

PROJECT SUMMARY (F/S)

Compiled Mar.1993
Revised

ASE IDN/S 341/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Indonesia	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Surabaya - Mojokerto Toll Road Project	Area between Surabaya-Mojokerto corridor and surrounding area					
3.SECTOR	Transportation/Road	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description) Bina Marga intends to implement the project by the BOT (Build, Operate and Transfer) method. Negotiations with private investors are in progress.
4.REFERENCE NO.		(US\$1,000)	1) 2) 3)	199,370			
5.TYPE OF STUDY	F/S	3.CONTENTS OF MAJOR PROJECT(S)					
6.COUNTERPART AGENCY	Bina Marga Jasa Marga	Construction of toll road between Surabaya-Mojokerto (Initial 4 lanes) 199,370 (Additional 2 lanes) 13,950 (Overlay) 18,170 (Additional I.C.) 13,590 (Rp.1,965/US\$)					
7.OBJECTIVES OF STUDY	To examine feasibility of constructing/operating toll road	4.FEASIBILITY AND ITS ASSUMPTIONS					
8.DATE OF S/W	Nov.1989	Imp. Period: 1991-1995					
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Pasco International Inc.	Feasibility: Yes	EIRR1) EIRR2) EIRR3)	28.00	FIRR1) FIRR2) FIRR3)	22.00	
10.STUDY TEAM	No. of Members 14 Period Aug.1990-Oct.1991 (15 months)	Conditions and Development Impacts: The quantified economic benefits which would be realized from implementation of project are defined as the saving in travel costs when comparing "with" and "without" cases. Travel costs comprise operating cost and time cost. The incentive development impacts for the area near interchangers.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Mapping Work, Traffic Survey, and Geologic Surve	5. TECHNICAL TRANSFER					
12.EXPENDITURE	Total 271,228 (¥000) Contracted 262,807	- The engineering site survey was made together with counterparts. - A staff of Bina Marga visited Japan for participation of training program during Aug.-Oct.1990. - One-day-seminar was executed in Jakarta (Aug.28,1991)					
						2.MAJOR REASONS FOR PRESENT STATUS	
						3.PRINCIPAL SOURCE OF INFORMATION	
						①	

和名 スラバヤ〜モジヨクト有料道路建設計画

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

PROJECT SUMMARY (F/S)

Compiled Mar. 1993

Revised

ASE IDN/A 313/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Indonesia	1. SITE OR AREA	Kabupaten Nias, North Sumatra province, 4,000 km ² , 560,000 persons in 1989			1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Nias Island Irrigation and Agricultural Development Project	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost		
3. SECTOR	Agriculture/General		(US\$1,000)	1) 36,015	2) 21,086	3) 14,928	
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	Feasibility study on Mezawa/Hov irrigation project has been executed. (1) Diversion Weirs: 4nos. (2) Primary irrigation canal and secondary canals: 101km (3) Drainage canals: 62km (4) Road Net Work: 131km (5) On-farm development: 5,100ha (6) Land reclamation: 2,640ha (7) Irrigation Agricultural Coordination Center				
5. TYPE OF STUDY	F/S	7. OBJECTIVES OF STUDY					Implementation period is 5 years.
6. COUNTERPART AGENCY	Ministry of Public Works, Directorate General of Water Resources Development	8. DATE OF S/W	Nov. 1989		(Description) After the completion of the F/S, no decision has been taken toward the project implementation.		
9. CONSULTANT(S)	Nihon Koei Co., Ltd. Pacific Consultants International	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 10.20 EIRR2) EIRR3)			
10. STUDY TEAM	No. of Members 11 Period Aug. 1990-Aug. 1991 (13 months)	5. TECHNICAL TRANSFER	Conditions and Development Impacts: Assumption (1) project life - 50 year (2) all prices are expressed in constant prices in late 1990 (3) exchange rate: US\$1 = Rp1,850 (4) transfer payment are exchanged from the project cost (5) economic price of traded goods is estimated based on IBRD projections of world market prices for 1995 Effects (1) incremental paddy production is estimated at 47,000 tons				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	1. geological survey 2. topographic survey 3. environmental assessment survey	12. EXPENDITURE	Total	250,058 (¥'000)		2. MAJOR REASONS FOR PRESENT STATUS	
		Contracted	184,658				
						3. PRINCIPAL SOURCE OF INFORMATION	

和名 ニアス島灌漑農業開発計画

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

PROJECT SUMMARY (F/S)

ASO KOR/S 301/77

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	Korea	1.SITE OR AREA		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;">Total Cost</td> <td style="width: 20%; text-align: center;">Local Cost</td> <td style="width: 20%; text-align: center;">Foreign Cost</td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">385,000</td> <td style="text-align: center;">269,000</td> <td style="text-align: center;">116,000</td> </tr> <tr> <td style="text-align: center;">(US\$1=Won480)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">2)</td> <td style="text-align: center;">3)</td> </tr> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)	385,000	269,000	116,000	(US\$1=Won480)	1)	2)	3)	1.PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
	Total Cost	Local Cost	Foreign Cost																
(US\$1,000)	385,000	269,000	116,000																
(US\$1=Won480)	1)	2)	3)																
2.NAME OF STUDY Rapid Transit Line No.2, Construction Project in Seoul		2.PROJECT COST																	
3.SECTOR Transportation/Railway		3.CONTENTES OF MAJOR PROJECT(S)				(Description) (FY1991 Overseas Survey) After the completion of the JICA study, the Korean authorities decided to reroute the proposed Subway No.2 in accordance with the urban development plan for Seoul. Specifically, the subway was to be constructed in line with the policy objective of alleviating the population concentration in the Gangpae Area by encouraging the population growth of the Gangnam Area. Accordingly, the subway No.2 was divided into four sections, and the construction was completed in four stages, as shown below. 1) New Station-Sport Stadium (14.3km) Opened in Oct. 1980 2) Sp. Stadium-Univ. of Education (5.5km) Opened in Dec. 1982 3) Univ. of Ed.-Seoul Univ. (6.7km) Opened in Dec. 1983 4) Seoul Univ.-New Station (22.3km) Opened in May 1984 Total cost of construction : W887.1 billion Local currency component : W805.7 billion Foreign currency component: W 71.4 billion of which, Yen Loan W 15.8 billion Others W 55.6 billion The route proposed by the JICA study was different from the one													
4.REFERENCE NO.		- New subway line (double track, 1,435 mm gauge, 24 km, 20 stops) - Marshalling yard (capacity of 410 cars) - Operation (fleet of 240 cars), daily service frequency of 430 cars) - Electric equipment (direct current 1,500V, transformers at 6 locations, overhead transmission) - Signals and tele-communication (automatic signals, telephones, wireless)																	
5.TYPE OF STUDY								4.FEASIBILITY AND ITS ASSUMPTIONS											
6.COUNTERPART AGENCY								Feasibility: EIRR1) 17.60 FIRR1) Yes EIRR2) FIRR2) EIRR3) FIRR3)											
7.OBJECTIVES OF STUDY								Conditions and Development Impacts:											
Technical and economic evaluation of constructing a new 24-km line of the Subway No.2 and related facilities		Conditions: - Demand projections are based on those done by KIST - The transit line will start partial operation before the completion of the entire line - Fares will be increased from the present level Development impacts: - The new line will stimulate the growth of the southern area of Seoul - Alleviation of traffic congestion in the central and southern areas of Seoul - Saving of travel time and reduction of transport costs																	
8.DATE OF S/W		Imp. Period: Dec.1978-Dec.1983		2.MAJOR REASONS FOR PRESENT STATUS															
9.CONSULTANT(S)		Japan Transportaon Consultants, Inc. Pacific Consultants International The Japan Electrical Consulting Co., Ltd. Japan Transportation Machinery Consultants Co.																	
10.STUDY TEAM		5.TECHNICAL TRANSFER						3.PRINCIPAL SOURCE OF INFORMATION											
No.of Members 21 Period Apr.1977-Dec.1977 (8 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> </table>										Total M/M	Japan	Field							
Total M/M	Japan	Field																	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Participation of counterparts in JICA training program				①③													
12.EXPENDITURE																			
Total		103,375 (¥'000)																	
Contracted																			

和名 地下鉄2号線建設計画

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

PROJECT SUMMARY (F/S)

ASO KOR/A 301/78

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																																														
1. COUNTRY	Korea	1. SITE OR AREA				1. PRESENT STATUS																																																														
2. NAME OF STUDY	Southwest Coast Agricultural Land Reclamation Project	Kimpo, Sihwa, Hongbo, Puchang, Haenam																																																																		
3. SECTOR	Agriculture/General	2. PROJECT COST		Total Cost		<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing																																																														
4. REFERENCE NO.		(US\$1,000)		Local Cost																																																																
5. TYPE OF STUDY	F/S	1) 898,347		Foreign Cost		(Description)																																																														
6. COUNTERPART AGENCY	ADC	2) 720,661		3)																																																																
7. OBJECTIVES OF STUDY		3. CONTENTS OF MAJOR PROJECT(S)				(FY1991 Overseas Survey) The present statuses of the five reclamation sites examined by the JICA study are as follows. 1. Kimpo : Completed in June 1989 by private investment 2. Sihwa : To be completed in Dec. 1994 mostly by public investment 3. Haenam : To be completed in Dec. 1994 mostly by public investment 4. Hongbo : To be completed in Dec. 2001 mostly by public investment 5. Puchang: Compared with the other sites, the urgency is low. The project is temporarily on hold, but if it should be implemented, funding would come mainly from the public sector. At the time of the JICA study, the primary objective of the proposed reclamation schemes was in the increased production of paddy. Due to the subsequent socio-economic changes, the objective was diversified to include animal husbandry, cash crops, and industrial development.																																																														
8. DATE OF S/W	Mar.1976	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Kimpo</th> <th>SihwaA</th> <th>SihwaB</th> <th>Puchang</th> <th>Hongbo</th> <th>Haenam</th> </tr> </thead> <tbody> <tr> <td>1. Reclamation(ha)</td> <td>4,910</td> <td>21,100</td> <td>-</td> <td>7,910</td> <td>1,907</td> <td>5,935</td> </tr> <tr> <td>2. Tide Crest</td> <td>8 places 12km</td> <td>7 places 21.3km</td> <td>4 places 2.6km</td> <td>4 places 9.8km</td> <td>4 places 2.6km</td> <td>7 places 12.4km</td> </tr> <tr> <td>3. Pumping Stations</td> <td>1</td> <td>10</td> <td>10</td> <td>9</td> <td>9</td> <td>12</td> </tr> <tr> <td>4. Drainage</td> <td>-</td> <td>4</td> <td>3</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>5. Irrig. canals</td> <td>9 canals</td> <td>15 canals</td> <td>15 canals</td> <td>-</td> <td>62 canals</td> <td>-</td> </tr> <tr> <td>6. Cost (billion won)</td> <td>23.4</td> <td>217.1</td> <td>131.7</td> <td>94.3</td> <td>35</td> <td>64.4</td> </tr> <tr> <td>7. Implementation</td> <td>3 yrs</td> <td>5 yrs</td> <td>5 yrs</td> <td>4 yrs</td> <td>4 yrs</td> <td>4 yrs</td> </tr> <tr> <td>8. IRR(%)</td> <td>12.75</td> <td>8.75</td> <td>9.26</td> <td>12.1</td> <td>12.0</td> <td>11.2</td> </tr> </tbody> </table> Note: the cost 1) includes the alternative A of Sihwa, and cost 2) the alternative B of Sihwa.							Kimpo	SihwaA	SihwaB	Puchang	Hongbo	Haenam	1. Reclamation(ha)	4,910	21,100	-	7,910	1,907	5,935	2. Tide Crest	8 places 12km	7 places 21.3km	4 places 2.6km	4 places 9.8km	4 places 2.6km	7 places 12.4km	3. Pumping Stations	1	10	10	9	9	12	4. Drainage	-	4	3	-	-	-	5. Irrig. canals	9 canals	15 canals	15 canals	-	62 canals	-	6. Cost (billion won)	23.4	217.1	131.7	94.3	35	64.4	7. Implementation	3 yrs	5 yrs	5 yrs	4 yrs	4 yrs	4 yrs	8. IRR(%)	12.75	8.75	9.26	12.1
	Kimpo	SihwaA	SihwaB	Puchang	Hongbo	Haenam																																																														
1. Reclamation(ha)	4,910	21,100	-	7,910	1,907	5,935																																																														
2. Tide Crest	8 places 12km	7 places 21.3km	4 places 2.6km	4 places 9.8km	4 places 2.6km	7 places 12.4km																																																														
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9. CONSULTANT(S)		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes		2. MAJOR REASONS FOR PRESENT STATUS																																																														
10. STUDY TEAM	No. of Members 6 Period Mar.1978-	EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)		Conditions and Development Impacts: This study is to investigate the results of related main projects (by Korean agency) among reclamation development projects in southwest seashore which are to be implemented, to conduct field investigation, and to exchange the view with the persons in charge in related agencies. As a result of the study, those projects in the specific five districts are effective and appropriate as a means to facilitate the gigantic master plan in southwest seashore belt.																																																																
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				3. PRINCIPAL SOURCE OF INFORMATION																																																														
12. EXPENDITURE	Total 11,556 (¥'000) Contracted																																																																			

和名 西南海岸干拓農地開發計画

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

PROJECT SUMMARY (M/P)

ASO KOR/S 101/79

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS											
1.COUNTRY	Korea	1.SITE OR AREA	10 damsites: Bamseonggol, Inje, Hongcheon, Ganhyeon, Gujeol, Dalucheon, Bonghwa, Imha, Hanyang, Juam		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued										
2.NAME OF STUDY Long-Term Multipurpose Dam Schemes		2.PROJECT COST (US\$1,000)			(Description) (FY1991 Overseas Survey) The current statuses of the ten dam sites examined in the 2nd stage of the JICA study are as follows. 1) Six sites considered feasible a) Bamseonggol: Implementation is difficult because of possible flooding and other negative consequences in North Korea. b) Dalucheon: Time of implementation is not specified. c) Hongcheon: A construction plan with expected completion in the year 2000 was prepared. d) Ganhyeon: Time of implementation is not specified. e) Juam: Completed in Dec.1991 with OECF funding of 11,100 million yen (L/A in Aug. 1984). f) Imha: Completed in Dec.1991 with OECF funding of 6,975 million yen (L/A in Aug. 1987). 2) Four sites which were considered not feasible at the time of the study, but might be justified at some future date. a) Gujeol: Completed in 1991 by the Korean Electric Power Corporation (the power plant located in Kanrin) b) Inje: Time of implementation is not specified. c) Bonghwa: Time of implementation is not specified. d) Hanyang: F/S and D/D were completed, but the construction schedule is yet undecided.											
3.SECTOR Social Infrastructures/Water Resource Development		3.CONTENTES OF MAJOR PROJECT(S) In the 1st stage study, 24 damsites were investigated, out of which 10 sites were selected as high in priority. In the 2nd stage study, 6 dam schemes (Bamseonggol, Monqcheon, Dalucheon, Ganhyeon, Imha and Juam) were concluded as feasible.														
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS The dam schemes have positive impacts on water supply, irrigation, flood control and power generation.														
5.TYPE OF STUDY M/P		5.TECHNICAL TRANSFER Transfer of knowledge to Korean engineers.														
6.COUNTERPART AGENCY Water Resources Bureau, Ministry of Construction		6.PRINCIPAL SOURCE OF INFORMATION ①③														
7.OBJECTIVES OF STUDY Water resource development		7.MAJOR REASONS FOR PRESENT STATUS														
8.DATE OF S/W Jun.1977		8.STUDY TEAM No. of Members 25 Period Oct.1977-Sep.1979 (23 months)														
9.CONSULTANT(S) Nihon Koei Co., Ltd.		9.ASSOCIATED AND/OR SUBCONTRACTED STUDY														
10.STUDY TEAM		12.EXPENDITURE														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 15%;">Total</th> <th style="width: 15%;">Japan</th> <th style="width: 15%;">Field</th> </tr> </thead> <tbody> <tr> <td>Total M/M</td> <td style="text-align: right;">227,221 (¥'000)</td> <td></td> <td></td> </tr> <tr> <td>Contracted</td> <td style="text-align: right;">451,087</td> <td style="text-align: right;">59.30</td> <td style="text-align: right;">20.90</td> </tr> </tbody> </table>						Total	Japan	Field	Total M/M	227,221 (¥'000)			Contracted	451,087
	Total	Japan	Field													
Total M/M	227,221 (¥'000)															
Contracted	451,087	59.30	20.90													

和名 長期多目的ダム開発計画

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

PROJECT SUMMARY (M/P+F/S)

ASO KOR/S 201A/85

Compiled Mar.1988
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Korea	1.SITE OR AREA	(Main Olympic Games site)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Seoul Municipal Solid Waste Management System	2.PROJECT COST	Total Cost	Local Cost	(Description) Followed by F/S.	
3.SECTOR	Public Utilities/Urban Sanitation	(US\$1,000)	1) 13,258	13,258		
4.REFERENCE NO.		(US\$1=890 won)	2)			
5.TYPE OF STUDY	M/P+ (F/S)	3.CONTENTES OF MAJOR PROJECT(S)				
6.COUNTERPART AGENCY	Ministry of Science and Technology (MOST)	See next page.				
7.OBJECTIVES OF STUDY	Solid Waste Management Plan	4.CONDITIONS AND DEVELOPMENT IMPACTS				
8.DATE OF S/W	Nov.1983	This project is expected to improve living conditions and to establish an effective municipal solid waste management system suitable to a modern city.				
9.CONULTANT(S)	Pacific Consultants International Nippon Jogesuido Sekkei Co., Ltd.	5. TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS	
10.STUDY TEAM	No.of Members 16 Period Jun.1984-Sep.1985 (13 months)	Use of local consultants for solid waste composition analysis.				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE						
	Total 254,159 (Y'000)				①③	
	Contracted 309,821					

和名 ソウル特別市都市固形廃棄物整備計画

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

PROJECT SUMMARY (M/P+F/S)

ASO KOR/S 201B/85

Compiled Mar.1988

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																			
1.COUNTRY	Korea	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing																		
2.NAME OF STUDY	Seoul Municipal Solid Waste Management System	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">2.PROJECT COST</td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td>1)</td> <td style="text-align: center;">13,258</td> <td style="text-align: center;">13,258</td> <td></td> </tr> <tr> <td>(US\$1=890 won)</td> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>						2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)	13,258	13,258		(US\$1=890 won)	2)					3)	
2.PROJECT COST		Total Cost	Local Cost	Foreign Cost																					
(US\$1,000)	1)	13,258	13,258																						
(US\$1=890 won)	2)																								
	3)																								
3.SECTOR	Public Utilities/Urban Sanitation	3.CONTENTS OF MAJOR PROJECT(S)				(Description) After the completion of the study, subsequent steps were suspended because of the budgetary reallocation necessitated by the Olympic Games. (FY1991 Overseas Survey) In October 1991, the municipal government of Seoul announced its long-term development plan of solid waste management, which envisages to establish 11 incinerators with a total capacity of 16,500 tons/day by the end of 1999. The total cost was estimated to amount to 2 trillion won. One incinerator (150 ton/day) was already constructed in Mokudon, and the construction of tow others is expected to start during 1992. The finding of the JICA study would be partly consulted for the implementation. The JICA study proposed the land reclamation in Jinsen to establish a final disposal site. The current policy is to utilize the existing disposal site in Nanjido until Nov.1992, and then to transfer to the Jinsen site (Jinsen City is already using about 4 million square meters out of the total available area of 20 million).																			
4.REFERENCE NO.		Incinerator 3t/day Transfer station 1,150t/day Final disposal site Transportation system																							
5.TYPE OF STUDY	(M/P) +F/S																								
6.COUNTERPART AGENCY	Ministry of Science and Technology (MOST)																								
7.OBJECTIVES OF STUDY	Solid Waste Management Plan																								
8.DATE OF S/W	Nov.1983	Imp. Period: May.1987-Aug.1988																							
9.CONSULTANT(S)	Pacific Consultants International Nippon Jogesuido Sekkei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%; text-align: center;">Yes</td> <td style="width: 15%; text-align: center;">EIRR1)</td> <td style="width: 15%; text-align: center;">FIRR1)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">EIRR2)</td> <td style="text-align: center;">FIRR2)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">EIRR3)</td> <td style="text-align: center;">FIRR3)</td> </tr> </table>				Feasibility:	Yes	EIRR1)	FIRR1)			EIRR2)	FIRR2)			EIRR3)	FIRR3)						
Feasibility:	Yes	EIRR1)	FIRR1)																						
		EIRR2)	FIRR2)																						
		EIRR3)	FIRR3)																						
10.STUDY TEAM	No.of Members 13 Period Jun.1984-Sep.1985 (16 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">Total M/M</td> <td style="width: 15%; text-align: center;">Japan</td> <td style="width: 15%; text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">109.00</td> <td style="text-align: center;">45.50</td> <td style="text-align: center;">63.50</td> </tr> </table>	Total M/M	Japan	Field	109.00	45.50	63.50	Conditions and Development Impacts: An efficient solid waste management system is indispensable for the rapidly growing City of Seoul. The existing disposal site at nanjido is open dumping and unhygienic and the capacity has already been exhausted. A new, sanitary landfill disposal site need be located in Jinsen.																	
Total M/M	Japan	Field																							
109.00	45.50	63.50																							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER																							
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">Total</td> <td style="width: 15%; text-align: center;">254,159 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">309,821</td> </tr> </table>	Total	254,159 (¥'000)	Contracted	309,821	OJT: Seminar by specialized field																			
Total	254,159 (¥'000)																								
Contracted	309,821																								
2.MAJOR REASONS FOR PRESENT STATUS																									
3.PRINCIPAL SOURCE OF INFORMATION																									
①③																									

和名 ソウル特別市都市固形廃棄物整備計画

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

PROJECT SUMMARY (M/P)

ASO KOR/S 102/91

Compiled Mar.1993
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Korea	1.SITE OR AREA	Seoul Metropolitan Area of four rivers (the Anyang Chong, the Yangjae Chong, the Ui Chong and the Chungroung Chong Rivers)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Environmental Management Project on Small-and-medium-sized Rivers of the Han River System	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) (FY1992 Overseas Survey) Waiting for the answer.						
3.SECTOR	Social Infrastructures/River & Erosion Control		(US\$1,000)									
4.REFERENCE NO.			1)	10,800,000	10,800,000							
5.TYPE OF STUDY	M/P		2)	40,760,000	40,760,000							
6.COUNTERPART AGENCY	River Maintenance Division, Seoul Metropolitan Government	3.CONTENTES OF MAJOR PROJECT(S)										
7.OBJECTIVES OF STUDY	To formulate basic ideas and project plans for river environment improvement on the four small-to-medium-sized rivers, consisting of water purification plans realizable as river projects, flow improvement plans for recovery and	1. Water Quality Improvement Facilities The Anyang Chong River: four facilities dredging piled mud on lower streams The Yangjae Chong River: one facility The Ui Chong River: arrangement of lower streams The Chungroung Chong River: one facility 2. Flow Regime Improvement Facilities The Ui Chong River: one movable barrage three environmental streams 3. River Space Improvement Facility The Anyang Chong River: three points 28.2km The Yangjae Chong River: two points 13.2km The Ui Chong River: one point 14.0km The Chungroung Chong River: one point 7.8km										
8.DATE OF S/W	Oct.1989	4.CONDITIONS AND DEVELOPMENT IMPACTS										
9.CONSULTANT(S)	Kokusai Kougyo Co., Ltd.	Target Year: 2010(The First Phase Target Year: 2002) Water Quality Improvement (Biochemical Oxygen Demand (BOD) in mg/l) The Anyang Chong River: Station (St.)2 44.7-->10.0 St.4 39.8-->10.0 St.5 41.2-->10.0 St.6 23.7-->10.0 The Yangjae Chong River: St.2 13.4-->10.0 15.3-->6.0 The Chungroung Chong River:St.3 34.0-->6.0 44.5-->6.0 [Other general benefits] 1.Subsistence aspect (disaster and pollution reduction) 2.Life aspect (spectacle improvement, air purification, amenity improvement and recreation opportunity increase) 3.Social and cultural aspect (community activation and preservation of historic relics and cultural properties) 4.Natural preservation aspect (protection of animals and plants and flow preservation) 5.Educational aspect (opportunity increase of environment and nature education) 6.Economic aspect (cost reduction of park maintenance, land pricerise, medical cost reduction, production and employment increase in related industries)										
10.STUDY TEAM	No.of Members 12 Period Oct.1989-Jan.1992 (39 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">80.50</td> <td style="text-align: center;">43.20</td> <td style="text-align: center;">37.30</td> </tr> </table>	Total M/M	Japan	Field	80.50		43.20	37.30				
Total M/M	Japan	Field										
80.50	43.20	37.30										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER										
12.EXPENDITURE		Planning and designing method on direct purification facility of river water and water-contact facilities.										
	Total 399,015 (¥'000)											
	Contracted 220,009											
					2.MAJOR REASONS FOR PRESENT STATUS							
					3.PRINCIPAL SOURCE OF INFORMATION							

和名 漢江水系中小河川環境整備計画

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

PROJECT SUMMARY (M/P+F/S)

ASO LAO/S 201A/89

Compiled Mar.1991
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS														
1.COUNTRY	Laos	1.SITE OR AREA	City of Vientiane(52 sq.km)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued													
2.NAME OF STUDY	Improvement of Drainage System in Vientiane	2.PROJECT COST					<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">Total Cost</td> <td style="width: 10%; text-align: center;">Local Cost</td> <td style="width: 10%; text-align: center;">Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td>1)</td> <td style="text-align: center;">75,452</td> <td></td> <td></td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)	75,452			
		Total Cost	Local Cost	Foreign Cost															
(US\$1,000)	1)	75,452																	
	2)																		
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTES OF MAJOR PROJECT(S)			(Description) A feasibility study was conducted for the priority project. The priority project covers the central part of the city which suffers from frequent flooding. (FY1991 Overseas Survey) No additional information.														
4.REFERENCE NO.		- A Master Plan of storm water drainage for the entire study area - Selection of Priority Project																	
5.TYPE OF STUDY	M/P+ (F/S)																		
6.COUNTERPART AGENCY	Municipality of Vientiane																		
7.OBJECTIVES OF STUDY	To prepare a Master Plan of storm water drainage																		
8.DATE OF S/W	Dec.1988	4.CONDITIONS AND DEVELOPMENT IMPACTS																	
9.CONULTANT(S)	Nihon Koei Co., Ltd. Mitsui Consultants Co., Ltd.	The storm water drainage will be improved and inundation damage in the Study area will be relieved.																	
10.STUDY TEAM	No.of Members 11 Period Mar.1989-Mar.1990(13 months)																		
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">Japan</td> <td style="width: 10%; text-align: center;">Field</td> </tr> <tr> <td>Total M/M</td> <td></td> <td style="text-align: center;">33.70</td> <td style="text-align: center;">23.70</td> </tr> <tr> <td></td> <td style="text-align: center;">57.40</td> <td></td> <td></td> </tr> </table>								Japan	Field	Total M/M		33.70	23.70		57.40			
		Japan	Field																
Total M/M		33.70	23.70																
	57.40																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Water quality analysis; Soil and geotechnical analysis	5. TECHNICAL TRANSFER																	
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">173,375 (¥'000)</td> </tr> <tr> <td>Total</td> <td></td> <td></td> </tr> <tr> <td>Contracted</td> <td style="text-align: center;">159,196</td> <td></td> </tr> </table>			173,375 (¥'000)	Total			Contracted	159,196		Counterpart officers participated in the study.			2.MAJOR REASONS FOR PRESENT STATUS					
		173,375 (¥'000)																	
Total																			
Contracted	159,196																		
		3.PRINCIPAL SOURCE OF INFORMATION																	
					①②														

和名 ヱィエンチャン排水網整備計画

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

PROJECT SUMMARY (M/P+F/S)

ASO LAO/S 201B/89

Compiled Mar.1991
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Laos	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		Hong Ke System, Nam Pasak System etc					
Improvement of Drainage System in Vientiane		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)	1) 2) 3)	13,237	5,268	7,969	
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)				(Description) The Government of Lao PDR applied for Japanese grant aid in Feb. 1991, but did not get the approval. Municipality of Vientiane places high priority on this project among the on-going projects. (FY1991 Overseas Survey) No additional information.	
Social Infrastructures/River & Erosion Control		(1) Hong Ke System a. Hong Chanh retarding basin: storage volume 120,000 cu.m. b. Hong Thong storage canal: storage volume 16,000 cu.m. c. Khoa Khao storage canal: storage volume 32,000 cu.m. d. Hong Ke Canal: maximum design discharge 58.1 cu.m./sec. (2) Nam Pasak System Improvement of Nam Pasak canal and construction of short-cut canal (1,140m) (3) Hong Kai Keo System a. Hong Kai Keo canal: maximum design discharge (downstream) 23.5 cu.m./sec. b. Nonq Bon retarding basin: storage volume 50,000 cu.m. In addition to the above, the construction of canal (total length 1,800m) is recommended.					
4.REFERENCE NO.							
5.TYPE OF STUDY		(M/P) +F/S					
6.COUNTERPART AGENCY		Municipality of Vientiane					
7.OBJECTIVES OF STUDY		To prepare F/S on Priority project					
8.DATE OF S/W		Dec.1988				Imp. Period: .1992-.1994	
9.CONULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) 7.30 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
Nihon Koei Co., Ltd. Mitsui Consultants Co., Ltd.		Conditions and Development Impacts: The design storm for the main canals was 1/10 and 1/2 for lateral canals Improvement for the main canals and a part of lateral canals in the inundation area inside the city, and construction of a retarding basin					
10.STUDY TEAM						2.MAJOR REASONS FOR PRESENT STATUS	
No.of Members 11							
Period Mar.1989-Mar.1990 (13 months)							
Total M/M		Japan	Field				
57.40		33.70	23.70				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
		5.technical transfer				3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE		Counterpart officers participated in the study for technical transfer.				①②	
Total		173,375 (¥'000)					
Contracted		159,196					

和名 ヱィエンチャン排水網整備計画

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

PROJECT SUMMARY (F/S)

ASO LAO/A 301/89

Compiled Mar.1992

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Laos	1.SITE OR AREA		Saythany and Saysetha Districts of Vientiane Municipality		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		2.PROJECT COST		Total Cost	Local Cost			Foreign Cost
Agricultural and Rural Development Project in the Surburbs of Vientiane		(US\$1,000)		29,077	2,998	26,529		
3.SECTOR		3.CONTENTS OF MAJOR PROJECT(S)				(Description) -Aug. 2, 1990 E/N for Phase I (1,074 million yen) signed -Jul. 3, 1991 E/N for Phase II (688 million yen) signed -Jul. 1, 1992 E/N for Phase III (450 million yen) signed (FY1992 Overseas Survey) Waiting for the answer.		
Agriculture/General		1. Irrigation and drainage						
4.REFERENCE NO.		a. Main pump station: Discharge 4.86 cu.m./sec.						
5.TYPE OF STUDY		b. Regulation pond: Storage capacity 110,000 cu.m.						
6.COUNTERPART AGENCY		c. Handreach: 11.4km						
Ministry of Agriculture and Forestry		d. Main irrigation canal: 19.3km						
7.OBJECTIVES OF STUDY		e. Secondary irrigation canals: 20.8km						
Formation of a plan for the irrigation and drainage and infrastructure development project		f. Drainage canals: 39.4km						
8.DATE OF S/W		g. On-farm works: 880ha						
Mar.1988		2. Rural infrastructures						
9.CONSULTANT(S)		a. Road: 6.7km						
Nihon Koel Co., Ltd.		b. Deep well and water supply facilities						
Construction Project Consultants		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 11.06 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10.STUDY TEAM		Conditions and Development Impacts:						
No.of Members		(i) To increase rice production to ease the chronic shortage of rice in Vientiane Municipality and its neighbouring area.						
Period Aug.1988-Jun.1989(11 months)		(ii) To produce upland crops to meet the increasing demand resulting from promotion of agro-industrial development and export-crop cultivation.						
Total M/M	Japan	Field	(iii) To provide rural infrastructures for betterment of social and agricultural activities of villagers.					
33.41	9.37	24.04	(iv) To improve living standards of farmers through increase in their farm production and incomes, and provision of rural infrastructures, and					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		(v) To earn or save foreign currency for the Government of Lao PDR by reduction of rice imports and production of export crops.						
		water: stimulate the rural economy.						
12.EXPENDITURE		5.TECHNICAL TRANSFER						
Total		Technology transfer of the methodology of F/S to the counterpart personnel						
Contracted								
101,591 (¥'000)								
96,727								
						3.PRINCIPAL SOURCE OF INFORMATION		
						①		

和名 首都郊外農村開発計画調査

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

PROJECT SUMMARY (F/S)

ASO LAO/S 301/90

Compiled Mar.1992
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Laos	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Tha Ngon Bridge Construction Project	Vientiane Municipality, Xaythani destrict (1200 sq.km, habitant 79000)					
3.SECTOR	Transportation/Road	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1) 2) 3)	15,353	4,943	10,410	
5.TYPE OF STUDY	F/S	3.CONTENTS OF MAJOR PROJECT(S)				(Description) Since the study was completed, Lao PDR submitted the request of Japanese Grant Aid for the Project in February 1991, but did not get the approval. The ferry operation has been experiencing difficulties because of the breakdown of the boats. The operating rate of the ferry is 50% or even less, and the Government of Lao PDR and Vientiane Municipality are hoping the early implementation of this project. (FY1991 Overseas Survey) At the site suggested for the bridge construction, a pump station is now under construction by Japanese grant (Agricultural and Rural Development Project in the Suburbs of Vientiane). The alternative location of the bridge must be identified before its implementation.	
6.COUNTERPART AGENCY	Department of Communication, Transport, and Construction	1. Bridge Foundation: Multi-column foundation by reverse circulation drill method concrete pile Bridge Type: 5 span post-tensioned concrete T-girder Dimension: Bridge length 230m, span 45.060m, total width 11m, carriage width 7.5m, sidewalk 2.5m (upper stream side only) 2. Approach Road Total Length: 3,350m Dimension: Total width 9.0m, carriage width 6.0m, shoulder width 1.5m x 2 (sealed by SBST) Pavement: Subbase course 20cm, base course 15cm, surface DBST, subgrade 30cm (if required)					
7.OBJECTIVES OF STUDY	Feasibility Study of Tha Ngon Bridge						
8.DATE OF S/W	.1989	Imp. Period:					
9.CONSULTANT(S)	Construction Project Consultants	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	2.MAJOR REASONS FOR PRESENT STATUS	
10.STUDY TEAM	No.of Members 7 Period .1990-Jan.1991 (13 months)	Conditions and Development Impacts: Conditions: Traffic growth rate: 1990-2000 11.1%, 2001-2010 3.4%, after 2010 6.4% Capacity of Existing Ferry Boat: 600/ADT (exclude motorcycle) Estiamted ADT: M. cycle 224, P. car 60, L. truck 66, H. bus 18, Total 479 units VOC and Time Cost (time saving cost) with and without project is compared as economic benefit. Development Impacts: -Save vehicle operation cost -Increase agricultural production and decrease its transportation cost and time -Improve tourism and its route -Accelerate implementation of planned regional development project on left side bank of Nam Mgun River					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
12.EXPENDITURE	Total 116,958 (¥'000) Contracted 103,935	5.technical transfer		-On the job training -Technical presentation -Distribution of Bridge Design Manual		3.PRINCIPAL SOURCE OF INFORMATION ①②	

和名 タゴン架橋計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 301/77

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA		Ocean Area Between Kuantan, Pahan in Peninsula Malaysia & Kuching, Sarawak		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		2.PROJECT COST					
Kuantan-Kuching Submarine Cable Project		(US\$1,000) 1) Total Cost 33,301 US\$1=2.36M\$ 2) Local Cost 3) Foreign Cost				(Description) The project was completed by the OECF finance. Jun.1979 OECF Loan Agreement signed (5,558 million yen) For the submarine cables (855.3km and 1,200 voice grade circuits) The east-west Malaysia submarine cable system was constructed by Japanese companies by using Japanese coaxial submarine cable system in 1980.	
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)					
Communications & Broadcasting/Telecommunication		Construction of Submarine Cable System between the Peninsula Malaysia and Kuching, Sarawak in East Malaysia. Contents: Construction of Submarine Cable System between Cherating, Kuantan and Sematan, Kuching Distance: 855.3km No. of Capacity: 1.000 voice grade circuits					
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: EIRR1) 13.80 FIRR1) Yes EIRR2) FIRR2) EIRR3) FIRR3)			
5.TYPE OF STUDY		5. TECHNICAL TRANSFER		Conditions and Development Impacts: Conditions: (1) Construction work should be completed by 1979. (2) Exemption of import Tax of Malaysia (3) Calculated at the exchange rate of 1M\$=120Yen (4) Evaluated over a period of 20 years after construction Development Impacts: It is fully expected to have effects on economic growth of Malaysia and regional development in Sabah, Sarawak states.			
6.COUNTERPART AGENCY		5. TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION		<input type="checkbox"/> ①④	
Jabatan Telekom Malaysia		OJT: 3 trainner on how to carry out the submarine survey					
7.OBJECTIVES OF STUDY						2.MAJOR REASONS FOR PRESENT STATUS	
Increase of telecommunication channels between the Malaysian Peninsula and Saba/Sarawak States							
8.DATE OF S/W						3.PRINCIPAL SOURCE OF INFORMATION	
Jul.1977							
9.CONSULTANT(S)						3.PRINCIPAL SOURCE OF INFORMATION	
Kokusai Denshin Denwa Co, Ltd. Sanyo Hydrographic Survey Co., Ltd.							
10.STUDY TEAM						3.PRINCIPAL SOURCE OF INFORMATION	
No.of Members 7 Period Aug.1977-Mar.1978 (7 months) Total M/M Japan Field							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY						3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE						3.PRINCIPAL SOURCE OF INFORMATION	
Total 107,229 (¥000) Contracted 50,666							

和名 東西マレイシア海底ケーブル敷設計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 201A/78

Compiled Mar.1986

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Malaysia	1.SITE OR AREA	Northwest shore area of Malay Peninsula and Province Wellesley including industrial area facing to Penang island		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Sewerage and Drainage System Project:Butterworth/Bukit Mertajam Metropolitan Area	2.PROJECT COST	Total Cost	Local Cost	(Description) 1. A feasibility study was subsequently undertaken on the priority area (Butterworth and bukit Mertajam) by the JICA team. 2. The Federal Government has launched a national study on sewerage system. Other less costly alternatives may be proposed by the on-going study.							
3.SECTOR	Public Utilities/Sewerage	(US\$1,000)	1) 495,012	404,784								
4.REFERENCE NO.		(US\$1=2.5MS)	2)		2.MAJOR REASONS FOR PRESENT STATUS							
5.TYPE OF STUDY	M/P+(F/S)	3.CONTENTES OF MAJOR PROJECT(S)										
6.COUNTERPART AGENCY	Ministry of Health Engineering Dept., Seberang Perai Municipal Council	To improve sewerage and drainage control facilities in the area facing Penang island -Sewerage facilities: Separate type (including industrial wastewater), main sewers, branch sewers, pumping stations, treatment plans (lagoon) -Drainage facilities: for storm water control by open channels and control pond, design channels with the 2- or 5-year storm return period in Butterworth and Bukit Mertajam urban area, 2 control ponds in Butterworth area, and design control ponds in undeveloped area with the 10-year storm return period.			3.PRINCIPAL SOURCE OF INFORMATION ①②							
7.OBJECTIVES OF STUDY	To establish environmental protection plans (sewerage and drainage control) in consideration with industrial development	4.CONDITIONS AND DEVELOPMENT IMPACTS										
8.DATE OF S/W	Jun.1976	Although it is difficult to scale the economic merits of the project, decrease in epidemic diseases of digestive organs will result in the increase in workload, and decrease in medical expenses. Also water pollution control and flood control are expected. Combined systems is adopted in some areas using existing drains while most of areas are by separate system. The most simplified system, minimum number of pumping station and lagoon system as a treatment plant, is considered for economical and simple operation/maintenance. For drainage system, existing drains are used, and storage/control ponds and reclamations are recommended for flood control.			10.STUDY TEAM No.of Members 16 Period Oct.1976-Feb.1979(28 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">111.00</td> <td style="text-align: center;">56.90</td> <td style="text-align: center;">54.10</td> </tr> </table>		Total M/M	Japan	Field	111.00	56.90	54.10
Total M/M	Japan	Field										
111.00	56.90	54.10										
9.CONSULTANT(S)	Nihon Suido Consultants Co., Ltd.	5.technical transfer			1) The training program for 3 people for 3 months was effectively carried out including site visit/inspection and lectures. 2) Training through preparation of reports: parts of reports are prepared in cooperation with trainees during training							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY												
12.EXPENDITURE												
	Total	334,901 (Y'000)										
	Contracted	315,997										

和名 ペナン州下水道・排水計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 201B/78

Compiled Mar.1986

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA		Butterworth & Bukit Mertajam Metropolitan Area		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Sewerage and Drainage System Project:Butterworth/Bukit Mertajam Metropolitan Area	2.PROJECT COST		Total Cost	Local Cost		
3.SECTOR	Public Utilities/Sewerage			(US\$1,000)	14,200	11,800	
4.REFERENCE NO.				2)			
5.TYPE OF STUDY	(M/P)+F/S			3)			
6.COUNTERPART AGENCY	Ministry of Health Engineering Dept., Seberang Perai Municipal Council	3.CONTENTS OF MAJOR PROJECT(S)					
7.OBJECTIVES OF STUDY	F/S on sewerage and drainage system for proposed area to prepare preliminary engineering design	Contents	Size				
8.DATE OF S/W	Jun.1976	-Study Area		1,100ha (sewerage)			
9.CONSULTANT(S)	Nihon Suldo Consultants Co., Ltd.	-Sewer pipes		3,500ha (drainage)			
10.STUDY TEAM	No.of Members 19 Period Oct.1976-Feb.1979(28 months)	-Pumping station		d225mm-d900mm, L=55.100m			
	Total M/M Japan Field	-Treatment plant (stabilization pond)		8 stations (q=1-23cu.m/min)			
	111.00 56.90 54.10	-Drainage facilities		3 plants (Q=10,000-14,000cu.m/d)			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
12.EXPENDITURE	Total 334,901 (¥'000)			Conditions and Development Impacts:			
	Contracted 315,997			Establishments of sewerage system plan and drainage control plan are based on the M/P. Sewerage and drainage plans established for the target year of 2000. Although the economical merit by the development of plans can not be scaled, the reductions of flood damages during the storm season and control of water pollution by wastewaters from the proposed area, especially from industrial district, can be expected. Decrease of expenses for present night soil treatment systems will also be the one of the essential merits.			
		5.technical transfer					
		1)Carried out a training program in Japan for 3 engineering staffs for 3 months, preparing project reports in cooperation with our engineers. (Including site inspections)					
		2)Project reports preparation: part of F/S reports and other technical reports					
		2.MAJOR REASONS FOR PRESENT STATUS				(FY1992 Overseas Survey) Part of the reason for the rise in cost was the increase of land prices especially during the late 1970s and the early 1980s. From the demand side, local people are not prepared to pay for the cost of sewer connection (20% of annual cost to connect, or RM 1200 on average, which is lower than the actual cost of connection). The proposed centralized sewerage system was too expensive and too advanced for the local government to implement and operate.	
		3.PRINCIPAL SOURCE OF INFORMATION					
						①②	

和名 ペナン州下水道・排水計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/A 201A/79

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS										
1.COUNTRY	Malaysia	1.SITE OR AREA	Trengganu swamp Area on the eastern part of Peninsula Malaysia (about 600sq.km)			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued								
2.NAME OF STUDY	Trengganu Swamp Area Integrated Agricultural Development	2.PROJECT COST						<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">Total Cost</td> <td style="text-align: center;">Local Cost</td> <td style="text-align: center;">Foreign Cost</td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td style="text-align: center;">219,500</td> <td style="text-align: center;">87,800</td> <td style="text-align: center;">131,700</td> </tr> </table>			(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost											
	2)	219,500	87,800	131,700											
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	Twenty-four district, which are expected to be highly efficient for the proposed integrated agricultural development, were selected out of 47 swampy districts in the area. The proposed development area: 32,210 ha (the total of 24 districts). The development includes irrigation, fisheries, sericulture, livestock industry and reclamation/immigration.			(Description) A feasibility study was conducted on a selected district following the master plan phase of the JICA study.									
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS						The Trengganu state has a population of 500 thousand, a half of which is engaged in agriculture. Most of those agricultural population manage their small farms and 80 percent of them are poor. Reclamation of the swamp area is expected to expand agricultural lands and develop livestock industry, sericulture and fisheries, as well as to create employment opportunities.							
5.TYPE OF STUDY	M/P+ (F/S)	5. TECHNICAL TRANSFER	(1) Admittance of two trainees for in-service training in Japan. (2) Transfer of the techniques on soil surveys and chemical/physical analysis of the soil samples through the joint surveys with counterpart agencies of Malaysia.			2.MAJOR REASONS FOR PRESENT STATUS									
6.COUNTERPART AGENCY	Land Development Authority, Central Trengganu Development Authority (KETENGAH)	7.OBJECTIVES OF STUDY													
8.DATE OF S/W	Feb.1978	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY				3.PRINCIPAL SOURCE OF INFORMATION	①②								
9.CONSULTANT(S)	Taiyo Consultants Co., Ltd.	12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">226,358 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">209,427</td> </tr> </table>					Total	226,358 (¥'000)	Contracted	209,427				
Total	226,358 (¥'000)														
Contracted	209,427														
10.STUDY TEAM	No.of Members 26 Period Aug.1978-Mar.1979 (8 months)														
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">100.30</td> <td style="text-align: center;">45.30</td> <td style="text-align: center;">55.00</td> </tr> </table>		Total M/M	Japan	Field	100.30	45.30	55.00								
Total M/M	Japan	Field													
100.30	45.30	55.00													

和名 トレンガヌ沼沢地農業総合開発計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/A 201B/79

Compiled Mar.1990

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA	A part of the Trengganu swamp area (about 3,000ha) on the eastern Peninsula Malaysia			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	Trengganu Swamp Area Integrated Agricultural Development	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost		
3.SECTOR	Agriculture/General		20,200	7,900	12,300	(Description) (FY1992 Overseas Survey) 1. In the current State Development Plan, the development of swamp areas is considered low priority. Because KETENGAH swamps are largely swamp forests, they would be more costly to develop than the plain swamps. There are many other areas which are not developed and can be developed at lower costs. 2. Owing to the change in policy under the 6th Malaysia Plan, the development options have been increasingly left to the private sector. At present, both the State Government and private investors are more interested in oil palm plantations, for which some 400,000 acres have been developed. 3. A few studies were conducted by the KETENGAH, but they were not implemented because of the shortage of funds from the government. 4. Of the districts covered by the JICA master plan, individual farmers have been undertaking small-scale developments with their own fund in more easily accessible districts. Most of the projects implemented were related to the plantation of fruit trees such as saluk, rambutan, durian, etc., because KETENGAH now placed priority on diversification. A major problem for the farmers in the KETENGAH area (the average landholding rangly from 0.25 to 0.5 acres) is the marketing of fruits they produce.	
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)	1)	2)	3)		
5.TYPE OF STUDY	(M/P)+F/S	Land reclamation					
6.COUNTERPART AGENCY	Land Development Authority Central Trengganu Development Authority (KETENGAH)	Irrigation canal	2,100 ha				
7.OBJECTIVES OF STUDY		Drainage canal	16.48 km				
8.DATE OF S/W	Feb.1978	Road	29.14 km				
9.CONSULTANT(S)	Taiyo Consultants Co., Ltd.	Facilities for settlement	31.6 km				
10.STUDY TEAM	No. of Members 26 Period Jun.1979-Feb.1980 (9 months)	Imp. Period: .1980-Dec.1984	705 houses				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) 13.80 EIRR2) 17.10 EIRR3)	FIRR1) FIRR2) FIRR3)		
12.EXPENDITURE	Total 226,358 (¥'000) Contracted 209,427	Conditions and Development Impacts: Benefits from development: Raising income of small-scale farmers. Creation of employment opportunities. Alleviation of damages by flooding.			2.MAJOR REASONS FOR PRESENT STATUS		
		5. TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION		
		(1) Admittance of two trainees for in-service training in Japan (2) OJT					①②

和名 トレンガヌ沼沢地農業総合開発計画

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

PROJECT SUMMARY (Other)

ASE MYS/S 601/79

Compiled Mar.1986

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS					
1.COUNTRY	Malaysia	1.SITE OR AREA	Bintulu/Sarawak			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use		
2.NAME OF STUDY	Bintulu Deepwater Port Project	2.PROJECT COST					Total Cost	Local Cost	Foreign Cost
3.SECTOR	Transportation/Port	3.CONTENTES OF MAJOR PROJECT(S)	(US\$1,000)	1)	2)	(Description) Based upon the recommendation of this report, the project was implemented and completed in 1985 with the OECF financing. May 1980 OECF loan agreement signed (7,800 million yen) For dredging and construction of breakwaters (including LNG. Pier) Dec. 1982 Construction completed The Deepwater Port of Bintulu was developed at the total cost of 34.5 billion yen and opened in 1985. Three Japanese experts cooperated on the port development during 1982-1985.			
4.REFERENCE NO.		The port of Bintulu in Sarawak was planned to become a loading port which handle LNG exported to Japan (total of 600 thousand tons since 1983) and fertilizer produced by the ASEAN-project. Because LNG is an important source of foreign exchange, the Malaysian government has completed D/D and invited tenders in order to complete the development of the port by the end of 1982. Because of the pressing schedule and technical difficulty of construction, the Malaysian government requested the assistance from Japan to expedite the project implementation. This study advised on site construction and engineering, and supervision and evaluation of tender documents.							
5.TYPE OF STUDY	Other								
6.COUNTERPART AGENCY	Bintulu Port Management Body, Ministry of Transport								
7.OBJECTIVES OF STUDY									
8.DATE OF S/W	.0								
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja	4.CONDITIONS AND DEVELOPMENT IMPACTS	Implementation of this project is expected to accelerate the development of related industries of LNG, promote regional economic development, and to improve the standard of living in the region.						
10.STUDY TEAM	No.of Members 4 Period Jan.1980-Feb.1980(2 months)								
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">5.60</td> <td style="text-align: center;">2.00</td> <td style="text-align: center;">3.60</td> </tr> </table>		Total M/M						Japan	Field
Total M/M	Japan	Field							
5.60	2.00	3.60							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER	2.MAJOR REASONS FOR PRESENT STATUS						
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION (1)(2)(4)							
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">14,481 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">10,389</td> </tr> </table>						Total	14,481 (¥'000)	Contracted	10,389
Total	14,481 (¥'000)								
Contracted	10,389								

和名 ビンツル港建設計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 202A/80

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Malaysia	1.SITE OR AREA	Kelantan, east coast of Peninsular Malaysia		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Kelantan Port Development Project	2.PROJECT COST	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 2)		(Description) A feasibility study was undertaken following the master plan phase of the study.							
3.SECTOR	Transportation/Port	3.CONTENTES OF MAJOR PROJECT(S)										
4.REFERENCE NO.		East coast area of Kelantan is economically the least developed and the only port is useless because of the deposition of silt and sand discharge. The basic objective of the project is the construction of a commercial and fishery port in the area. Recommended new facilities are: Commercial port area: Breakwater (970m, 840m), Breakwater (570m), Channel (-7.5m, -5.0m), Quay 2 Berths (-7.5m, 260m), Dolphin 1 Berth, Palm Oil Storage Tanks 4, Petroleum Product Storage Tanks 15. Fishery port area: Mooring facility (-3.0m, 290m, -2.0m, 175m), Wholesale facility 1, Cold Storage Freezing, Ice factory facility each 1 unit.										
5.TYPE OF STUDY	M/P+(F/S)	4.CONDITIONS AND DEVELOPMENT IMPACTS										
6.COUNTERPART AGENCY	Economic Planning Unit, Prime minister's Department (EPU)	Target years of future cargo handling volume were the years 1987, 2000. The estimation of cargo volume by commodity is based on GDP of the Kelantan including other development plans. This project is expected to promote industrialization in Kelantan, and to improve the standard of living of local population, especially fishermen.										
7.OBJECTIVES OF STUDY	Master plan, covering the period up to the year 2000, the First Phase Development Plan up to the year 1987, and the feasibility of the plan											
8.DATE OF S/W	May.1975											
9.CONULTANT(S)	Overseas Coastal Area Development Institute of Japan Kokusai Kougyo Co., Ltd.											
10.STUDY TEAM	No.of Members 12 Period Sep.1979-Feb.1981(0 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">85.63</td> <td style="text-align: center;">57.17</td> <td style="text-align: center;">28.46</td> </tr> </table>	Total M/M	Japan	Field			85.63	57.17	28.46			
Total M/M	Japan	Field										
85.63	57.17	28.46										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Boring Survey											
12.EXPENDITURE		5.TECHNICAL TRANSFER										
Total	190,122 (¥'000)	Deputy director and 3 persons accepted for training										
Contracted	180,720											
					2.MAJOR REASONS FOR PRESENT STATUS							
					3.PRINCIPAL SOURCE OF INFORMATION							
					①							

和名 ケランタン州港湾建設計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 202B/80

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Kelantan Port Development Project	Kelantan, east coast of Peninsular Malaysia					
3.SECTOR	Transportation/Port	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1) 40,113	20,254	19,859	(Description) The project was suspended after the completion of F/S due to the changes in port operation in Malaysia. Cargo was increasingly handled in Singapore, and the capacity expansion of Kelantan Port on the east coast became unnecessary for the time being. Although the provincial government hopes its early implementation, the Federal Government postponed the project indefinitely.	
5.TYPE OF STUDY	(M/P)+F/S	(US\$1=M\$2.2)	2)				
6.COUNTERPART AGENCY	Economic Planning Unit, Prime Minister's Department (EPU)	3)	3.CONTENTS OF MAJOR PROJECT(S)				
7.OBJECTIVES OF STUDY	Master plan, covering the period up to the year 2000, the First Phase Development Plan up to the year 1987, and the feasibility of the plan	The project develops the port as a distribution center and a base for coastal and offshore fishing boats. -Breakwater, channel and basin: depth -5.0--7.5m -Quay: depth -7.5m x 260m -Berths for fishing boats: depth -2.0m--3.0m -Fishing facilities (Open storage, cold storage) -Access road					
8.DATE OF S/W	May.1979	Imp. Period: Mar.1983-Dec.1987					
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Kokusai Kougyo Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 9.40 EIRR2) EIRR3)	FIRR1) 4.60 FIRR2) FIRR3)		
10.STUDY TEAM	No.of Members 12 Period Sep.1979-Feb.1981(17 months)	Conditions and Development Impacts: This project is expected to promote industrialization in Kelantan, and to improve the standard of living of Kelantan's people, especially fishermen by constructing a port as a physical distribution center for fishery and forestry products, and a coastal and pelagic fishery base.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					
12.EXPENDITURE	Total 190,122 (¥'000) Contracted 180,720	3.PRINCIPAL SOURCE OF INFORMATION					
		①					
		2.MAJOR REASONS FOR PRESENT STATUS					
		Changes in cargo flows.					

和名 ケラントアン州港湾建設計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 302/80

Compiled Mar.1986
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Beluru/Long Lama/Limbang Trunk Road Construction Project in Sarawak	Northern Sarawak Miri/Bintulu-Limbang segment					
3.SECTOR	Transportation/Road	2.PROJECT COST		Total Cost	Local Cost	(Description) (FY1992 Overseas Survey) 1. The Federal Government allocated RM 50 million under the 6th Malaysia Plan for the project, but the State Government readjusted its priority and allocated only RM 12 million. Detailed designs have been undertaken in stages by the State Public Works Dept. since 1980. The project design was changed regarding the trunk road from Beluru to Limbang. The development will be primarily focused on the stretch from Batang Tinjar to Long Lama. A pilot track is being designed in-house by the Dept. and is expected to be completed by the end of the 6th Malaysia Plan (1991-1995). 2. The present status of the road sections are as follows. Main road Beluru 19km (Status: sealed road) Beluru - Batang Tinjar 36.5 km (Status: gravel road) Batang Tinjar - Long Lama 25 km (Status: 5 km surveyed) Long Lama - Nganga Medamit (Status: sealed road, upgrading) Nganga Medamit - Limbang (Status: to be connected) 3. A new study on the development of a first class trunk road linking Sarawak and Sabah is being considered. The draft final report of another JICA study (Highway Network Development Plan) has been recently submitted, and its finalized version will be shortly considered by the Sarawak State Government for adoption. The report's new network development proposals may replace the earlier studies on road development in the State.	
4.REFERENCE NO.		(US\$1,000)	1) 2) 3)	84,383	84,383		
5.TYPE OF STUDY	F/S	3.CONTENTES OF MAJOR PROJECT(S)					
6.COUNTERPART AGENCY	Sarawak Economic Planning Unit Sarawak Public Works Dept.	Route improvement 69.5km New route construction 141.1km Feeder roads 49.8km(5 routes)					
7.OBJECTIVES OF STUDY	Road Plan	8.DATE OF S/W		Imp. Period: .1980-.1985			
8.DATE OF S/W	Feb.1978	9.CONULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS			
9.CONULTANT(S)	Pacific Consultants International	Feasibility: Yes		EIRR1) 10.10 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10.STUDY TEAM	No.of Members 13 Period Mar.1978-Mar.1980 (24 months)	Conditions and Development Impacts: (1) Project life : 20 years (2) Construction in 3 stages (3) At first, roads will remain unpaved. As the traffic volume increases, they will be paved.		Benefits include : (1) Agricultural development along both sides of roads (2) Promotion of forestry and manufacturing (3) Tourism development at and around G.Mulu National Park.		2.MAJOR REASONS FOR PRESENT STATUS	
Total M/M Japan Field 61.13 42.90 19.23		5.technical transfer				(FY1992 Overseas Survey) The State Government lowered the priority of the project. The newly completed JICA study may form the basis for a new policy for road network development in Sarawak.	
11.associated and/or subcontracted study		Transportation economics (mass transit)					
12.EXPENDITURE						①②	
Total 186,171 (¥'000) Contracted 141,135							

和名 サラワク幹線道路建設計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 303/80

Compiled Mar.1986

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																									
1.COUNTRY	Malaysia	1.SITE OR AREA				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		Kinabatangan River in Sabah State and Sadong River in Sarawak State																													
Flood Forecasting and Warning System in Sabah and Sarawak		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost																									
		(US\$1,000)		2,516	611	1,905																									
		(US\$1=220Yen)		1)	2)	3)																									
3.SECTOR		3.CONTENT(S) OF MAJOR PROJECT(S)				(Description) 1980-81 D/D undertaken by DID. 1985 Construction work completed by local fund (M\$700,000)																									
Social Infrastructures/River & Erosion Control		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">K River</th> <th style="text-align: center;">S River</th> <th style="text-align: center;">Total</th> </tr> </thead> <tbody> <tr> <td>Flood Forecasting Center</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Relay Station</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> </tr> <tr> <td>Monitor Station</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Telemeter Station</td> <td style="text-align: center;">7</td> <td style="text-align: center;">7</td> <td style="text-align: center;">14</td> </tr> <tr> <td>Transmission & Receiving Station</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> </tbody> </table>							K River	S River	Total	Flood Forecasting Center	1	1	2	Relay Station	2	1	3	Monitor Station	1	1	2	Telemeter Station	7	7	14	Transmission & Receiving Station	1	1	2
	K River	S River	Total																												
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Transmission & Receiving Station	1	1	2																												
4.REFERENCE NO.		Flood Forecasting Center Relay Station Monitor Station Telemeter Station Transmission & Receiving Station																													
5.TYPE OF STUDY																															
F/S																															
6.COUNTERPART AGENCY																															
Department of Irrigation and Drainage (DID)																															
7.OBJECTIVES OF STUDY		Imp. Period: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>4.FEASIBILITY AND ITS ASSUMPTIONS</th> <th>Feasibility:</th> <th>EIRR1)</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">Yes</td> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </tbody> </table> Conditions and Development Impacts: The purpose of the project is to establish systems and organizations to give flood forecasting and warning by analyzing hydrologic data obtained at the basins of Kinabatangan and Sadong Rivers. Desired results of the development are to foster harmonious growth of social and economic environment by mitigating direct and indirect flood damage and by resulting stability of livelihood of the people.				4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	EIRR1)	FIRR1)		Yes	EIRR2)	FIRR2)			EIRR3)	FIRR3)														
4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:					EIRR1)	FIRR1)																								
	Yes					EIRR2)	FIRR2)																								
						EIRR3)	FIRR3)																								
8.DATE OF S/W																															
Nov.1978																															
9.CONSULTANT(S)		2.MAJOR REASONS FOR PRESENT STATUS Drive forward setup of the other party country: The project cost is comparatively higher than the budget worked out by the department in charge, so that drive forward setup were slackened off.																													
CTI Engineering Co., Ltd.																															
10.STUDY TEAM																															
No.of Members 9 Period Oct.1979-Jul.1980(9 months)																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">19.16</td> <td style="text-align: center;">10.56</td> <td style="text-align: center;">8.60</td> </tr> </tbody> </table>						Total M/M	Japan	Field	19.16	10.56	8.60																				
Total M/M	Japan	Field																													
19.16	10.56	8.60																													
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer 1. OJT: out of the survey items, both counterparts and Japanese engineers were worked together in radio wave propagation test, etc. 2. Transfer of Equipment and Instruction: After through OJT																													
Radio Wave Propagation Test																															
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION ①																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Total</td> <td style="text-align: right;">57,134 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td style="text-align: right;">42,009</td> </tr> </tbody> </table>						Total	57,134 (¥'000)	Contracted	42,009																						
Total	57,134 (¥'000)																														
Contracted	42,009																														

和名 サバ・サラワク洪水予警報計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 203A/81

Compiled Mar.1986

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Malaysia	1.SITE OR AREA	Alor Setar and Kuala Kedah areas of State, bounded on Thailand in Northwest coast of the Malaysia Peninsula		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Sewerage and Drainage System Project in Alor Setar and its Urban Environs	2.PROJECT COST			Total Cost	
3.SECTOR	Public Utilities/Sewerage		(US\$1,000)	1)	47,673	38,421
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)	(US\$1=2.5M\$)	2)		
5.TYPE OF STUDY	M/P+(F/S)	There is no sewerage facilities in the project areas(Project area ; 3,300ha , Population: 140,000). Main problem in this area is the treatment of night soil. There are some drainage facilities, but flow capability is low, and thus inundation disaster frequently occurs. Contents of the projects are as follows:		(Description) F/S has been prepared based on this study.		
6.COUNTERPART AGENCY	Alor Setar Municipal Council Drainage and Irrigation Dept. (DID)	Sewerage system: Sewers : d225-1,050mm for 21,970m length Pumping Station: 2 stations Plant : 11,850cu.m/day (5strains, 88ha site) Others : Trucks, cleaning machines, experiment equipment Drainage system: main drainage channel, embankment, gate				
7.OBJECTIVES OF STUDY	Planning of sewerage and drainage system for improvement of life and sanitation conditions	4.CONDITIONS AND DEVELOPMENT IMPACTS		2.MAJOR REASONS FOR PRESENT STATUS		
8.DATE OF S/W	Oct.1978	Economic impacts of the project are prevention of inundation damages and water pollution control, decrease in infectious diseases, and increase in productivity, which, however, are difficult to be quantitatively scaled. The project, target year of 2000, is divided into 4 phases. Separate sewerage system with 5 sewage treatment plants (oxidation pond system) is selected. The inundation counter-plan, consisting of improvement of existing channels and reclamation, covered Kuala Kedah area (125ha).				
9.CONSULTANT(S)	Nihon Suldo Consultants Co., Ltd.	5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION		
10.STUDY TEAM	No.of Members 10 Period Feb.1979-Mar.1981(13 months)	1) Short term training program. 2) Employment of Local consultants for topographic survey. 3) Equipment granted and instructed for water quality test.				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY				①②		
12.EXPENDITURE						
	Total 236,999 (¥'000)					
	Contracted 232,245					

和名 アロースター下水道及び排水計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 203B/81

Compiled Mar.1986

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA		Priority area of Alor Setar (187 ha)		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	Sewerage and Drainage System Project in Alor Setar and its Urban Environs	2.PROJECT COST		Total Cost	Local Cost		
3.SECTOR	Public Utilities/Sewerage			(US\$1,000)	8,700	7,100	(Description) (FY1992 Overseas Survey) 1. Drainage Component (Drainage and Irrigation Dept.) Detailed design study was conducted with Federal Government fund for the priority areas (357 ha) of Phase 1 proposed by the JICA Study. RM 30.2 million was allocated in 1989 for the drainage component covering 187 ha (the Sungai Raja catchment area). The construction fell behind the schedule, and the Government cancelled the contract. The constructor was reported to be appealing against the cancellation (New Straits Times, March 12, 1993). 2. Sewerage Component (Municipal Council of Kota Setar; MPKS) A detailed design study was funded (RM 1 million) by the Federal government and carried out by a local engineering firm (SMHB) during Sept.1990 and Feb.1993. The JICA recommendations were modified. The study area was enlarged to include new growth areas (e.g. the Jalan Syed Putra area). Owing to the increased land acquisition costs in the past few years, the stabilization pond method proposed by the JICA Study was judged not cost-effective, and the aerated lagoon system was proposed for adoption. The Federal Government is now keen to attract private investments in infrastructural development. Although RM 40 million was allocated for the Alor Setar sewerage project under the 6th Malaysia Plan, the allocation was subsequently frozen pending the government's final decision on the proposals submitted by a private investor.
4.REFERENCE NO.				1)			
5.TYPE OF STUDY	(M/P)+F/S			2)			
6.COUNTERPART AGENCY	Alor Setar Municipal Council Drainage and Irrigation Dept. (DID)	3.CONTENTS OF MAJOR PROJECT(S)		3)			
7.OBJECTIVES OF STUDY	F/S of the sewerage and drainage system in the priority area	Project area : 187ha		Sewers : d225-1,050mm for Length= 22,000m			
8.DATE OF S/W	Oct.1978	Imp. Period: .1981-.1985		P/S : 2 stations(Q = 13-17cu.m/min)			
9.CONSULTANT(S)	Nihon Suido Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Plant : 1 Stabilization pond			
10.STUDY TEAM	No.of Members 10 Period Feb.1979-Mar.1981(13 months)	Feasibility: Yes		Drainage facilities: construction and improvement of existing main channels			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts: This study is to plan the wastewater treatment system and drainage system at the target year of 2000, based on the M/P together with the comments of Malaysian Government. As development impacts, especially economic impacts, water contamination control (agricultural water and seaside water) and decrease of inundation damages in rainy season are expected, although those are not quantitatively scaled. Management cost of planned facilities is lower than that of existing system of night soil treatment and community septic tanks, thus economical merit can be expected.		EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)			
12.EXPENDITURE	Total 236,999 (¥'000) Contracted 232,245	5. TECHNICAL TRANSFER		1) Short term training program (including site inspections) for two technical counterparts are under taken. 2) Reporting with counterparts (part of reports have been prepared during the training.)			
						2.MAJOR REASONS FOR PRESENT STATUS	
						(FY1992 Overseas Survey) There have been significant changes in the development of Alor Setar and the Federal Government policy on infrastructural development (i.e., privatization). Considering the considerable time lapse after the completion of the JICA Study, much of the study area and the proposals have to be redefined and restudied.	
						3.PRINCIPAL SOURCE OF INFORMATION	
						①②	

和名 アロースター下水道及び排水計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 304/81

Compiled Mar.1986
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	VHF/FM Broadcast Coverage for Peninsular Malaysia	Peninsular Malaysia					
3.SECTOR	Communications & Broadcasting/Broadcasting	2.PROJECT COST		Total Cost	Local Cost	(Description)	
4.REFERENCE NO.		(US\$1,000)	1) 39,265				
5.TYPE OF STUDY	F/S	US\$1=MS2.2	2)			(FY1992 Overseas Survey) 1. The implementation of the project was divided into three phases, and Phases 1 and 2 were completed with the Federal Government funds. The last phase consists of 5 stations in Peninsular Malaysia, 8 stations in Sabah and 11 stations in Sarawak and is being implemented with the Federal Government funds under the 6th Malaysia Plan. Phase 1: Jul.1983 - Dec.1985 (4 stations at RM 3 million) Phase 2: Dec.1987 - Dec.1990 (8 stations at RM 10 million) Phase 3: Construction expected to commence in 1993/94 pending the awarding of tenders (24 stations at RM 35 million) 2. The recommendations of the JICA study have been closely adhered to where feasible. But the project design or components proposed by the JICA study were changed in certain cases. For example, the transmitter power for Ulu Kali Station in Selangor (Phase 1) was increased from 500 watts to 1 kilowatt to ensure better reception over a wider area. The transmitter power was also increased to 5 kilowatts from 500 watts for Gunung Pulai, Johor and Gunung Jerai, and Kedah Stations (Phase 2).	
6.COUNTERPART AGENCY	Economic Planning Unit, Prime Minister's Dept. and Jabatan Telekom Malaysia	3.CONTENTS OF MAJOR PROJECT(S)					
7.OBJECTIVES OF STUDY	Examination of the possibility of establishing VHF broadcasting for the poor reception areas	The proposed project will introduce the VHF FM broadcasting system for poor reception areas in Peninsular Malaysia, making maximum use of the existing TV facilities. Major contents of the project are as follows. - Transmission: 15 sites (13 existing TV sites, 1 existing microwave site and 1 new site) - Station buildings: 11 new sites and 4 joint-use sites - Towers: 11 new sites and 4 joint-use sites					
8.DATE OF S/W	Jun.1980	Imp. Period:		EIRR1) 27.00	FIRR1) 8.80	2.MAJOR REASONS FOR PRESENT STATUS	
9.CONSULTANT(S)	Integrated Technology Inc. Japan Broadcasting Corporation	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR2) FIRR2) EIRR3) FIRR3)		
10.STUDY TEAM	No. of Members 12 Period Jun.1980-Feb.1981 (8 months) Total M/M Japan Field	Conditions and Development Impacts: Conditions: 1) The charges for TV commercial messages will be raised by 20% every 10 years. 2) The part of the costs will be financed by the government fund (annual growth rate of 8.14%). 3) The annual user charge will be raised from MS24 to MS40. 4) Project life of 10 years Development impacts: 1) Improvement of reception in the formerly poor-reception areas 2) Community development through improved access to TV broadcasting 3) cultural contribution				(FY1992 Overseas Survey) 1. A major reason is the Government's social obligation to ensure the radio coverage as wide as possible for dissemination of information. 2. The increased revenue from radio advertising encouraged the Government to fully implement the recommendations. 3. The demand for higher quality radio broadcast increased (especially after Phase 2) owing to the improved standard of living.	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER					
12.EXPENDITURE	Total 54,324 (¥'000) Contracted	1) On-the-job training 2) Participation of 2 counterparts in the JICA training program				3.PRINCIPAL SOURCE OF INFORMATION	
						①②	

和名 FM放送網整備計画

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

PROJECT SUMMARY (M/P)

ASE MYS/S 101/82

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Malaysia	1.SITE OR AREA	The entire country		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 Water Resources Study	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) Based on the recommendations of the study, a number of basin-wise master plan studies and feasibility studies have been undertaken, such as (1) Perlis-Kedah-Pulau Pinang Regional Water Resources, (2) Regional Water Resources of South Johor, (3) Beris Dam Development, (4) Kelang River Flood Control, (5) Pinang Island Flood Control, and (6) Kelantang Flood Control. Parts of (1), (2) and (3) above are going into implementation stages. This National Water Resources Study produced a significant achievement in terms of having formulated a framework of the nation's water resource development plan. Since then, almost 10 years have passed. The country has attained a remarkable economic development, and accordingly, the conditions/needs of water development and the use have much changed in these years. This suggests that there is a need of updating study for renewal of the country's water development/use plans.
3.SECTOR	Social Infrastructures/Water Resource Development	(US\$1,000)	1) 16,500,000	7,500,000	9,000,000	
4.REFERENCE NO.		(US\$1=2.5M\$)	2)			
5.TYPE OF STUDY	M/P	3.CONTENT(S) OF MAJOR PROJECT(S)				
6.COUNTERPART AGENCY	Economic Planning Unit, Drainage and Irrigation Dept., Public Works Dept., Division of Environment, etc.	The study determined the goals for water resource development through the year 2000, and proposed projects/programs to realize the goals. Major proposals are as follows. - Construction of multi-purpose dams - Inter-basin and inter-province water training - Hydro-power generation - Improvement of emission treatment at rubber factories and palm oil mills - Sewerage development in 31 cities - Flood control (river channel improvement, embankment, control dams, etc.)				
7.OBJECTIVES OF STUDY	Formulation of a long-term water resource development plan through 2000	4.CONDITIONS AND DEVELOPMENT IMPACTS				
8.DATE OF S/W	Feb.1979	The study proposed a nationally consistent strategy for water resource development and management up to the year 2000. 1) To increase potable and industrial water supply by upgrading water supply facilities 2) To raise the level of rice self-sufficiency by irrigation development 3) To increase power supply by hydro-power generation 4) To conserve water quality by the development of public sewerage 5) To reduce flood damages by improved flood control				
9.CONSULTANT(S)	International Engineering Consultants Association Nihon Koei Co., Ltd.	In order to facilitate the implementation, the study proposed institutional and legislative measures. 1) Legislation of the integrated national water resource development law by incorporating the existing laws and acts. 2) Establishment of water resource committees and water resource bureaus on the national and provincial government levels and a water resource public corporation which will implement the water resource development.				
10.STUDY TEAM	No.of Members 29 Period Oct.1979-Oct.1982 (0 months)	5.TECHNICAL TRANSFER				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		1) Participation of counterparts in the JICA training program, 2) OJT, and 3) In addition to the study team, two Colombo-Plan experts and one short-term expert were sent to Malaysia.				
12.EXPENDITURE	Total 863,961 (Y'000) Contracted 750,000	3.PRINCIPAL SOURCE OF INFORMATION				
		①				

和名 全国水資源開発計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 205A/82

Compiled Mar.1986
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS						
1.COUNTRY	Malaysia	1.SITE OR AREA	Kerang North, Kelang South, Port Kerang, North Port, Kapar and Meru		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued					
2.NAME OF STUDY	Sewerage and Drainage System Project in Kelang, Port Kelang and its Environs	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) A feasibility study followed the master plan study.					
3.SECTOR	Public Utilities/Sewerage	(US\$1,000)	1) 116,800								
4.REFERENCE NO.		(US\$1=MS2.5)	2) 204,400								
5.TYPE OF STUDY	M/P+ (F/S)	3.CONTENTS OF MAJOR PROJECT(S)									
6.COUNTERPART AGENCY	Kelang Town Council Drainage and Irrigation Department	Three-stage implementation programs up to 2,000 for drainage and sewerage systems construction.									
7.OBJECTIVES OF STUDY	Preparation of a master plan for Sewerage and drainage systems in urban areas.	1) Drainage facilities proposed include improvement of a total of 107km trunk drains, five retention ponds, a total of 11.5km bund, replacement of 26 tidal gates and installation of telemeter system. 2) Sewerage facilities to be constructed include 10 wastewater treatment plants, 12 pumping stations and a total of 113km trunk sewers.									
8.DATE OF S/W	Dec.1980	4.CONDITIONS AND DEVELOPMENT IMPACTS									
9.CONSULTANT(S)	Tokyo Engineering Consultants Co., Ltd.	Mitigation of damages caused by floods, improvement of public health condition and increase in property value will be anticipated through the implementation of the project. Intangible benefits, such as environmental improvement, are also expected.									
10.STUDY TEAM	No. of Members 10 Period Mar.1981-Dec.1982 (21 months)				2.MAJOR REASONS FOR PRESENT STATUS						
	<table style="margin: auto; border: none;"> <tr> <td style="padding: 0 10px;">Total M/M</td> <td style="padding: 0 10px;">Japan</td> <td style="padding: 0 10px;">Field</td> </tr> <tr> <td style="padding: 0 10px;">103.85</td> <td style="padding: 0 10px;">50.69</td> <td style="padding: 0 10px;">53.16</td> </tr> </table>	Total M/M	Japan	Field	103.85		50.69	53.16			
Total M/M	Japan	Field									
103.85	50.69	53.16									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					3.PRINCIPAL SOURCE OF INFORMATION						
12.EXPENDITURE		5. TECHNICAL TRANSFER									
	<table style="margin: auto; border: none;"> <tr> <td style="padding: 0 10px;">Total</td> <td style="padding: 0 10px;">240,305 (Y'000)</td> </tr> <tr> <td style="padding: 0 10px;">Contracted</td> <td style="padding: 0 10px;">231,199</td> </tr> </table>	Total	240,305 (Y'000)	Contracted	231,199	Training was provided for two local counterpart engineers, one from Mini. of Housing and Local Government and another from Kelang Municipality, in Japan during the course of the study.			①②		
Total	240,305 (Y'000)										
Contracted	231,199										

和名 クラン地域下水道・排水計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 205B/82

Compiled Mar.1986

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT											
1.COUNTRY	Malaysia	1.SITE OR AREA		1.PRESENT STATUS		<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input checked="" type="checkbox"/> Processing											
2.NAME OF STUDY	Sewerage and Drainage System Project in Kelang, Port Kelang and its Environs	Sewerage : Kelang North Drainage : Kelang North and Port Kelang		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">2.PROJECT COST</td> <td style="width: 15%;">Total Cost</td> <td style="width: 15%;">Local Cost</td> <td style="width: 15%;">Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td>7,200</td> <td></td> <td></td> </tr> <tr> <td>(US\$1=M\$2.5)</td> <td>22,400</td> <td>15,600</td> <td>6,800</td> </tr> </table>				2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(US\$1,000)	7,200			(US\$1=M\$2.5)	22,400
2.PROJECT COST	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	7,200																
(US\$1=M\$2.5)	22,400	15,600	6,800														
3.SECTOR	Public Utilities/Sewerage	3.CONTENTES OF MAJOR PROJECT(S)		(Description) (FY1992 Overseas Survey) 1. Drainage Component (Drainage and Irrigation Dept.) The proposals in the JICA Study were accepted by DID. The Federal Government has approved some funding as shown below, but the amount has been insufficient to implement all of the JICA recommendations. - A tidal gate is being constructed at Jalan Kem in Port Kelang - A new trunk drain was constructed (part of the 107 km of trunk drains proposed by the JICA Study) 2. Sewerage Component (Kelang Town Council) The data and maps, design calculations for the recommended projects and the type of materials proposed in the JICA report were used as guides by the Town Council. The Council is currently in the process of acquiring the land required to implement some of the JICA recommendations. Because of the lack of funds, many of these projects are under "keep in view" status. The Ministry of Works and Utilities of the Federal Government engaged consultants in 1992 to conduct a major study on the existing sewerage systems in Malaysia. Local governments were instructed by the Federal Government to place on hold all major sewerage projects pending the recommendations of the on-going study.													
4.REFERENCE NO.		1) Drainage : Trunk drains, 7,460m Tidal gate, 4 Bunds, 1,980m Telemeter system															
5.TYPE OF STUDY	(M/P)+F/S	2) Sewerage : Trunk sewers, dia. 375 - 1,200mm, 6,660m Branch and lateral sewers, 56,985m Kq. Kuantan pumping station, peak flow 23.7cu.m/min. Cannought wastewater treatment plant, oxidation pond 11,592cu.m/d															
6.COUNTERPART AGENCY	Kelang Town Council Drainage and Irrigation Department																
7.OBJECTIVES OF STUDY	Preparation of a feasibility study for sewerage and drainage system in urban areas.																
8.DATE OF S/W	Dec.1980	Imp. Period: .1983-.1990															
9.CONSULTANT(S)	Tokyo Engineering Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS															
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">EIRR1)</td> <td style="width: 15%;">FIRR1)</td> </tr> <tr> <td>Yes/No</td> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </table>						Feasibility:	EIRR1)	FIRR1)	Yes/No	EIRR2)	FIRR2)		EIRR3)	FIRR3)	
Feasibility:	EIRR1)	FIRR1)															
Yes/No	EIRR2)	FIRR2)															
	EIRR3)	FIRR3)															
		Conditions and Development Impacts: Improvement of public health condition and flood mitigation in the project area. The project contributes to the environmental improvement in and around the project area.															
10.STUDY TEAM	No.of Members 10 Period Mar.1981-Dec.1982 (21 months)																
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td>103.85</td> <td>50.69</td> <td>53.16</td> </tr> </table>	Total M/M	Japan	Field	103.85	50.69	53.16										
Total M/M	Japan	Field															
103.85	50.69	53.16															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic and leveling survey.	5. TECHNICAL TRANSFER															
		Training was provided for two local counterpart engineers, one from Mini. of Housing and Local Government and another from Kelang Municipality, in Japan during the course of the study.															
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION															
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">240,305 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>231,199</td> </tr> </table>	Total	240,305 (¥'000)	Contracted	231,199	①②											
Total	240,305 (¥'000)																
Contracted	231,199																

和名 クラン地域下水道・排水計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 204A/82

Compiled Mar.1986
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS						
1.COUNTRY	Malaysia	1.SITE OR AREA	Metropolitan area of Penang State		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued					
2.NAME OF STUDY	Urban Transport in Greater Metropolitan Areas of George Town, Butterworth and Bukit Mentajam	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) A feasibility study was subsequently conducted on the priority roads. (FY1992 Overseas Survey) JICA's Masterplan Study has essentially been utilized for urban transport planning in metropolitan Penang.					
3.SECTOR	Transportation/Road		(US\$1,000)	1)	434,000						
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)	US\$1=MS2.5	2)							
5.TYPE OF STUDY	M/P+ (F/S)	Long-term Plan: (1) construction of 25 sections (total 110.6km); (2) improvement of 21 sections (80.6km); (3) construction of 8 new separated interchanges; (4) improvement of 33 separated interchanges; and (5) construction of terminals High-priority projects: (1) Outer ring road from CBD to Ayar Itam (2) Outer ring road from Ayar Itam to the north coast (3) Improvement of the west coast road and Frai Bridge Bulmatampo (4) Widening of the Federal Route No. 1									
6.COUNTERPART AGENCY	Highway Planning Unit of the Ministry of Public Works										
7.OBJECTIVES OF STUDY	Highway development										
8.DATE OF S/W	Nov.1978										
9.CONSULTANT(S)	Central Consultant, Inc.	4.CONDITIONS AND DEVELOPMENT IMPACTS	The proposed plan will alleviate the worsening urban transport problems in metropolitan Penang caused by the rapid urbanization and industrialization and increase of automobile traffic. The plan will alleviate traffic congestions in the CBD of George Town and Butterworth, and provide low-income classes better access to low-cost transportation means. The implementation of short-term measures (introduction of better traffic control) will improve the safety of transportation. The plan will realize a high-mobility transportation system accessible from any part of the study area.				2.MAJOR REASONS FOR PRESENT STATUS (FY1992 Overseas Survey) The study was usefull and necessary as Penang undergoes a more intensive pace of industrialization. The traffic study was conducted carefully and the data that was provided was quite believable.				
10.STUDY TEAM	No.of Members 36 Period Jul.1979-May.1982 (34 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">109.94</td> <td style="text-align: center;">7.80</td> <td style="text-align: center;">102.14</td> </tr> </table>	Total M/M						Japan	Field	109.94	7.80
Total M/M	Japan	Field									
109.94	7.80	102.14									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION ①②					
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">497,100 (¥'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">470,259</td> </tr> </table>	Total	497,100 (¥'000)	Contracted	470,259						
Total	497,100 (¥'000)										
Contracted	470,259										

和名 ジョージタウン・バタワース道路計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 204B/82

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Malaysia	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY	Urban Transport in Greater Metropolitan Areas of George Town, Butterworth and Bukit Mentajam	1) area around George Town 2) area around Butterworth						
3.SECTOR	Transportation/Road	2.PROJECT COST		Total Cost	Local Cost	(Description) (FY1992 Overseas Survey) 1. The Federal Government has appointed new consultants in 1992 to review the JICA Study and undertake detailed engineering studies: ESA Jurutera Perunding and Zath Perunding for the Penang Outer Ring Road (ORR), and ECC or the Butterworth Ring Road (BRR). Under the 6th Malaysia Plan (1991 - 1995), the two studies have been allocated RM 10 million (ORR) and RM 41.7 million (BRR). 2. The TOR for the studies include feasibility study (including the review of the JICA F/S concerning the proposed alignments, geotechnic study, EIA, traffic volumes), detailed engineering design, and scheduling for tender and construction. For the Penang Outer Ring Road, the consultants are expected to prepare tender documents, while for the Butterworth Ring Road, construction of certain segments are included. 3. The costs of the two ring roads are estimated to total more than RM 200 million. The Federal Government will have to fund these projects, but is also considering the possibility of privatizing certain road segments.		
4.REFERENCE NO.		(US\$1,000)	1) 103,843	66,619	37,224			
5.TYPE OF STUDY	(M/P)+F/S	3.CONTENTES OF MAJOR PROJECT(S)				2. The TOR for the studies include feasibility study (including the review of the JICA F/S concerning the proposed alignments, geotechnic study, EIA, traffic volumes), detailed engineering design, and scheduling for tender and construction. For the Penang Outer Ring Road, the consultants are expected to prepare tender documents, while for the Butterworth Ring Road, construction of certain segments are included. 3. The costs of the two ring roads are estimated to total more than RM 200 million. The Federal Government will have to fund these projects, but is also considering the possibility of privatizing certain road segments.		
6.COUNTERPART AGENCY	Highway Planning Unit, Ministry of Public Works	1) Outer ring road of George Town (23.84km and 4 lanes)						
7.OBJECTIVES OF STUDY	Central Consultant, Inc. F/S on the highway development	2) Ring road of Butterworth (6 lanes in the section from the toll road of Route No.4 to Pulau interchange, and 4 lanes in other sections) which will serve to improve and restructure the existing transport system				2. The TOR for the studies include feasibility study (including the review of the JICA F/S concerning the proposed alignments, geotechnic study, EIA, traffic volumes), detailed engineering design, and scheduling for tender and construction. For the Penang Outer Ring Road, the consultants are expected to prepare tender documents, while for the Butterworth Ring Road, construction of certain segments are included. 3. The costs of the two ring roads are estimated to total more than RM 200 million. The Federal Government will have to fund these projects, but is also considering the possibility of privatizing certain road segments.		
8.DATE OF S/W	Nov.1978	Imp. Period: .1984-.1991 .1982-.1990						
9.CONSULTANT(S)	Central Consultant, Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) EIRR2) EIRR3)	2.MAJOR REASONS FOR PRESENT STATUS (FY1992 Overseas Survey) With rapid pace of development and industrialization, the traffic volume increased considerably in Penang and Butterworth over the past decade and will continue to grow in the future, with the expected completion of the North-South Highway and the linking up with the East-West Highway. Therefore, the implementation of the projects is essential to disperse and distribute the growing traffic.		
10.STUDY TEAM	No.of Members 24 Period Jul.1979-May.1982 (34 months)	Conditions and Development Impacts: 1) Project life of 25 years Start of service 1987 Opportunity cost 12% 2) Project life of 25 years Start of service 1988 Opportunity cost 12%						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION ①②		
12.EXPENDITURE								
		Total	497,100 (¥'000)					
		Contracted	470,259					

和名 ジョージタウン・バタワース道路計画 (フェーズII・ステージ1及びフェーズII・ステー

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

PROJECT SUMMARY (F/S)

ASE MYS/S 306/82

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA		Kinabatangan River Basin/Eastern Saba		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Kinabatangan River Basin Development Project	2.PROJECT COST		Total Cost	Local Cost		
		(US\$1,000)	1)	1,050,300	428,600	621,700	(Description) Indefinitely suspended after the completion of F/S, mainly owing to the lack of funds.
		(US\$1=230Yen=2.3M\$)	2)				
			3)				
3.SECTOR	Social Infrastructures/Water Resource Development	3.CONTENTES OF MAJOR PROJECT(S)					
4.REFERENCE NO.		Contents	Scope				
5.TYPE OF STUDY	F/S	Construction of dam (Midstream)	Volume of dam: 5.32 x 10cu.m Height: 50m approx.				
6.COUNTERPART AGENCY	Sabah Economic Planning Unit	Preparation of housing site	48,700ha (Area of land developed)				
7.OBJECTIVES OF STUDY	Water resource development (flood control, irrigation and power generation)	Generators	10.5MW (3 units)				
		Transmission line	100km				
8.DATE OF S/W	Oct.1979	Imp. Period:		Jul.1983-Dec.1992			
9.CONSULTANT(S)	CTI Engineering Co., Ltd. Chuo Kalhatsu Cor.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: No	EIRR1) 7.10 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10.STUDY TEAM	No.of Members 9 Period Dec.1980-Mar.1982(15 months)	Conditions and Development Impacts: The chief objective of the construction of a dam is flood control. A long abandoned waste land of 107,000ha because of flood damage will become suitable for agricultural development. The country will become rice export country instead. And power generation by the reservoir water is utilized for industrial development of Sandakan City, the second largest city in Saba.				2.MAJOR REASONS FOR PRESENT STATUS	
	Total M/M Japan Field 68.70 35.15 33.55					1. Difficulty of raising \$600 million in foreign currency. 2. Difficulty of adjusting the existing land use.	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Survey Geological Survey	5. TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE	Total 148,759 (¥'000) Contracted 138,406	1. Acceptance of Trainees: Visiting Asst. Director Chief engineer taken up study of basin development project for 3 weeks in Japan. 2. Preparation of Report: By harmonious cooperation, both counterparts and assisting Japanese engineers were completed study of mainly initial planning of power				①	

和名 キナバタンガン河流域開発計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 305/82

Compiled Mar.1990

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA		Total Cost Local Cost Foreign Cost		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing <input checked="" type="checkbox"/>
2.NAME OF STUDY	Reclamation Project of Ex-Mining Land for Housing Development and Other Purposes	Kuala Lumpur metropolitan area					
3.SECTOR	Social Infrastructures/Architecture & Housing	2.PROJECT COST				(Description) (FY1992 Overseas Survey) Owing to the changes in development policy, the project implementation was postponed indefinitely. The Ministry of Federal Territory, which had been the counterpart agency for the JICA study, was dissolved in 1985. Some ex-mining areas have been and are being developed as housing projects by the private sector.	
4.REFERENCE NO.		(US\$1,000)					
5.TYPE OF STUDY	F/S	US\$1=M\$2.2					
6.COUNTERPART AGENCY	Ministry of Federal Territory (dissolved in 1985)	1)					
7.OBJECTIVES OF STUDY	To examine the possibility of utilizing the ex-mining land for housing development	2)					
8.DATE OF S/W	Mar.1979	3)					
9.CONULTANT(S)	Kiso-Jiban Consultants Co., Ltd.	3.CONTENTIS OF MAJOR PROJECT(S)					
10.STUDY TEAM	No. of Members 7 Period Dec.1979-Mar.1981 (16 months)	The project aims to utilize the ex-mining area for developing low-cost housing projects in metropolitan Kuala Lumpur. During the first stage, it will be necessary to provide housing for 233,000 squatters (25% of the population of the Federal Territory), at a cost of US\$4,900 - 8,320 per unit. The following actions will be necessary before implementation. 1) To conduct the subsurface exploration in the ex-mining area to prepare a land classification map. 2) To formulate land use and housing development plans and thereby to improve the soft ground.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
12.EXPENDITURE	Total 135,700 (¥'000) Contracted 85,954	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: EIRR1) FIRR1) Yes EIRR2) FIRR2) EIRR3) FIRR3)			
		5.TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS	
		Conditions and Development Impacts: The ex-mining area occupies 14% of the land area of the Federal Territory. It is relatively easy to develop not only housing but also sewerage, green areas and parks, roads and other infrastructural facilities. The housing development for sale and rent at commercial prices will be feasible. At subsidized prices, low-story houses built on the firm ground will be feasible.				The development policy has been changed to privatize the development of the ex-mining areas.	
		1) Participation of the counterparts in the JICA training program 2) OJT					
						3.PRINCIPAL SOURCE OF INFORMATION	
						①②	

和名 錫嶺埋立跡地住宅開發計畫

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

PROJECT SUMMARY (M/P)

ASE MYS/S 102/83

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS						
1.COUNTRY	Malaysia	1.SITE OR AREA	Sections : Butterworth-Johor Bahru(West Coast Line) ; Kuala Lumpur-Kuantan-Kota Bharu (New East-West line)							
2.NAME OF STUDY	Railway Development Plan	2.PROJECT COST				(US\$1,000)	Total Cost 1) 4,635,600 2)	1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
3.SECTOR	Transportation/Railway	3.CONTENTES OF MAJOR PROJECT(S)	(Description) Following this study, a F/S was conducted in 1984 and 1985 on the proposed A-A as a master plan. The master plan has been utilized as a reference material for drawing up railway policies. The West Coast Line (Rawang-Seremban) is part of the Double Tracking Project now under implementation (OECF Loan).							
4.REFERENCE NO.		As alternatives for railway development, the four cases of A-A, B-B, C-B, and D-C were established. A-A was then proposed as the master plan having a target year of 2005. Case A-A : West Coast Line New East-West Line Standard gauge Standard gauge Electrification Electrification Double tracking Double tracking Case A-A EIRR 13.8% FIRR 9.4%								
5.TYPE OF STUDY	M/P	4.CONDITIONS AND DEVELOPMENT IMPACTS	Precondition : 1. Status of the world economy in the future and its impact 2. Highly accurate technical studies(especially, geological studies) 3. Methods for gradual implementation 4. Personnel training to raise level of technical expertise 5. Construction cost reduction and system for obtaining governmental assistance 6. Expansion of the scope of work and improvement in work efficiency. Development impacts : 1. More appropriate distribution of population and industries on a region - wide basis 2. Future development of such cities as Penang, Johor, Kota Bharu, Kuala Trenggana, and Kuantan, which are 300 to 500km from Kuala Lumpur, into regional centers as a result of the rail mode's advantageous intercity transport characteristics at the aforesaid distances 3. Energy savings 4. Large-Volume and fixed-pattern freight transport (iron, cement, oil, etc.) between key points possible							
6.COUNTERPART AGENCY	Malaysian Railway Administration	5. TECHNICAL TRANSFER				Investigations were conducted with the cooperation of counterparts. (Methods of investigation were transferred)				
7.OBJECTIVES OF STUDY	Drawing up of a M/P covering improvement, double tracking, and electrification of a conventional line and construction of a new standard line for reinforcing the national railway.	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	2.MAJOR REASONS FOR PRESENT STATUS							
8.DATE OF S/W	Apr.1982	12.EXPENDITURE				3.PRINCIPAL SOURCE OF INFORMATION ①				
9.CONSULTANT(S)	Japan Railway Technical Service	Total 585,109 (¥'000) Contracted 294,421								
10.STUDY TEAM	No.of Members 28 Period Sep.1982-Oct.1983(13 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">119.63</td> <td style="text-align: center;">79.48</td> <td style="text-align: center;">40.15</td> </tr> </table>	Total M/M	Japan	Field	119.63	79.48	40.15			
Total M/M	Japan	Field								
119.63	79.48	40.15								

和名 鉄道整備計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 307/83

Compiled Mar.1986
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																										
1.COUNTRY	Malaysia	1.SITE OR AREA		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">57,500</td> <td style="text-align: center;">36,500</td> <td style="text-align: center;">21,000</td> </tr> <tr> <td style="text-align: center;">(US\$1=250Yen)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">2)</td> <td style="text-align: center;">3)</td> </tr> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)	57,500	36,500	21,000	(US\$1=250Yen)	1)	2)	3)	1.PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing														
	Total Cost	Local Cost	Foreign Cost																													
(US\$1,000)	57,500	36,500	21,000																													
(US\$1=250Yen)	1)	2)	3)																													
2.NAME OF STUDY VHF/FM Broadcast Coverage for the States of Sabah and Sarawak		Saba and Sarawak																														
3.SECTOR Communications & Broadcasting/Broadcasting		3.CONTENTES OF MAJOR PROJECT(S)				(Description) (FY1992 Overseas Survey) 1. The implementation of the VHF/FM broadcast project was divided into three phases, and Phases 1 and 2 were completed with the Federal Government funds. Regarding East Malaysia, one station (Bukit Nyabau) was established during Phase 2. Of the total of 24 stations proposed for Phase 3, 8 stations are in Sabah and 11 stations in Sarawak and they are being implemented with the Federal Government funds under the 6th Malaysia Plan. Phase 1: Jul.1983 - Dec.1985 (4 stations at RM 3 million) Phase 2: Dec.1987 - Dec.1990 (8 stations at RM 10 million) Phase 3: Construction expected to commence in 1993/94 pending the awarding of tenders (24 stations at RM 35 million) 2. The recommendations of the JICA study have been closely adhered to where feasible. But the project design or components proposed by the JICA study were changed in certain cases. Regarding East Malaysia, three stations of Bukit Setiam (Bintulu), Mukit Tiang (Lawas) and Bukit Lima (Sibu) have been added to the original eight proposed by the JICA study. One more station (Sigapon near Keningau) has been added in Sabah.																										
4.REFERENCE NO.		- FM transmitting stations(22 stations): 7 new stations; 15 stations to be attached to the existing TV stations - Construction of FM studio - FM transmitters: 6 units for each transmitting stations																														
5.TYPE OF STUDY								F/S																								
6.COUNTERPART AGENCY								Economic Planning Unit, Prime Minister's Department Jabatan Telekom Malaysia																								
7.OBJECTIVES OF STUDY		8.DATE OF S/W						2.MAJOR REASONS FOR PRESENT STATUS (FY1992 Overseas Survey) 1. A Major reason is the Government's social obligation to ensure the radio coverage as wide as possible for dissemination of information. 2. The increased revenue from radio advertising encouraged the Government to fully implement the recommendations. 3. The demand for higher quality radio broadcast increased (especially after Phase 2) owing to the improved standard of living.																								
8.DATE OF S/W		Mar.1982		Imp. Period:																												
9.CONSULTANT(S)		Integrated Technology Inc.		4.FEASIBILITY AND ITS ASSUMPTIONS				3.PRINCIPAL SOURCE OF INFORMATION ①②																								
10.STUDY TEAM		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">No.of Members</td> <td style="width: 15%;">14</td> <td colspan="2"></td> </tr> <tr> <td>Period</td> <td>Jun.1982-Mar.1983(10 months)</td> <td colspan="2"></td> </tr> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> <td></td> </tr> <tr> <td style="text-align: center;">22.00</td> <td style="text-align: center;">18.67</td> <td style="text-align: center;">3.33</td> <td></td> </tr> </table>		No.of Members	14							Period	Jun.1982-Mar.1983(10 months)			Total M/M	Japan	Field		22.00	18.67	3.33		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">EIRR1)</td> <td style="width: 15%;">FIRR1)</td> </tr> <tr> <td style="text-align: center;">Yes</td> <td style="text-align: center;">EIRR2)</td> <td style="text-align: center;">FIRR2)</td> </tr> <tr> <td></td> <td style="text-align: center;">EIRR3)</td> <td style="text-align: center;">FIRR3)</td> </tr> </table>		Feasibility:	EIRR1)	FIRR1)	Yes	EIRR2)	FIRR2)	
No.of Members	14																															
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Total M/M	Japan	Field																														
22.00	18.67	3.33																														
Feasibility:	EIRR1)	FIRR1)																														
Yes	EIRR2)	FIRR2)																														
	EIRR3)	FIRR3)																														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts: FM broadcasting will contribute to the improvement of education and the diffusion of knowledge and skills.																														
12.EXPENDITURE		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">55,208 (¥'000)</td> <td colspan="2"></td> </tr> <tr> <td>Contracted</td> <td>32,256</td> <td colspan="2"></td> </tr> </table>		Total	55,208 (¥'000)			Contracted	32,256			5.technical transfer																				
Total	55,208 (¥'000)																															
Contracted	32,256																															
		1) OJT during the study 2) Participation of 2 counterparts in the JICA training program																														

和名 東マレイシアFM放送網整備計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 206A/84

Compiled Mar.1990

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Malaysia	1.SITE OR AREA	Johor Bahru Urban 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 JB-Transplan:Road Construction and Improvement Project in Johor Bahru and its Conurbation		2.PROJECT COST (US\$1,000)			(Description) A feasibility study was subsequently conducted on four priority projects. The Masterplan was adopted as part of the Johor Bahru Structure Plan.	
3.SECTOR Transportation/Road		Total Cost Local Cost Foreign Cost 1) 2)				
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)				
5.TYPE OF STUDY M/P+(F/S)		1) Road development plan 2) Public transportation plan 3) Transportation terminals 4) Traffic control 5) Improvement of Johor Bahru causeway				
6.COUNTERPART AGENCY Economic Planning Unit Public Works Dept., Johor		4.CONDITIONS AND DEVELOPMENT IMPACTS				
7.OBJECTIVES OF STUDY Formulation of the integrated transport system through the year 2000		The study proposed the integrated transportation system (JB-Transplan) toward the target year of 2000.				
8.DATE OF S/W Jan.1981		10.STUDY TEAM				
9.CONSULTANT(S) Fukuyama Consultants International, Inc. Chodai Co., Ltd.		No.of Members 11 Period May.1981-Dec.1983(0 months)				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY geological survey topographic survey		Total M/M Japan Field				
12.EXPENDITURE		5.TECHNICAL TRANSFER				
Total 443,511 (¥000) Contracted 223,742		3.PRINCIPAL SOURCE OF INFORMATION				
		2.MAJOR REASONS FOR PRESENT STATUS ①②				

和名 ジョホールバル道路交通計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 206B/84

Compiled Mar.1988
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	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	JB-Transplan:Road Construction and Improvement Project in Johor Bahru and its Conurbation	Johor Bahru and its adjacent areas					
3.SECTOR	Transportation/Road	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description) (FY1992 Overseas Survey) 1. The Public Works Department appointed consultants to undertake a detailed design study of the Inner Ring Road and Trolley Route Project during the period of 1992 - 1993. The implementation is scheduled to begin in Aug. 1993 and to end in 1999. 2. Two other projects, i.e., the Johor Bahru - Pasir Gudang Southern Link which was listed in the 6th Malaysia Plan and the New Access Road to Johor Bahru Toll Road, have been held in abeyance owing to the shortage of funds. 3. In relation to the proposed traffic separation on the causeway (i.e., improvement of the existing causeway), the detailed design was completed. Moreover, the Government has announced a proposal to build a second causeway. 4. Some short-term JICA recommendations to improve the traffic situation in Johor Bahru have been implemented. For instance, Jalan Wong Ah Fook and Jalan Tun Razak major roads in the CBD were turned into one-way streets.
4.REFERENCE NO.		(US\$1,000)		155,457	100,652	54,804	
5.TYPE OF STUDY	(M/P)+F/S	US\$1=MS\$2.3		1)	2)	3)	
6.COUNTERPART AGENCY	Economic Planning Unit Public Works Detp., Johor	3.CONTENTS OF MAJOR PROJECT(S)					
7.OBJECTIVES OF STUDY	Feasibility analysis of priority projects proposed by the master plan	1) Construction of new road Johor Bahru - South Pasir Gudang (20km) 2) Traffic separation on the causeway improvement of the existing road (310ha in CBD) 3) Construction of new access road to Johor Bahru Toll Road (4km) 4) Inner ring road and trolley routes New construction and improvement (8km)					
8.DATE OF S/W	Jun.1982	Imp. Period: .1985-.2000					
9.CONSULTANT(S)	Fukuyama Consultants International, Inc. Chodai Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM	No.of Members 11 Period May.1981-Dec.1983(19 months)	Conditions and Development Impacts:					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	geological survey topographic survey	Conditions: The calculation of IRR is based on the O/D motorized traffic projections made during the master plan study on the basis of the interview survey of owner drivers. The projections were made for the years 1990 and 2000. Road classes were determined according to the standards of the Ministry of Public Works. Development impacts: The projects will contribute to the development of new industries and port operations, the alleviation of traffic congestions in the CBD, and shortening of travel time, reduction of transportation costs and decrease of traffic accidents.					
12.EXPENDITURE	Total 443,511 (¥'000) Contracted 223,742	5.technical transfer					
		OUT for the counterparts on feasibility analysis				2.MAJOR REASONS FOR PRESENT STATUS	
						(FY1992 Overseas Survey) As Johor Bahru develops, it is imperative that a comprehensive transport plan be developed to ease the traffic congestion in the town area and its urban environs. As such, many M/P proposals will eventually be implemented.	
						3.PRINCIPAL SOURCE OF INFORMATION	
						①②	

和名 ジョホールバル道路交通計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 308/84

Compiled Mar.1988
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																												
1.COUNTRY	Malaysia	1.SITE OR AREA	Perlis			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	Perlis Port Development Project	2.PROJECT COST	1) (US\$1,000)	2) (US\$1=2.3MS)	3) Total Cost 2,473	Local Cost 2,100	Foreign Cost																																											
3.SECTOR	Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">(Item)</th> <th style="width: 10%;">(Quantity)</th> <th colspan="3"></th> <th></th> </tr> </thead> <tbody> <tr> <td>Quay (-4.0m)</td> <td style="text-align: center;">410m</td> <td colspan="3"></td> <td></td> </tr> <tr> <td>" (-3.5m)</td> <td style="text-align: center;">550m</td> <td colspan="3"></td> <td></td> </tr> <tr> <td>Dredging</td> <td style="text-align: center;">1,412 thousand cu.m</td> <td colspan="3"></td> <td></td> </tr> <tr> <td>Reclamation</td> <td style="text-align: center;">1,086 "</td> <td colspan="3"></td> <td></td> </tr> <tr> <td>Revetment</td> <td style="text-align: center;">1,000m</td> <td colspan="3"></td> <td></td> </tr> <tr> <td>Road</td> <td style="text-align: center;">51,950m</td> <td colspan="3"></td> <td></td> </tr> </tbody> </table>					(Item)	(Quantity)					Quay (-4.0m)	410m					" (-3.5m)	550m					Dredging	1,412 thousand cu.m					Reclamation	1,086 "					Revetment	1,000m					Road	51,950m					(Description) (FY1992 Overseas Survey) Oct.1985 OECF loan pledged Nov.1985 E/S was signed, but the loan agreement fell through. 1987 Malaysian Government financed a detailed design study. (the project estimated to cost RM 31 million) The implementation was delayed, but the project was included in the National Port Plan announced in 1988. 1988-1989 A detailed design study was conducted but on a reduced scale. The lowest tender was considerably higher than the budgeted amount and the project implementation stalled. 1990 Owing to the shortage of funds, the Government took a temporary measure of implementing a detailed design study of only the extension of the existing passenger jetty. Mar.1993 The passenger jetty extension is under implementation by the Public Works Dept. at a cost of RM 23.39 million and is expected to be completed by Dec.1993, in time for the Langkawi International Maritime and Air Exhibition.
(Item)	(Quantity)																																																	
Quay (-4.0m)	410m																																																	
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Reclamation	1,086 "																																																	
Revetment	1,000m																																																	
Road	51,950m																																																	
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) EIRR2) EIRR3)	9.90	FIRR1) FIRR2) FIRR3)	4.10																																											
5.TYPE OF STUDY	F/S	Conditions and Development Impacts: As premises, target years of demand forecast are the year 1990, 2000, and cargo handling volume was assumed to be 500 thousand ton, 835 thousand ton. The area surrounding the port have mining and manufacturing industries such as cement and sugar refining, and development of industrial tracts in these areas is now in progress. It's expected that expansion of the port's commercial function will result in accelerated local and regional development. Expansion of the fishing port and ferry function should also have positive effects.																																																
6.COUNTERPART AGENCY	Economic Planning Unit Public Works Dept., Ministry of Transport	5.TECHNICAL TRANSFER																																																
7.OBJECTIVES OF STUDY	Master plan, covering the period up the 2000. Short Term Development Plan up to the year 1990.	One counterpart was accepted for training, especially on F/S theory																																																
8.DATE OF S/W	Mar.1983	Imp. Period: Jan.1985-Dec.1989																																																
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja																																																	
10.STUDY TEAM	No.of Members 9 Period Jun.1983-Mar.1984 (9 months) <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Total M/M</th> <th style="width: 30%;">Japan</th> <th style="width: 30%;">Field</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">46.83</td> <td style="text-align: center;">29.00</td> <td style="text-align: center;">17.83</td> </tr> </tbody> </table>	Total M/M	Japan	Field	46.83	29.00	17.83	2.MAJOR REASONS FOR PRESENT STATUS			The project cost was too large, and the Government was financially constrained.																																							
Total M/M	Japan	Field																																																
46.83	29.00	17.83																																																
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Natural Condition Survey 36,461 thousand yen																																																	
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">145,809 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>142,594</td> </tr> </tbody> </table>	Total	145,809 (¥'000)	Contracted	142,594	3.PRINCIPAL SOURCE OF INFORMATION			①②																																									
Total	145,809 (¥'000)																																																	
Contracted	142,594																																																	

和名 ペルリス港開発計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 309/84

Compiled Mar.1988

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA		Belis River, Muda River basin, the state at koda		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"/> Delayed or Suspended <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Perlis-Kedah-Pulau Pinang Regional Water Resources(National Water Resources Study)	2.PROJECT COST		Total Cost	Local Cost		
3.SECTOR	Social Infrastructures/Water Resource Development			1) 41,800	32,950	8,850	
4.REFERENCE NO.				2)			
5.TYPE OF STUDY	F/S			3)			
6.COUNTERPART AGENCY	Economic Planning Unit	3.CONTENTES OF MAJOR PROJECT(S)		(US\$1,000) (US\$1=2,312M\$)			
7.OBJECTIVES OF STUDY	Water resources development	Structure Scale Gravity dam Height 41m Reservoir Effective storage 102MCM Firm yield 66MCM/year Discharge capacity of outline facilities 0.2-15cu.m/s					
8.DATE OF S/W	Sep.1982	Imp. Period: Jun.1987-Dec.1989		(Description) Indefinitely suspended after the completion of F/S, owing to the budgetary constraints.			
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Ohba Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS					Feasibility: Yes
10.STUDY TEAM	No.of Members 20 Period Dec.1982-Mar.1985(28 months)	Conditions and Development Impacts: Baris dam was designed as a part of water supply system in P.K.P areas. Firm yield is mainly divided into irrigation water, industrial water and river maintenance flow on the basis of the overall water distribution plan of P.K.P.area. The project benefit was estimated as the sum of the benefit per unit yield for the respective purposes. Firm yield of 66MCM/year is supplied to the water deficit in the P.K.P. area.		2.MAJOR REASONS FOR PRESENT STATUS 1) Austerity policy necessitated by fiscal deficits. 2) Inter-provincial adjustments are not settled between Penang and Kedah.			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic mapping	5.TECHNICAL TRANSFER					3.PRINCIPAL SOURCE OF INFORMATION ①
12.EXPENDITURE	Total 471,245 (¥'000) Contracted 166,915	1) training in Japan 2) Survey by local consultant: soil and geological investigations					

和名 ペルリス・ケダ・ブラウピナン地域水資源開発計画

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

PROJECT SUMMARY (F/S)

ASE MYS/A 301/84

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT			
1.COUNTRY	Malaysia	1.SITE OR AREA		Bengkoka Area of the state of Sabah(36,000ha)		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Discontinued or Cancelled		
2.NAME OF STUDY		2.PROJECT COST		Total Cost	Local Cost			Foreign Cost	
Afforestation and Settlement Project in Division V of the Bengkoka Area of the State of Sabah		1) 90,783 2) 76,087 3) 14,696		3.CONTENTES OF MAJOR PROJECT(S)		(Description) (FY1992 Overseas Survey) 1. The Bengkoka Afforestation and Settlement Project (BASP) was started in 1979 with the objective to reforest 36,000 ha in the Bengkoka area and resettle 2,000 families. To date, divisions I - III with over 10,000 ha, including a nursery in Division IV, have been developed by the government funds and a World Bank loan. 2. Sabah Forestry Development Authority (SAFODA) was keen to obtain a loan to develop Division V, and prepared an implementation program (sometime after Nov. 1984). But the project implementation was held off because of yen appreciation. 3. Another master plan study was commissioned and completed in 1989, and it estimated a cost of about US\$ 50 million (including the cost of a chip board mill) to reforest an area of 50,000 ha. 4. SAFODA is currently negotiating with a Japanese consortium to develop Bengkoka into a commercial reforestation project for pulp wood. SAFODA is also undertaking research on acacia mangium.			
				3.SECTOR				Tree species : Acacia monaquim(9,000ha)	
				Forestry/Forestry & Forest Conservation				Infrastructure arrangement : Trunk road 46km Branch road 135km Power distribution Water supply facilities Settlement 3,000 immigrants for 400 households at project site	
4.REFERENCE NO.		5.TYPE OF STUDY		*The cost above pertains to the entire period of 50 years.		2.MAJOR REASONS FOR PRESENT STATUS (FY1992 Overseas Survey) 1. Inability to obtain an appropriate type of financing 2. The IRR was low and the project area was small in the original proposal (Division V), and hence, the economy of scale was difficult to achieve.			
6.COUNTERPART AGENCY		F/S		4.FEASIBILITY AND ITS ASSUMPTIONS					
Sabah Forest Department Sabah Forestry Development Authority (SAFODA)		7.OBJECTIVES OF STUDY		Feasibility: Yes		3.PRINCIPAL SOURCE OF INFORMATION ①②			
To promote tree plantation and settlement of people on degraded forest land caused by shifting cultivation and so forth.		8.DATE OF S/W		EIRR1) 16.10 EIRR2) EIRR3)					
Sep.1983		9.CONSULTANT(S)		FIRR1) 11.50 FIRR2) FIRR3)		5.TECHNICAL TRANSFER Acceptance of one C/F participant			
Japan Overseas Forestry Consultants Association		10.STUDY TEAM		Conditions and Development Impacts: -Settlement of shifting cultivator, improvement of local people's income and improvement of forest resources -FIRR is calculated only for the afforestation phase -Annual cash income will be in the black 17 years after cutting starts and cumulated deficit will solve after 22 years					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		No.of Members 9 Period Feb.1984-Sep.1984 (8 months)		Total M/M Japan Field		12.EXPENDITURE Total 122,966 (Y'000) Contracted 111,470			
12.EXPENDITURE		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					

和名 サバ州ベンコカ地区造林・入植計画

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

PROJECT SUMMARY (M/P)

ASE MYS/S 103/85

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1.COUNTRY	Malaysia	1.SITE OR AREA	Southern part of Trengganu State (5,370 sq.km, approx. one third of the state total land 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	Integrated Development of South Trengganu	2.PROJECT COST					
3.SECTOR	Development Plan/Integrated Regional Development Plan	3.CONTENTS OF MAJOR PROJECT(S)			(Description) (FY1992 Overseas Survey) 1. When the study was being undertaken, decentralization of industries was one of the most important policies in Malaysia. Around 1986, the policy emphasis shifted to industrial concentration in urban areas. Trengganu State is well endowed with petroleum and natural gas, and the government emphasis in regional development was placed on more underdeveloped states. 2. The recommendations of the Study are utilized as guidelines for planning in the State of Trengganu. So far, the following two studies have been conducted following the recommendations. (i) Dungun Structural Plan (ii) Upgrading the Management of South Trengganu 3. In Trengganu State, there are three high level committees which have been formed in relation to the said development plan. (i) Petroleum Industry and Manpower Committee (ii) Agriculture and Fishing Committee (iii) State Planning Committee		
4.REFERENCE NO.		1) Industry: industries utilizing petroleum and natural gas 2) Agriculture: development of the inland area (Ketangah) 3) Transportation: roads, airports, ports, etc. 4) Flood control: major rivers and the coastline 5) Tourism: coastal and inland areas 6) Urban development: development in association with coastal industrial location 7) Human resource development: politechnics, R & D organization and vocational training centers * The proposed projects are not costed.					
5.TYPE OF STUDY	M/P						
6.COUNTERPART AGENCY	Trengganu State Economic Planning Unit						
7.OBJECTIVES OF STUDY	Formulation of an integrated regional development plan and pre-feasibility analysis of priority projects						
8.DATE OF S/W	Apr.1982						
9.CONSULTANT(S)	Pacific Consultants International Mitsubishi Research Institute	4.CONDITIONS AND DEVELOPMENT IMPACTS					
10.STUDY TEAM	No.of Members 22 Period Jan.1984-Aug.1985 (19 months) <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> </table>	Total M/M	Japan	Field	Development impacts: 1) Maximum utilization of local resources 2) Urban and rural development for stable labor supply and settlement		
Total M/M	Japan	Field					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS		
		1) Participation of counterparts in the JICA training program 2) OJT for the counterparts through joint undertaking of the study			The Federal and the State Governments' policy.		
12.EXPENDITURE	Total 295,164 (¥'000) Contracted						3.PRINCIPAL SOURCE OF INFORMATION
					①②		

和名 トレンガヌ南部地域総合開発計画

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

PROJECT SUMMARY (M/P)

ASE MYS/S 104/85

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS						
1.COUNTRY	Malaysia	1.SITE OR AREA	Sayong Dam (Kota Tinggi district)			1.PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input checked="" type="checkbox"/> Discontinued				
2.NAME OF STUDY	Regional Water Resources of South Johor (National Water Resources Study)	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) The State Government had seriously considered building the Sayong Dam following the recommendations of the JICA Study. However, a subsequent study commissioned by the Federal and Singapore governments recommended instead the construction of the Linggiu Dam because of its larger water retention capacity. The Linggiu Dam was considered as the next best alternative after the Sayong Dam in the JICA Study. Therefore, the Sayong Dam appears unlikely to be built to the scale proposed by the JICA Study. The water resources available at Sayong will nonetheless still be tapped pending the Federal Government's decision to build a weir at the site.					
3.SECTOR	Social Infrastructures/Water Resource Development	(US\$1,000)	1) 168,000								
4.REFERENCE NO.		(US\$1=2.41M\$)	2)			2.MAJOR REASONS FOR PRESENT STATUS The Federal and the State Governments' policy decision on the other alternative.					
5.TYPE OF STUDY	M/P	3.CONTENTES OF MAJOR PROJECT(S)									
6.COUNTERPART AGENCY	Economic Planning Unit (EPU), Drainage and Irrigation Department (DID), and Public Works Dept. (PWD)	Sayong Dam : Gross storage volume: 176 x 1,000,000 sq.m Effective storage volume: 128 x 1,000,000 cu.m Dam height: 31 m Dam length: 1,140 m Embankment volume: 0.81 x 1,000,000 cu.m				3.PRINCIPAL SOURCE OF INFORMATION ①②					
7.OBJECTIVES OF STUDY	To formulate a Master plan for development of water resources in South Johor	4.CONDITIONS AND DEVELOPMENT IMPACTS									
8.DATE OF S/W	Mar.1984	1) To formulate a water supply plan up to the year 2005 for Johor Bahru and Singapore. 2) To improve human living conditions by the development of domestic and industrial water. 3) To ensure stable economic and social activities by implementing flood control measures.				5. TECHNICAL TRANSFER 1) One trainee from Malaysia took JICA training course. 2) Instruction on the production of report and analysis of boring log (geological study)					
9.CONSULTANT(S)	Nihon Koei Co., Ltd. CTI Engineering Co., Ltd. System Science Consultants	10.STUDY TEAM									
		No.of Members 20 Period Jul.1984-Dec.1985 (18 months)				6. ASSOCIATED AND/OR SUBCONTRACTED STUDY Boring survey (financed by GDHT)					
		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Total M/M</th> <th style="text-align: left;">Japan</th> <th style="text-align: left;">Field</th> </tr> </thead> <tbody> <tr> <td style="text-align: right;">107.31</td> <td style="text-align: right;">65.22</td> <td style="text-align: right;">42.09</td> </tr> </tbody> </table>						Total M/M	Japan	Field	107.31
Total M/M	Japan	Field									
107.31	65.22	42.09									
12.EXPENDITURE						7. ASSOCIATED AND/OR SUBCONTRACTED STUDY Boring survey (financed by GDHT)					
						8. EXPENDITURE <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">294,504 (¥'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">235,835</td> </tr> </tbody> </table>		Total	294,504 (¥'000)	Contracted	235,835
Total	294,504 (¥'000)										
Contracted	235,835										

和名 南ジョホール地域水資源開発計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 310/85

Compiled Mar.1988
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT														
1.COUNTRY	Malaysia	1.SITE OR AREA		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="text-align: center;">Total Cost</td> <td style="text-align: center;">Local Cost</td> <td style="text-align: center;">Foreign Cost</td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">643</td> <td style="text-align: center;">381</td> <td style="text-align: center;">262</td> </tr> <tr> <td style="text-align: center;">(US\$1=MS\$2,376)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">2)</td> <td style="text-align: center;">3)</td> </tr> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)	643	381	262	(US\$1=MS\$2,376)	1)	2)	3)	1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing	
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	643	381	262																	
(US\$1=MS\$2,376)	1)	2)	3)																	
2.NAME OF STUDY	Tatau-Kapit, Sarawak																			
Tatau-Kapit TrunkRoad Project in Sarawak		2.PROJECT COST		(Description) (FY1992 Overseas Survey) In the 6th Malaysia Plan, RM 2 million is allocated for the project, but the amount is not adequate to implement the entire project (138.8 km). No attempt has been made to undertake a detailed design study and the State Government has requested that the allocated budget be used elsewhere. The project is deemed discontinued.																
3.SECTOR	Transportation/Road	3.CONTENTS OF MAJOR PROJECT(S)																		
4.REFERENCE NO.		Construction of a new trunk road (138.8km)																		
5.TYPE OF STUDY	F/S																			
6.COUNTERPART AGENCY	Economic Planning Unit, Sarawak State Government of Malaysian Federal Government																			
7.OBJECTIVES OF STUDY	(1) Analysis of economic and technological merit (2) Technical transfer																			
8.DATE OF S/W	Feb.1982	Imp. Period: .1982-.1984																		
9.CONSULTANT(S)	Mitsui Consultants Co., Ltd. Pasco International Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 5.89 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)															
10.STUDY TEAM	No.of Members 16 Period Jul.1982-Dec.1982 (10 months) May.1984-Aug.1984 Total M/M Japan Field 26.38 15.50 10.88	Conditions and Development Impacts: This project contributes not only to the provision of access road for the construction of the hydro-electric power station, but also to the development of lumber, mineral and tourism industries.		2.MAJOR REASONS FOR PRESENT STATUS																
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY				The Sarawak State government has accorded low priority to the project.																
12.EXPENDITURE	Total 241,601 (Y'000) Contracted 134,850	5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION																
		(1) Reception of trainees (2) Hiring of local consultants in the sectors of designing and survey.		①②																

和名 タタウ・カピト幹線道路計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 311/85

Compiled Mar.1988
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	New East-West Railway Project and the West Coast Railway Project	Between the eastern and western regions of the country and regions along the western coast					
3.SECTOR	Transportation/Railway	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1)	1,231,000	355,000	876,000	
5.TYPE OF STUDY	F/S		2)	4,010,000	2,039,000	1,971,000	
6.COUNTERPART AGENCY	Malaysian Railway Administration		3)				
7.OBJECTIVES OF STUDY	F/S for constructing on east-west line that connects the eastern coast and the capital Kuala Lumpur and a western line that runs in parallel with a conventional line along the western coast	3.CONTENTS OF MAJOR PROJECT(S)				(Description) Although part of double tracking for the western line is under way, this project was cancelled because of the implementation of the south-north line.	
8.DATE OF S/W	Feb.1984	-East-West line construction----558km (electrification, double track, standard gauge)					
9.CONSULTANT(S)	Japan Railway Technical Service	-Western line construction----736km (electrification, double track, standard gauge)				2.MAJOR REASONS FOR PRESENT STATUS The Government changed its policy.	
10.STUDY TEAM	No. of Members 16 Period Jun.1984-Dec.1985 (18 months)	4.FEASIBILITY AND ITS ASSUMPTIONS					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Imp. Period: 1986-2009		Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
12.EXPENDITURE	Total 241,488 (¥'000) Contracted 235,765	Conditions and Development Impacts: 1. Preconditions Transport demand was estimated for the years 1991, 1996, 2001, and 2005. Passenger traffic was estimated based on data from an interview survey having 2700 samples, while freight traffic estimates were determined via freight items (9 in all), taking into consideration modal characteristics and development plans. 2. Development effects Expected effects from development are transport time savings, reduction in costs, increase in employment opportunities, promotion of structural change in industry, inducement of travel, regional development, technological spin-offs, alleviation of public nuisances, etc.				3.PRINCIPAL SOURCE OF INFORMATION ①	
		5. TECHNICAL TRANSFER					
		One counterpart received training on F/S methodology.					

和名 鉄道整備計画 (東西線・西線)

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

PROJECT SUMMARY (M/P)

ASE MYS/S 105/86

Compiled Mar.1990

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS					
1.COUNTRY	Malaysia	1.SITE OR AREA	Klang Valley Area (2,842 sq.km) in the central part of Peninsular Malaysia			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued			
2.NAME OF STUDY	Klang Valley Transportation Study	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) Based on the recommendations of this study, the following JICA feasibility studies were undertaken. 1. Transportation Facilities Projects in Klang Valley (1987 - July 1989) The Malaysian Highway Authority undertook a detailed design study on Shah Alam Expressway, and a private company (PLUS) is expected to implement the project. The Klang Port Authority undertook a detailed design study on Klang Freight Terminal, and a private company (KCT Berhad) was awarded the contract to implement. 2. Rail-based Commuter Services in Klang Valley (Jan. 1990 - Feb. 1991) This study was conducted simultaneously with another study (the Double Tracking Project) by the Malaysian Government. The proposals and projection of the JICA study which were deemed suitable were intergrated into the Double Tracking Project (DTP), and is now under implementation as part of the DTP. Financing was obtained from OECF* of Japan and UK's ODA in addition to the Govt. funds, and the DTP is expected to be completed in mid-1995. * The OECF loan (19,444 million yen) covers the following components. (1) double tracking from KL to Klang Port (43km), from KL to Sentul (2km) and the branch lin to Subang Airport (7km) (2) double tracking from Rawang to Seremban (105km) (3) signalling and telecommunication systems of the above (4) 18 sets of diesel railcars.				
3.SECTOR	Transportation/Urban Transportation	(US\$1,000)	1) 316,000		2) 757,000					
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)			2.MAJOR REASONS FOR PRESENT STATUS Malaysia is pursuing economic development to become a developed country by the year 2020. As part of their efforts, the Government aims to establish and operate an effective urban transport system in and around Kuala Lumpur. The double tracking of national railways and the strengthening of urban and intra-city transport systems are being implemented to alleviate growing road traffic congestions and environmental hazards.					
5.TYPE OF STUDY	M/P	- Introduction of mass transit railway (five lines, 137km) - Construction and improvement of roads - Traffic control plan - Construction of transport terminals								
6.COUNTERPART AGENCY	Klang Valley Planning Secretariat, Prime Minister's Department	4.CONDITIONS AND DEVELOPMENT IMPACTS			3.PRINCIPAL SOURCE OF INFORMATION ①②④					
7.OBJECTIVES OF STUDY	Formulation of a transportation system for Klang Valley Area	The study formulated a transportation master plan for the Klang Valley Area centering in Kuala Lumpur, and proposed a short-term plan for incorporation into the 5th five-year national development plan (1986 - 1990)								
8.DATE OF S/W	Aug.1984	5. TECHNICAL TRANSFER			1) Acceptance of 3 counterparts by the JICA training program (on physical planning of urban transportation) 2) OJT and a seminar					
9.CONSULTANT(S)	Fukuyama Consultants International, Inc. Pacific Consultants International									
10.STUDY TEAM	No.of Members 12 Period Nov.1984-Mar.1987(29 months)				1) 101.79 2) 3.10 3) 98.69					
	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">101.79</td> <td style="text-align: center;">3.10</td> <td style="text-align: center;">98.69</td> </tr> </table>	Total M/M	Japan	Field				101.79	3.10	98.69
Total M/M	Japan	Field								
101.79	3.10	98.69								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY										
12.EXPENDITURE										
		Total	356,832 (¥000)							
		Contracted	360,840							

和名 クランバレー交通計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 312/86

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA	Ocean Area between Kuantan in Pensinsula Malaysia and Kota Kinabaru, Sabah in East Malaysia			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Kuantan-Kota Kinabalu Submarine Cable Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost		
3.SECTOR	Communications & Broadcasting/Telecommunication		(US\$1,000)	1) 85,000		(Description) (FY1992 Overseas Survey) 1. The Letter of Intent was issued by Syarikat Telekom Malaysia Berhad (formerly Jabatan Telekom Malaysia) on 7 April 1989. 2. The negotiation started in 21 April 1989, and the contract was signed in June 1989 with the Japanese Consortium (NEC Corporation and Mitsui & Co. Ltd.) 3. The project was financed by the supplier's credit supported by the Export-Import Bank of Japan. The project design was changed regarding (i) the system capacity and (ii) a minor route diversion in the Indonesian EEZ, owing to the increased traffic forecast and the request from Indonesian authorities. The total investment cost was about 6.85 billion yen, or RM 145 million. 4. The System has been in service since 31 Dec.1990.	
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)	2) 85,000				
5.TYPE OF STUDY	F/S	Contents: Construction of Optical Fiber Submarine Cable System.	3) 85,000				
6.COUNTERPART AGENCY	Syarikat Telekom Malaysia Berhad (formerly Jabatan Telekom Malaysia)	Consists of: -Kuantan Cable Landing Station Facilities Terminal Equipment Power Supply Equipment Air conditioning system					
7.OBJECTIVES OF STUDY	Selection of the most suitable cable route, and system design	-Kota Kinabaru Cable Landing Station Facilities -Ditto- -Optical Fiber Submersible Plant Cables (1,500km distance) Repeaters					
8.DATE OF S/W	Feb.1986	Imp. Period:					
9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10.STUDY TEAM	No. of Members 20 Period Jun.1986-Jan.1987(7 months)	Conditions and Development Impacts: Conditions of IRR Calculation : 1) In order to construct on optical fiber submarine cable system between Kuantan in the Peninsular Malaysia and Kota Kinabaru, Sabah in the east Malaysia, the landing sites survey and ocean survey shall be implemented. 2) The traffic forecast and estimation of truck circuits between east and west Malaysia up to the year 2015 shall be executed. 3) The basic design for submarine cable system based on the survey results and study results of traffic and trunk circuits shall be made. Development Impacts : It is fully expected that traffic conditions in the east Malaysia will be much improved by means of the connection between east and west Malaysia through optical fiber submarine cable system, and the political equilibrium will be fostered by means of integration between east and west Malaysia.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					
12.EXPENDITURE	Total 284,940 (¥'000) Contracted 277,347	(1) OJT: Participation and/or observation in the shipboard activities. (6 counterparts) (2) Lectures & Observations: Optical Fiber Submarine Cable System, Cables, Repeaters and Terminal Equipment. Observations of					
						2.MAJOR REASONS FOR PRESENT STATUS	The increase in system capacity and better communication were necessary to meet the growing traffic demands between Peninsular Malaysia and Sabah/Sarawak.
						3.PRINCIPAL SOURCE OF INFORMATION	①②

和名 クアantan~コタキナバル海底ケーブル建設計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 313/87

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT					
1.COUNTRY	Malaysia	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing <input type="checkbox"/>				
2.NAME OF STUDY	Computerised Area Traffic Control System in Penang	Penang Municipality									
3.SECTOR	Transportation/Urban Transportation	2.PROJECT COST		Total Cost	Local Cost	(Description) (FY1992 Overseas Survey) The first phase of the project consisting of 16 junctions has been already implemented with some changes at the cost of RM 2.3 million. Although CCTV was recommended for all 16 junctions by the JICA study, it was installed only at two junctions (Dato Karamat and KOMTAR). Phases 2 and 3 which would equip another 37 junctions throughout Georgetown cannot proceed because of financial constraints. However, the Penang Island Municipal Council (MPPP) is unlikely to implement the remaining phases without another feasibility study, in view of the new highways currently under construction (i.e. the Coastal Road and the Outer Ring Road), among others. The traffic situation will become more complex with the linking up of the North-South Highway (from Sungai Petani to Perai, and from Perai to Taiping), and additionally the linking up of the East-West Highway in the not too distant future. The MPPP feels it necessary to wait for the completion of the major road works before initiating a new study over traffic patterns.					
4.REFERENCE NO.		(US\$1,000)	1) 106,553								
5.TYPE OF STUDY	F/S	(US\$1=2.71Rgt.)	2) 19,741								
6.COUNTERPART AGENCY	Economic Planning Unit, and Engineering Dept. of the Municipal Council of Penang Island (MPPP)	3.CONTENTS OF MAJOR PROJECT(S)									
7.OBJECTIVES OF STUDY	Formulation of a plan to improve the urban traffic control in Penang and design of the area traffic control system	- Area traffic signal system installation of signals (149 locations) CCTV cameras (16 locations) Sign boards (7 locations) - Road improvement (25.1km) - Parking buildings (4 locations) - Improvement of bus services (purchase of 140 busses) - Pedestrian paths (10.85km)									
8.DATE OF S/W	Feb.1986	Imp. Period: Jan.1986-Dec.2000									
9.CONSULTANT(S)	Fukuyama Consultants International, Inc. Central Consultant, Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 22.70 EIRR2) EIRR3)						
10.STUDY TEAM	No. of Members 8 Period Jul.1986-Jan.1988 (19 months)	Conditions and Development Impacts:				2.MAJOR REASONS FOR PRESENT STATUS Financial constraints made it necessary to delay the implementation of the later phases. In addition, it is considered prudent to postpone the implementation, because complex changes in traffic patterns are expected from the construction of the major roads and other linkups, requiring another feasibility study.					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">43.87</td> <td style="text-align: center;">2.40</td> <td style="text-align: center;">41.47</td> </tr> </table>	Total M/M	Japan	Field	43.87			2.40	41.47	- Project life of 15 years - economic analysis on 149 interchanges (to be installed in 4 phases)	
Total M/M	Japan	Field									
43.87	2.40	41.47									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Development impacts:				3.PRINCIPAL SOURCE OF INFORMATION ①②					
12.EXPENDITURE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">164,764 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">155,803</td> </tr> </table>	Total	164,764 (¥'000)	Contracted	155,803			- alleviation of traffic congestions - better monitoring over mal-functioning equipment - Better response to emergency vehicles - Better control over traffic speed and traffic volume - Reduction of traffic noise and air pollution			
Total	164,764 (¥'000)										
Contracted	155,803										
		5. TECHNICAL TRANSFER									
		Training of the counterparts in Japan (JICA program) Joint undertaking of the study									

和名 ペナン市都市交通コンピューター制御システム

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

PROJECT SUMMARY (F/S)

ASE MYS/A 302/87

Compiled Mar.1990

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA	Coastal area in northwest of Selanqal (Area: 20,000ha, Farm household 19,500)			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Tanjong Karang Irrigation Development Management Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) (FY1992 Overseas Survey) The detailed design study was undertaken by the Drainage and Irrigation Dept. (DID) during 1986-1992. The recommendations of the JICA study was utilized except for some minor modifications. The Malaysian Government allocated RM 4,848 million, and the construction began in Oct 1986 and is scheduled to end in Jan.1995. Notes: 1. The two automatic upstream water level control structures had been constructed in the main canal at Sungai Leman and Sungai Haji Deraini as recommended by the JICA study, but they do not function as designed, either owing to the design itself or to insufficient water supply. At the moment, they are operated manually. 2. To date, 60 - 70% of the water supply problems in Kuala Selangor have been solved. Water shortfalls only occur during the drought, affecting farmers whose lands are located at the far end of the main canal.	
3.SECTOR	Agriculture/General		10,384	10,384			
4.REFERENCE NO.							
5.TYPE OF STUDY	F/S	3.CONTENTES OF MAJOR PROJECT(S)				2.MAJOR REASONS FOR PRESENT STATUS (FY1992 Overseas Survey) 1. Socio-economic impact (reduction of rural poverty) 2. The National Agricultural Policy emphasizes the use of suitable land for intensive paddy production.	
6.COUNTERPART AGENCY	Department of Irrigation and Drainage (DID) Ministry of Agriculture	1. Irrigation area: 18,980ha 2. Rehabilitation/Improvement of the existing irrigation system (1) Berunam head race: Heightening of regulation gate, electrical operation of gate, etc. (2) Main canal: Widening of canal section, construction of water control facilities, etc. (3) Secondary canal: Construction and heightening works. (4) Distribution Canal: Concrete lining of canal, rehabilitation of check gates and weir (5) Farm road: Extension of farm road network (457 km) 3. Procurement of O/M Apparatus					
7.OBJECTIVES OF STUDY	The objectives of the study are to identify waterrelated problems faced in Tnjong Karang Irrigater Scheme, and to recommend solutins to these problems to stabilize and sustain rice production	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
8.DATE OF S/W	Mar.1986	Imp. Period:	.1987-.1990				
9.CONSULTANT(S)	Nihon Koel Co., Ltd. kyowa Engineering Consultants Co., Ltd.	Conditions and Development Impacts:					
10.STUDY TEAM	No.of Members 11 Period May.1986-Jun.1987(14 months)	Conditions: The following recommendations need be implemented to ensure full benefits from the project. 1) Improvement of facilities 2) Procurement of maintenance equipment 3) Institutional development 4) Establishment of a monitoring system 5) Water management pilot project 6) Training program and follow-up program Development Impacts: 1) Double cropping of paddy 2) Cropping intensity will rise from 1.77 to 2.0. 3) Increase of the average yield from 6.3 tons/ha to 9.1 tons/ha 4) Annual paddy production will increase from 99,600 tons to 167,000 tons. * IRRs are not calculated.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION					
Total	221,818 (¥'000)						
Contracted	142,972						

和名 タンジョンカラシ灌溉計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 207A/88

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS																
1.COUNTRY	Malaysia	1.SITE OR AREA	Klang River basin (1,288 sq.km)	1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued															
2.NAME OF STUDY	Flood Mitigation of the Klang River Basin	2.PROJECT COST	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">Total Cost</td> <td style="text-align: center;">Local Cost</td> <td style="text-align: center;">Foreign Cost</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">238,000</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost			238,000								(Description) A feasibility study was subsequently undertaken on urgent projects. (FY1992 Overseas Survey) The structural measures of flood mitigation proposed in the Master Plan were accepted by the DID's Dept. of Flood Mitigation and many were integrated in the 6th Malaysia Plan. Some of the non-structural measures have also been accepted.	
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost																
		238,000																		
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTES OF MAJOR PROJECT(S)																		
4.REFERENCE NO.		Implementation of the master plan is divided into three phases, with a total period of fifteen years. 1) Phase 1 (Urgent Project) River improvement of the main river and tributaries for 10.4km length, construction of retention pond with capacity of 2.7 million m3, construction of diversion channel of 3.25 km in length and drainage facilities in low-lying area of the city (Pumping station Q=2m3, underground retention pond with 32,700 m3 capacity) 2) Phase 2 (Mid-term plan) River improvement of downstream stretch of Klang River for 55.2km. Flood protection level after completion of these works will become about a 30-year return period for mid-stream stretch and 100-year for downstream stretch. 3) Phase 3 (Long term plan) River improvement works for Klang, Batu and Gombak rivers for total length of 60.1km. Flood protection level will become 100-year return period for whole stretch of the Project area.																		
5.TYPE OF STUDY	M/P+ (F/S)	4.CONDITIONS AND DEVELOPMENT IMPACTS	Conditions: 1) The land use pattern projected of the year 2005. 2) Benefits will accrue in the 5th year and on. 3) Opportunity cost of 13%. 4) Project life of 50 years. 5) IRR of 19.5%; B/C ratio of 1.66; NPV of US\$75.6 million Social impacts: Approximately 100 sq.km will be protected from 100-year probable floods and the available land will be used for productive activities. The retention pond will be used for multi-purpose such as recreational park.	2.MAJOR REASONS FOR PRESENT STATUS																
6.COUNTERPART AGENCY	Economic Planning Unit (Prime Min. Dept.) Drainage and Irrigation Dept. (DID)	5.TECHNICAL TRANSFER	1. OJT for the counterparts 2. Computer training of water part			3.PRINCIPAL SOURCE OF INFORMATION ①②														
7.OBJECTIVES OF STUDY	Flood control	8.DATE OF S/W	Mar.1987																	
9.CONSULTANT(S)	Pacific Consultants International Nihon Koei Co., Ltd.	10.STUDY TEAM	No.of Members 12 Period Sep.1987-Jan.1989 (17 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">89.56</td> <td style="text-align: center;">43.39</td> <td style="text-align: center;">46.17</td> </tr> </table>			Total M/M	Japan	Field	89.56	43.39	46.17									
Total M/M	Japan	Field																		
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11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	topographic survey installation of water meters	12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">272,978 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">264,888</td> </tr> </table>	Total	272,978 (¥'000)	Contracted	264,888													
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和名 クラン川流域治水計画

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