRESENT STATUS	
5. TYPE OF STUDY	M/P	5. TECHINCAL TRANSFER	(1) 4 special OJT (2) 2 OJT in Japan (3) To finalize report with counterpart	3. PRINCIPAL SOURCES OF INFORMATION (1)	
6. COUNTERPART AGENCY	Department of Public Works and Highway				
7. OBJECTIVES OF STUDY	Master Plan of Water Resources				
8. DATE OF S/W	Aug.1985				
9. CONSULTANT(S)	Nippon Koei Nikken Consultants				
10. STUDY TEAM	No. of Members 15 Period Oct.1985 -- Aug.1987 (23 months) Total M/M 140.97 Japan 72.29 Field 68.68				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12. EXPENDITURE	Total 446,671 (¥'000) Contracted 344,969				

和名 カガヤン河流域水資源開発基本計画

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

PROJECT SUMMARY (F/S)

Compiled March 1990
Revised March 1991

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

PROJECT SUMMARY (F/S)

ASE PHI 320/87

Compiled March 1990
Revised March 1991

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Philippines	1. SITE OR AREA	Manila	1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Manila South Port Rehabilitation Project	2. PROJECT COSTS	(US\$1=20.5P) Total Cost Local Cost Foreign Cost (US\$1,000) 1) 35,366 10,315 25,051 2) 3)	(Description) -Government of the Philippines applied the ADB loans based on the report. -D/D was executed by Pacific Consultants International. - As of Dec. 1990, The project is under construction.	
3. SECTOR	Transportation/ Port	3. CONTENTS OF MAJOR PROJECT(S)			
4. REFERENCE NO.					
5. TYPE OF STUDY	F/S				
6. COUNTERPART AGENCY	Philippines Ports Authority	Implementation Period: 1989 - 1992		2. MAJOR REASONS FOR PRESENT STATUS	
7. OBJECTIVES OF STUDY	Review of Master Plan (year 2000) and establishing Short Term Development Plan for South Harbour.				
8. DATE OF S/W	Dec.1985	4. FEASIBILITY AND ITS ASSUMPTIONS	EIRR FIRR 18.46% 7.69%		
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Nikken Sekkei	Feasibility: Yes Conditions and Development Impacts: Target Year of Demand Estimate: Year 1995 and Year 2005 Development Impact: Improvement in managing and operation by rehabilitation of facilities.			
10. STUDY TEAM	No. of Members 11 Period Mar.1986 - Jun.1987 (16 months) Total M/M 65.06 Japan 30.22 Field 34.84	5. TECHINICAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION (1)	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Traffic Survey, Soil Survey, Topographic Survey, Structure Inspection	(1) We held a seminar in Manila for Technical Transfer (2) We gave a lecture on methodology of F/S (3) Jointly works on survey			
12. EXPENDITURE	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 (F/S)

Compiled March 1990
Revised March 1991

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

PROJECT SUMMARY (Basic Study)

Compiled March 1991
Revised

ASE PHI 503/88

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

和名 マニラ都市基本図作成

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

PROJECT SUMMARY (M/P + F/S)

Compiled March 1991
Revised

ASE PHI 206A /89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESULTS	
1. COUNTRY	Philippines	1. SITE OR AREA	Metro Manila and its Neighboring Area, about 981sq.km in total	1. PRSENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Flood Control and Drainage Project in Metro Manila	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	US\$1=21.3P=132Yen Total Cost Local Cost Foreign Cost 1) 634,883 2)	(Description)	Three priority projects such as the drainage improvement in East and West of Mangahan, the drainage improvement in Malabon-Tullahan and the river improvement in Pasig River were selected in the Master Plan study. Among the above, drainage improvement in East and West of Mangahan is scheduled to be Implemented under the 16th OECF loan. The up-dated status is in the pre-qualification of the consultants for the detailed design work.
3. SECTOR	Social Infrastructures/ River & Erosion Control	3. MAJOR PROJECT(S) PROPOSED	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.		
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	Master Plan was prepared setting the target completion year in 2020 considering the financial restriction for realization. The safety degree of the plan was set as follows based on the economic evaluation and social significance of the area. Flood Control: Pasig-Marikina River: 100 year Other Rivers : 30 year Drainage Improvement: Marabon-Navotas : 5 year East of Mangahan: 5 year West of Mangahan: 5 year Other areas : 3 year		
5. TYPE OF STUDY	M/P+ (F/S)		In the above, drainage improvement in Manila and its neighboring area is not included since the construction of three pumping stations and drainage channel improvement is on-going under the 14th OECF loan together with the retrieval of flood-prone area under the JICA grant aid, and the safety degree in this area reaches almost 10 year after the completion of the above foreign aid projects.		
6. COUNTERPART AGENCY	Department of Public Works and Hithway				
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				
9. CONSULTANT(S)	Nippon Koei Co.,Ltd. CTI Engineering Co.,Ltd.				
10. STUDY TEAM	No. of Members 14 Period Dec.1987 - Mar.1990 (27 months) Total M/M 123.94 Japan 71.84 Field 52.10			2. MAJOR REASONS FOR PRESENT STATUS	Serious damage was occurred in 1986 and 1988 in the East and West of Mangahan by the intrusion of the lake water together with the inundation of inland water because of the high lake stage and poor drainage system.
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Longitudinel and Cross Sectional Survey of Rivers and Main Channels Installation of Rain Gauge and Water Level Guage Stations	5. TECHINCAL TRANSFER	Transfer of knowledge 1.On-the-job-training for counterparts by each expert. 2.Guidance and training on hydrological observation, operation and maintenance methods of equipments and data filing system.	3. PRINCIPAL SOURCES OF INFORMATION	
12. EXPENDITURE	Total 369,849 (¥'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)

Compiled March 1991
Revised

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		1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled															
2. NAME OF STUDY	Flood Control and Drainage Project in Metro Manila	2. PROJECT COSTS	US\$1=21.3P=132Yen <table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>132,000</td> <td>35,400</td> <td>96,600</td> </tr> <tr> <td>2)</td> <td>52,400</td> <td>16,600</td> <td>35,800</td> </tr> <tr> <td>3)</td> <td>65,800</td> <td>22,300</td> <td>43,500</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	132,000	35,400	96,600	2)	52,400	16,600	35,800	3)	65,800	22,300
	Total Cost	Local Cost	Foreign Cost																	
1) (US\$1,000)	132,000	35,400	96,600																	
2)	52,400	16,600	35,800																	
3)	65,800	22,300	43,500																	
3. SECTOR	Social Infrastructures/ River & Erosion Control	3. CONTENTS OF MAJOR PROJECT(S)	(Description) Three priority projects such as the drainage improvement in East and West of Mangahan, the drainage improvement in Malabon-Tullahan and the river improvement in Pasig River were selected in the Master Plan study. Among the above, drainage improvement in East and West of Mangahan is scheduled to be implemented under the 16th OECF loan. The up-dated status is in the pre-qualification of the consultants for the detailed design work.																	
4. REFERENCE NO.		1. Drainage Improvement in East and West of Mangahan. -Lake Dike : 10,700m in total length -Pumping station : 9 places -New construction of drainage channel : 19,750m in total length 2. Drainage Improvement in Malabon-Navotas -Coastal Dike : 6,800m in total length -Pumping station : 6 places -New construction of drainage channel (Open channel) : 2,700m in total length 3. Pasig-Marikina River Improvement -River Improvement : 23,920m in total length -Marikina Control Gate Structure (MCGS) : 1 place																		
5. TYPE OF STUDY	(M/P)+F/S	Implementation Period: 1991 - 2000																		
6. COUNTERPART AGENCY	Department of Public Works and Highway	4. FEASIBILITY AND ITS ASSUMPTIONS																		
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		EIRR 16.8%	FIRR 15.9%																
8. DATE OF S/W	Jul. 1987	Feasibility: Yes	16.1%																	
9. CONSULTANT(S)	Nippon Koei Co., Ltd. CTI Engineering Co., Ltd.	Conditions and Development Impacts: Feasibility Study on the three priority projects selected in the Master Plan Study was conducted setting the target completion year in 2000, the safety degree was set as follows. -Drainage Improvement : 5 year -River Improvement : 30 year		2. MAJOR REASONS FOR PRESENT STATUS																
10. STUDY TEAM	No. of Members 14 Period Dec. 1987 - Mar. 1990 (27 months) Total M/M 123.94 Japan 71.84 Field 52.10			Serious damage was occurred in 1986 and 1988 in the East and West of Mangahan by the intrusion of the lake water together with the inundation of inland water because of the high lake stage and poor drainage system.																
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. TECHINCAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION																
12. EXPENDITURE	Total 369,849 (¥'000) Contracted 344,031	1. Guidance and training on hydrological observation, operation and maintenance methods of equipment and Data filing system.																		