

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 207B/88

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		Klang Valley basin (1,288 sq.km)		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Flood Mitigation of the Klang River Basin	2.PROJECT COST		Total Cost	Local Cost		
3.SECTOR	Social Infrastructures/River & Erosion Control			1) 75,729	60,332	15,397	
4.REFERENCE NO.				2) US\$1=130yen=M\$2.55			
5.TYPE OF STUDY	(M/P) +F/S			3)			
6.COUNTERPART AGENCY	Economic Planning Unit (Prime Min. Dept.) Drainage and Irrigation Detp. (DID)	3.CONTENTS OF MAJOR PROJECT(S)		1) River Improvement: Enlargement, deepening and embankment of Klang River(1.3 km in the city area), Gombak River(2.5 km of mid-stream stretch) and Batu River(6.6km of mid-stream stretch). 2) Diversion Channel: Construction of diversion channel connecting Gombak River with retention pond near Batu River(L=3.25km Design discharge 60 m3/s) 3) Batu Retention Pond: Construction of multi-purpose retention pond using ex-mining pond, with flood control capacity of 2.7 million m3 and total area of 113.4 ha including park area. 4) Drainage Facilities: Inner water drainage facilities in Kampung Baru area: (35 ha): Construction of pumping station of 2 m3/s, and underground pond with 32,700m3.			
7.OBJECTIVES OF STUDY	Flood control			(Description) (FY1992 Overseas Survey) Most of the recommendations in the JICA Study are being implemented in stages with emphasis on the priority areas with frequent flooding. 1. Detailed design studies were conducted by local consultants on the Batu retention pond and the Gombak diversion channel. The two projects will be implemented in stages as and when funds are made available. The retention pond has been tendered out to a local contractor, while the diversion channel will soon be tendered out. 2. The proposed channel improvement for the Klang, Gombak and Batu Rivers is under inhouse implementation in stages by the DID. 3. The Federal Government is providing funds for implementation. The Economic Planning Unit is also negotiating with Asian Development Bank to finance some of the flood mitigation projects.			
8.DATE OF S/W	Mar.1987	Imp. Period:					.1993-.1997
9.CONSULTANT(S)	Pacific Consultants International Nihon Koei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 15.70 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM	No.of Members 12 Period Sep.1987-Jan.1989(17 months)			Conditions and Development Impacts: Conditions: 1) The land use pattern projected for 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) B/C ratio of 1.24; NPV of US\$13 million Social impacts: Approximately 100 sq.km will be protected from 100-year probability floods and the available land will be used for productive activities.			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	topographic survey installation of water meters			5.TECHNICAL TRANSFER 1) OJT for the counterparts 2) Training of 2 counterparts in Japan (JICA program) 3) A seminar			
12.EXPENDITURE	Total 272,978 (¥000) Contracted 264,888						2.MAJOR REASONS FOR PRESENT STATUS (FY1992 Overseas Survey) Urgent needs to alleviate the flooding problems that presently affect the low-lying areas in the Klang Valley.
				3.PRINCIPAL SOURCE OF INFORMATION ①②			

和名 クラン川流域治水計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 314/88

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	Malaysia	1.SITE OR AREA	International beach resort area in Desal Area in the southeastern part of Malay Peninsula			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	National Tourism Development Plan	2.PROJECT COST	(US\$1,000)	1) Total Cost 453,400	2) Local Cost 453,400			3) Foreign Cost					
3.SECTOR	Tourism/General	3.CONTENT(S) OF MAJOR PROJECT(S)	Construction of Desaru New Tourism Core: 1. Construction of infrastructure - road: 399m - jetty: 5 spots - water supply: 31,021 cu.m/day - sewage system: 11,028 cu.m/day - solid waste disposal system: 56.8 ton - power supply: 31,530KVA - telecommunication: 584 lines(up to May, 1995) 2. Middle class and high class resort hotels (total: 1,800 rooms) 3. Other tourism facilities such as sports and recreational facilities			(Description) (FY1992 Overseas Survey) The Ministry of Culture, Arts, and Tourism still adheres to the policy of dividing the country into six tourism regions (Central Peninsula, West Peninsula, South Peninsula, East Peninsula, Sabah and Sarawak). The JICA study evaluated the South Peninsula Tourism Region (South PTR) as the first priority region. JICA proposals were accepted in principle by the Johor State Government and are now at various states of implementation. Detailed design studies for infrastructure development have been undertaken by the Public Works Dept., the Drainage and Irrigation Dept., or other relevant departments, and the projects have been implemented in stages with government funds under the 5th and 6th Malaysia Plans. Hotels and recreational facilities have been developed by the private investors. A consortium of private developers which was awarded the contract to develop the Desaru area ran into financial difficulties in 1992, but the contract was reawarded to a new consortium of developers, and two hotels (each with about 600 rooms) will be completed by 1994, "Visit Malaysia Year II". The State Government is one of the shareholders of this redevelopment project, which is estimated to cost \$300 million.							
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 18.80 EIRR2) 20.70 EIRR3) 19.30	FIRR1) 16.10 FIRR2) 20.70 FIRR3) 19.30			2.MAJOR REASONS FOR PRESENT STATUS 1. The land planned for tourism development is government-owned. 2. The existing infrastructure is managed by KEJORA, a statutory body. 3. Management of hotels and transportation means are increasingly privatized. 4. South PTR is close to Singapore to tap its thriving tourism market (both Singaporeans and visitors from other countries). 5. The project has positive socio-economic impacts in employment creation and economic activation.					
5.TYPE OF STUDY	F/S	7.OBJECTIVES OF STUDY	Formulation of a medium-term tourism development plan Imp. Period: 1989-1995 Conditions and Development Impacts: Total construction costs exclude the costs to be borne by the local inhabitants according to the users-pay principle. The calculation of benefits is derived from the tourists expenditures and the revenue structure of the hotels in 1987/1988, and tourists projections are derived from the present structure of destinations after adjusting by the impact of the proposed Desal new tourism core. Development impacts: 1) Stimulation of the development in low-income areas 2) Creation of employment 3) Encouragement of population movement from the urban areas to the region. 4) Foreign exchange earnings Note: FIRR 1) is for hotels, FIRR 2) for developers and FIRR 3) for joint ventures. EIRR is for the entire development.			3.PRINCIPAL SOURCE OF INFORMATION ①②							
6.COUNTERPART AGENCY	Ministry of Culture Arts and Tourism Tourism Promotion Corporation	8.DATE OF S/W	10.STUDY TEAM No.of Members 20 Period Mar.1987-Feb.1989 (24 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;">93.00</td> <td style="text-align: center;">38.00</td> <td style="text-align: center;">55.00</td> </tr> </table>					Total M/M	Japan	Field	93.00	38.00	55.00
Total M/M	Japan	Field											
93.00	38.00	55.00											
9.CONULTANT(S)	Pacific Consultants International	12.EXPENDITURE	5.TECHNICAL TRANSFER On-the-job training			12.EXPENDITURE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">295,306 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">283,884</td> </tr> </table>		Total	295,306 (¥'000)	Contracted	283,884		
Total	295,306 (¥'000)												
Contracted	283,884												

和名 地域総合開発計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 209A/89

Compiled Mar.1991
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	Pulau Pinang and Seberang Perai Area 1030sq.km , population 1,090,600 persons		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued																		
2.NAME OF STUDY	Solid Waste Management for Pulau Pinang and Seberang Perai Municipalities	2.PROJECT COST	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></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;">42,240</td> <td style="text-align: center;">42,240</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)	42,240	42,240			2)				(Description) A feasibility study was subsequently undertaken.				
		Total Cost	Local Cost	Foreign Cost																				
(US\$1,000)	1)	42,240	42,240																					
	2)																							
3.SECTOR	Public Utilities/Urban Sanitation	3.CONTENTES OF MAJOR PROJECT(S)																						
4.REFERENCE NO.		The planning period up to 2005 is divided into three Phases. The Plan proposes the improved efficiency and quality of waste collection, improved street sweeping services, construction of final disposal sites, and a gradual shift from open dumping to sanitary landfilling for urban environmental consideration. The Plan also proposes the review of assessment tax and the introduction of a fee collection system for securing financial resource for project implementation. <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%; text-align: center;">Phase I</td> <td style="width: 33%; text-align: center;">Phase II</td> <td style="width: 33%; text-align: center;">Phase III</td> </tr> <tr> <td>Collection:</td> <td>*Intro. of large-sized collection vehicles & Impr. of collection frequency</td> <td>*Partial introduction of stationnal collection system</td> <td>*Full introduction of stationnal collection system</td> </tr> <tr> <td>St. Sweeping:</td> <td>*Review of sweeping frequency</td> <td>*Private sector participation</td> <td></td> </tr> <tr> <td>Final Disposal:</td> <td>*1st stage construction of disposal site</td> <td>*2nd stage constr.</td> <td>*3rd stage constr.</td> </tr> <tr> <td>Investment:</td> <td>*Intro. of semi-sanitary landfilling US\$9.73 million</td> <td>*Shift to sanitary landfilling US\$17.76 million</td> <td>*Implementation of landfilling US\$14.75 million</td> </tr> </table> The investment is assumed to be financed with funds from the federal government.				Phase I	Phase II	Phase III	Collection:	*Intro. of large-sized collection vehicles & Impr. of collection frequency	*Partial introduction of stationnal collection system	*Full introduction of stationnal collection system	St. Sweeping:	*Review of sweeping frequency	*Private sector participation		Final Disposal:	*1st stage construction of disposal site	*2nd stage constr.	*3rd stage constr.	Investment:	*Intro. of semi-sanitary landfilling US\$9.73 million	*Shift to sanitary landfilling US\$17.76 million	*Implementation of landfilling US\$14.75 million
	Phase I				Phase II	Phase III																		
Collection:	*Intro. of large-sized collection vehicles & Impr. of collection frequency				*Partial introduction of stationnal collection system	*Full introduction of stationnal collection system																		
St. Sweeping:	*Review of sweeping frequency				*Private sector participation																			
Final Disposal:	*1st stage construction of disposal site	*2nd stage constr.	*3rd stage constr.																					
Investment:	*Intro. of semi-sanitary landfilling US\$9.73 million	*Shift to sanitary landfilling US\$17.76 million	*Implementation of landfilling US\$14.75 million																					
5.TYPE OF STUDY	M/P+ (F/S)																							
6.COUNTERPART AGENCY	Local Government Division of Ministry of Housing and Local Government Health Service Depts. of Pulau Pinang and Seberang Perai Municipalities																							
7.OBJECTIVES OF STUDY	Planning solid waste Management of the Municipalities																							
8.DATE OF S/W	Oct.1987	4.CONDITIONS AND DEVELOPMENT IMPACTS			2.MAJOR REASONS FOR PRESENT STATUS																			
9.CONSULTANT(S)	Yachiyo Engineering Co., Ltd. Kokusai Kougyo Co., Ltd.	Conditions: 1) Financial base for solid waste management will be strengthened with a review of the rate of assessment tax and with introduction of fee collection system of waste collection service. 2) Investments costs for renewal of collection vehicles and construction of final disposal site is supposed to be financed with grants or low interest loans by supports of the central government.																						
10.STUDY TEAM	No.of Members 13 Period Jan.1988-Aug.1989 (20 months) <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 30%;"></td> <td style="width: 30%; text-align: center;">Japan</td> <td style="width: 30%; text-align: center;">Field</td> </tr> <tr> <td>Total M/M</td> <td style="text-align: center;">32.10</td> <td style="text-align: center;">52.20</td> </tr> <tr> <td style="text-align: center;">84.30</td> <td></td> <td></td> </tr> </table>		Japan	Field	Total M/M	32.10	52.20	84.30			Development Impacts: 1) Sizable cost reduction can be realized by introducing the proposed system of waste collection and street sweeping. A certain counter-measure should be taken against unemployment of surplus workers after the introduction. 2) Negative environmental impacts can be minimized and the environmental conditions around final disposal sites will be conserved by introducing sanitary landfilling.													
	Japan	Field																						
Total M/M	32.10	52.20																						
84.30																								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Land Use Survey Study of Policy and Budget system in Malaysia	5. TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION ①②																			
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total</td> <td style="width: 15%; text-align: center;">267,199 (¥'000)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">235,971</td> </tr> </table>			Total			267,199 (¥'000)			Contracted	235,971	Training of counterpart 2 times 4 persons Seminar and workshop 1 week												
		Total	267,199 (¥'000)																					
		Contracted	235,971																					

和名 ペナン廃棄物処理計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 209B/89

Compiled Mar.1991

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		Pulau Pinang and Seberang Perai Area 1030sq.km , population 1,090,600 persons		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		2.PROJECT COST		Total Cost	Local Cost			Foreign Cost					
Solid Waste Management for Pulau Pinang and Seberang Perai Municipalities		(US\$1,000)	1) 9,730	9,730	9,730	(Description) (FY1992 Overseas Survey) Only a few of the recommendations made in the JICA Study have been adopted. 1. Of the three sites proposed for landfill, the Pulau Burong Solid Waste Sanitary Landfill will be developed and the Federal Government has allocated RM 1.2 million. Pantai Acheh and Kuala Muda sites have been rejected. 2. The barging concept proposed by the JICA Study has been also rejected, because there was no detailed study on the sea-wave conditions, the landing site was thought not possible and barging is too expensive. Experts who reviewed the JICA Study proposal proposed the use of the Penang Bridge for trucking solid wastes over to Pulau Burong. Special note: The authorities responsible for the project implementation answered that the JICA proposals were discontinued.							
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)											
Public Utilities/Urban Sanitation		1. Improvement of solid waste collection (1) Introduction of a three-times-a-week collection system in the housing area (2) Introduction of plastic bags (3) Change from side loaders to compact cars (10 cu.m.) (4) Transfer to a stationnal collection system (20P/station) 2. Implementation of sanitary landfill (Establishment of final disposal sites for sanitary landfill with drainage circulation system) 3. To strengthen management of project operation (1) Establishment of "Department of Municipal Service" (2) Specialization of technical staff (3) Regional escalation of the project 4. To secure budget for sanitation project (1) To secure tax income from the fix property tax (2) Recheck of fee system				2.MAJOR REASONS FOR PRESENT STATUS (FY1992 Overseas Survey) The Federal Government of late emphasizes privatization alternatives in order to reduce additional government investments in infrastructure development. This is contrary to the JICA recommendation of obtaining a loan from Federal and State Governments. Financially-constrained municipal governments will not be able to implement and operate the project in toto as proposed by the JICA Study.							
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)			FIRR1) FIRR2) FIRR3)					
5.TYPE OF STUDY		5.technical transfer		Conditions and Development Impacts:		3.PRINCIPAL SOURCE OF INFORMATION ①②							
(M/P) +F/S		1) Cost reduction and improvement of efficiency by introduction of proposed waste collection system and street sweeping system. 2) Sanitary waste disposal by construction of three final disposal sites and environmental conservation at present sites. 3) Strengthening self-financial resource by introduction of a fee collection system a) Improvement of efficiency of solid waste collection and street sweeping b) Improvement of sanitation conditions at final disposal sites c) Systematic function of project operation management d) Better understanding and cooperation of residents on waste disposal projects e) Improvement of budgetary base for waste disposal projects By the improvement of waste collection and street sweeping, M\$95.3 million in Pinang City and M\$16.5 million in Seberang City can be reduced in the cost for waste management. The projects are judged as economically feasible because of the reduction. All the investment costs are supposed to be financed with sub-ports by the central government, and the conditions of loans are assumed as follow: Long Term: grant period-three years, 20 years repayment, 7% interest Medium Term: grant period-two years, 10 years repayment, 9% interest Short Term: repaid in the next year, 13.5% interest											
6.COUNTERPART AGENCY		8.DATE OF S/W		Imp. Period: .1991-.1995		10.STUDY TEAM No.of Members 13 Period Jan.1988-Aug.1989 (20 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;">84.30</td> <td style="text-align: center;">32.10</td> <td style="text-align: center;">52.20</td> </tr> </table>		Total M/M	Japan	Field	84.30	32.10	52.20
Total M/M	Japan	Field											
84.30	32.10	52.20											
Local Government Division of Ministry of Housing and Local Government, Health Service Dept. of Pulau Pinang and Seberang Perai Municipalities		9.CONSULTANT(S)		Yachiyo Engineering Co., Ltd. Kokusai Kogyo Co., Ltd.		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Land Use Survey Study of Policy and Budget system in Malaysia Topographic Survey							
7.OBJECTIVES OF STUDY		12.EXPENDITURE		Training of counterpart 4 persons Seminar and workshop 1 week									
Planning solid waste Management of the Municipalities		Total	267,199 (¥'000)										
		Contracted	235,971										

和名 ペナン廃棄物処理計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 208A/89

Compiled Mar.1991
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	Kelantan river basin having catchment area of 13,100 sq.km and population of 1.1 million		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued														
2.NAME OF STUDY	Kelantan River Basin-Wide Flood Mitigation	2.PROJECT COST			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">(US\$1,000)</td> <td></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;">1)</td> <td style="text-align: center;">482,220</td> <td style="text-align: center;">324,810</td> <td style="text-align: center;">157,410</td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> </table>		(US\$1,000)		Total Cost	Local Cost	Foreign Cost		1)	482,220	324,810	157,410		2)		
(US\$1,000)		Total Cost	Local Cost	Foreign Cost																
	1)	482,220	324,810	157,410																
	2)																			
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTES OF MAJOR PROJECT(S)																		
4.REFERENCE NO.		The study formulated a master plan of flood control for the basin area extending 100 km upstream from the mouth of Kelantan River. Major proposals are Lebir dam (about 70m high) at Lebir River (a branch of Kelantan River) and Kemubu dam (about 45m high) at Garas River in order to prevent flood. Furthermore, a river channel improvement of the basin area extending 100km upstream from the mouth of the river increases water volume, which leads the flood water in question flow down safely.																		
5.TYPE OF STUDY	M/P+(F/S)																			
6.COUNTERPART AGENCY	Drainage & Irrigation Department Ministry of Agriculture																			
7.OBJECTIVES OF STUDY	To formulate a basin-wide flood mitigation plan for Kelantan river basin																			
8.DATE OF S/W	Nov.1987	4.CONDITIONS AND DEVELOPMENT IMPACTS			2.MAJOR REASONS FOR PRESENT STATUS															
9.CONSULTANT(S)	Nihon Koei Co., Ltd.	See next page.																		
10.STUDY TEAM	No.of Members 14 Period Mar.1988-Nov.1989(20 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;">100.74</td> <td style="text-align: center;">44.07</td> <td style="text-align: center;">56.67</td> </tr> </table>				Total M/M	Japan	Field	100.74	44.07	56.67									
Total M/M	Japan	Field																		
100.74	44.07	56.67																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	1) Recontracted topographic survey 2) Recontracted topographic survey	5.technical transfer			3.PRINCIPAL SOURCE OF INFORMATION															
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">475,807 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">247,426</td> </tr> </table>	Total	475,807 (¥'000)	Contracted		247,426	Technical knowledge was transferred to counterpart in each field through analysis, planning and designing during the field works.													
Total	475,807 (¥'000)																			
Contracted	247,426																			

和名 クラントン川流域治水計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 208B/89

Compiled Mar.1991

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	Kelantan river basin having catchment area of 13,100 sq.km and population of 1.1 million			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	Kelantan River Basin-Wide Flood Mitigation	2.PROJECT COST (US\$1,000)	1) 482,220	Local Cost 324,810	Foreign Cost 157,410				
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTES OF MAJOR PROJECT(S)	1.Protection area: Lower Kelantan river basin 2.Flood mitigation method: Construction of Lebir dam, Kemubu dam and river improvement 3.Design flood: 10,650 cu.m/ (50-year flood probability) 4.Lebir dam Flood control volume: 860 million cu.m Type of dam :rockfill, Dam height 70m Dam volume : 4.9 million cu.m 5.Kemubu Dam Flood control volume: 307 million cu.m Type of dam :concrete gravity, Dam height 45m Dam volume: 150,000 cu.m 6.River Improvement Total levee: 164 km, Emb. vol. 13.2 million cu.m Verge levee: height 4 m			(Description) (FY1992 Overseas Survey) 1. DID requested that the river improvement component be included in the JICA Study to be taken up in the 6th Malaysia Plan (1991 - 1995). 2. The planning of a feasibility study began in Oct.1992 and 6 consultant teams were invited to visit Kelantan River, Lebir and Kembu dam sites. The consultants' proposals were submitted by 22 Jan.1993. The selection of a consultant is expected to be finalized by April 1993. 3. The feasibility study is scheduled from mid 1993 to the end of 1995 (18 months), with financing by the Federal Government (RM 7 million). 4. The implementation of the project is expected during the 7th Malaysia Plan with the Federal Government funds. The estimated cost is around RM 1.3 billion, including RM 600 million for two dams.			
4.REFERENCE NO.		5.TYPE OF STUDY	(M/P)+F/S						
6.COUNTERPART AGENCY	Drainage & Irrigation Department Ministry of Agriculture	7.OBJECTIVES OF STUDY	To perform pre-feasibility study for major structures selected in the basin-wide flood mitigation plan			Special note: For the improvement of Kelantan River, three projects are involved. They are (1) Sungai Golok Project (northern part of Kelantan), (2) ADB-financed Kemasin - Semarak Project (eastern part of Kelantan), and lastly (3) Improvement of the Kelantan River Bank (area along the Kelantan River).			
8.DATE OF S/W	Nov.1987	9.CONULTANT(S)	Nihon Koei Co., Ltd.						
10.STUDY TEAM	No.of Members 14 Period Mar.1988-Nov.1989(20 months)		Imp. Period: 1993-.2010 4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes/No EIRR1) 2.20 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)		2.MAJOR REASONS FOR PRESENT STATUS (FY1992 Overseas Survey) Urgent needs to alleviate the flooding problems in the Kelantan River basin area.				
<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;">100.74</td> <td style="text-align: center;">44.07</td> <td style="text-align: center;">56.67</td> </tr> </table>		Total M/M	Japan	Field			100.74	44.07	56.67
Total M/M	Japan	Field							
100.74	44.07	56.67							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION					
12.EXPENDITURE		Total 475,807 (¥'000) Contracted 247,426		①②					

和名 クラントン川流域治水計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 316/89

Compiled Mar.1991
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> <td colspan="2"></td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1) 139,540</td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td></td> <td></td> <td colspan="2"></td> </tr> </table>			Total Cost	Local Cost	Foreign Cost			(US\$1,000)	1) 139,540						2)						3)					1.PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
	Total Cost	Local Cost	Foreign Cost																												
(US\$1,000)	1) 139,540																														
	2)																														
	3)																														
2.NAME OF STUDY	Traffic Control and Management System of Malaysian Expressways and Toll Highways	2.PROJECT COST																													
3.SECTOR	Transportation/Road	3.CONTENTES OF MAJOR PROJECT(S)		(Description) (FY1992 Overseas Survey) Regarding the development of the traffic control and management system for 915km of Malaysian expressways, the concession company Perlembagaan Lebuhraya Utara Selatan (PLUS) is now responsible for the bulk of expressways and highways, excluding the Shah Alam Expressway, Penang Bridge and the Karak Highway which are managed by the Malaysian Highway authority (MHA). Most of the on-going project components are under the PLUS. In the case of MHA, some budget allocations are approved under the 6th Malaysia Plan, but the project proposals are still under consideration. 1. Regarding the traffic information collection project, only the emergency telephones and vehicle detectors are being installed in the North-South Highway. The weather forecasting facilities and CCTVs are still under consideration, mainly owing to the financial constraints. 2. Regarding the information analyzing system project, both the traffic control center and the sub-centers are earmarked for implementation and the construction is likely to commence in the near future. 3. Regarding the information dissemination project, no step has been taken toward implementation.																											
4.REFERENCE NO.		1. Construction of a traffic control and management system for the Malaysian expressways with the length of 915km which is under construction. 1) Traffic informatoin collection a. emergency telephones b. vehicle detectors c. weather forecasting facilities d. CCTV cameras 2) Information analyzing system a. traffic control center b. sub-centers 3) Information dissemination a. changeable message boards b. changeable speed limit signs c. highway radio 2. Establishment of the organization for traffic control																													
5.TYPE OF STUDY	F/S	4.FEASIBILITY AND ITS ASSUMPTIONS		2.MAJOR REASONS FOR PRESENT STATUS A major portion of the expressways and highways are still under construction and the total network is expected to be completed by the end of the 6th Malaysia Plan (1991-1995). The development of the traffic control and management system will be implemented in stages along with the construction of expressways and highways.																											
6.COUNTERPART AGENCY	Malaysia Highway Authority (MHA)	Imp. Period: .1990-.1995 .1990-.1995 .1990-.2005 Feasibility: Yes EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)																													
7.OBJECTIVES OF STUDY	-Formulate Short and Long Term Expressway Traffic Control and Management System Plans -Prepare an Operation Manual	5. TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION ①②																											
8.DATE OF S/W	Jul.1988	The project is expected to bring about an efficient operation and management system to the expressways -Provide counter-measures during emergencies accidents and disasters -Ensure traffic safety and smooth traffic flow -Provide efficient traffic operation, management and expressway maintenance																													
9.CONSULTANT(S)	Fukuyama Consultants International, Inc.	10.STUDY TEAM																													
		No.of Members 9 Period Nov.1988-Nov.1989(12 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> <td colspan="2"></td> </tr> <tr> <td style="text-align: center;">44.90</td> <td style="text-align: center;">6.00</td> <td style="text-align: center;">38.90</td> <td colspan="2"></td> </tr> </table>		Total M/M	Japan	Field			44.90	6.00	38.90																				
Total M/M	Japan	Field																													
44.90	6.00	38.90																													
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Data collection and preparation of route base maps by local consultants	12.EXPENDITURE																													
		Total 188,346 (¥'000) Contracted 174,020																													
		Two counterpart engineers from MHA have participated in the study in Malaysia and attended 3 months training courses in Japan. A post-study technical seminar was held for the Malaysian personnel involved in traffic control and management.																													

和名 高速道路交通管理計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 315/89

Compiled Mar.1991

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		Klang Valley Region		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	Transportation Facilities Projects in Klang Valley	2.PROJECT COST		Total Cost	Local Cost		
3.SECTOR	Transportation/Urban Transportation			1)	382,250		(Description) (FY1992 Overseas Survey) Only those project components for privatization have been completed or making progress, and the components for government financing are largely held back owing to the lack of funds. 1. Highway project The Malaysian Highway Authority is engaged in a detailed design study of the Shah Alam Highway (47.7km), and a private company (PLUS) is expected to implement the project. The North-South Highway Project is privatized, to be implemented by PLUS. 2. Traffic Control System Project The project is still under consideration, and no step has been taken toward its implementation. 3. Freight Terminal Project A detailed design study of the Klang Terminal was undertaken by the Port Klang Authority and is under implementation by a private company (KCT Berhad). Kuala Lumpur North and South Terminals are still under consideration and no negotiations have been made so far.
4.REFERENCE NO.				2)	43,070		
5.TYPE OF STUDY	F/S			3)	11,410		
6.COUNTERPART AGENCY	Klang Valley Planning Secretariat, Prime Minister's Department	3.CONTENTS OF MAJOR PROJECT(S)					
7.OBJECTIVES OF STUDY	Feasibility Study on packaged Transportation Project	Highway Project:		Budget	EIRR	FIRR	
8.DATE OF S/W	Mar.1987	Imp. Period: .1991-.1999					
9.CONSULTANT(S)	Fukuyama Consultants International, Inc. Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM	No. of Members 18 Period .1987-Jul.1989(18 months) Total M/M Japan Field 112.20 7.81 104.39	Conditions and Development Impacts:					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey	Highway Project		-Alleviating traffic congestion -Development of Highway corridor -Reduction in Transport Costs			
12.EXPENDITURE	Total 431,735 (¥000) Contracted 420,480	TC System Project		-Alleviating traffic congestion -Traffic Control and Surveillance -Drivers Information			
		Freight Terminal Project		-Modernization of Freight Transport Industry -Reduction in Transport Costs -Improvement of Living Environment			
		5. TECHNICAL TRANSFER		1.On-the-job-training 2.Holding Symposium 3.Counterpart training in Japan			
						2.MAJOR REASONS FOR PRESENT STATUS	
						3.PRINCIPAL SOURCE OF INFORMATION	
						①②	

和名 クランバレー地域都市交通施設計画

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

PROJECT SUMMARY (M/P)

ASE MYS/A 101/90

Compiled Mar.1992
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			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Fish Marketing and Distribution System	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) Based on the findings and recommendations of the master plan study, the Malaysian Government requested JICA to undertake a feasibility study on the East Johor pilot project. The study was duly conducted during April - May in 1992. (FY1992 Overseas Survey) The Fisheries Department (LKIM) has approached the Works Department (JKR) regarding the implementation of the pilot project in East Johor. Financing is to be borne by the EPU (Economic Planning Unit) and possibly by the Ministry of Agriculture, and the LKIM is in the process of negotiation with these agencies. The Government of Malaysia is considering to allocate a budget in the order of RM 35 million, but the amount is yet to be approved. Detailed design of the project has been passed to JKR. The implementation is expected from March 1993 to December 1995.
3.SECTOR	Fisheries/Fisheries		(US\$1,000)	1) 2)		
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)				
5.TYPE OF STUDY	M/P	The study proposed strategies for improving FMDS and suggested the alternative plans of improving FMDS's facilities and institutions for the national level and for six model areas (in Kedah, North Trengganu, East Johor, Sarawak and Sabah States) and six marketing centers elsewhere, covering the following basic components. East Johor was selected as the most effective area for the pilot project of FMDS improvement.				
6.COUNTERPART AGENCY	Ministry of Agriculture LKIM	1. Fish landing to be shifted from private jetties to public LKIM complexes 2. Fish marketing: -Facilities: expansion of the fish landing-supply jetties and market halls, enlargement of the fuel pump, improvement of handling equipment, provision of a mooring facility, the cold storage and processing facility -Operation: systematic sorting/grading and improvement of fish handling on board, and privatization of the part of port facilities 3. Quality control: to reinforce low temperature control of fish before landing 4. Marketing structure: to strengthen wholesale market functions of the LKIM complex 5. Fishermens' associations: improvement of the existing activities (increased utilization by members, introduction of credit system, expansion of fish sales, training of operation/management staff), and promotion of new activities (market development, and promotion of fish processing and of large fishing boats.)				
7.OBJECTIVES OF STUDY	To provide alternative plans for an efficient marketing and distribution system at the national and regional level.	4.CONDITIONS AND DEVELOPMENT IMPACTS				
8.DATE OF S/W	Jul.1989	Increase of production and value added, time and cost saving of FMDS, upgrade of fishermen's living standard, and earning of foreign currency, etc., were estimated as its effects though improvements in organization and institution, facilities, and operation will be required. East Johor has high development potential of fish resources, accessibility to the consumption area and fishermen with advantageous position to the fish dealers etc. In this respect, the effectiveness by implementation of the pilot project may be much higher.				
9.CONSULTANT(S)	System Science Consultants	The various methods in operation, maintenance, and management of a distribution facility which will evolve from this pilot project, can be diffused easily to other areas from this site. The fishing technique, and fish marketing and distribution system are not well developed at the present stage in this area. The improvement of fish marketing and distribution system as well as the development of unused resources and adequate management of fishery resources will have high impact on this area and connect to the uplift of income of fishermen.				
10.STUDY TEAM	No.of Members 9 Period Nov.1989-Mar.1991(17 months)				2.MAJOR REASONS FOR PRESENT STATUS	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	1. Fish marketing and consumption study 2. Fish quality inspection				(FY1992 Overseas Survey) 1. Socio-economic impacts to fishermen and the fishing industry 2. Infrastructure needs of the present fishing industry	
12.EXPENDITURE	Total 217,875 (¥'000) Contracted 209,606	5. TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION	
		1. Counterpart training in Japan was implemented in 1990. 2. Technology transfer was conducted through field survey and seminar.			①②	

和名 水産物流通システム総合計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 210A/90

Compiled Mar.1992
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	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	Flood Mitigation and Drainage in Penang Island	2.PROJECT COST	(US\$1,000)	Total Cost	Local Cost	Foreign Cost						
3.SECTOR	Social Infrastructures/River & Erosion Control		1)	102,235								
4.REFERENCE NO.			2)									
5.TYPE OF STUDY	M/P+(F/S)	3.CONTENTS OF MAJOR PROJECT(S)	The Master Plan of river improvement is divided into three phases of implementation, totalling twenty years. 1) Phase 1(Urgent Project) River improvement of Pinang, Keluang, Geluqor and Dua Besar rivers for total length of 22.1km. 2) Phase 2(Mid-term Plan) River improvement works for four grade B rivers and remaining portion of Grade A rivers. Total length of 17.3 km. 3) Phase 3(Long term Plan) River improvement works for fourteen(14) Grade C rivers in the Island. Total length of 13.4km. Drainage Master Plan 1)Improvement of main drains in Gorge town City Total length of 21.9km. 2)Construction of retention pond of 22,000 cu.m capacity with 6 cu.m/s capacity pumping station. 3)Retention pond of 56,000 cu.m capacity with 2 cu.m/s pumping station 4)Improvement of drainage system in the Island outside of Georgetown City. Length of 4.48km.									
6.COUNTERPART AGENCY	Drainage and Irrigation Department, Ministry of Agriculture	4.CONDITIONS AND DEVELOPMENT IMPACTS					1) To mitigate the flood damages in the areas developed. 2) To improve the drainage conditions which may be deteriorated by the proposed land reclamation project. 3) To improve inundation by high tide. 4) To improve hygienic condition of under area. Economic Evaluation Conditions: 1) Annual operation and maintenance cost is 1.0% of economic construction cost. 2) The Project benefits are realized 5 year later after the commencement of the project implementation. 3) The social discount rate is 8.0%. 4) The opportunity cost of capital is 8.0%. Results: EIRR for Pinang river is 15.1% and B/C 1.9 EIRR for Keluang river is 14.6% and B/C 2.15 EIRR for other rivers is below 9.0					
7.OBJECTIVES OF STUDY	-Flood Mitigation for 25 rivers in Penang Island -Drainage in Georgetown	5.TECHNICAL TRANSFER	1. To accept a trainee. 2. Provision and instruction for instruments. 3. Cooperated works in collection and analysis of information.									
8.DATE OF S/W	Mar.1989	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					Survey, Water Quality/Riverside Material, Sediments					
9.CONSULTANT(S)	Pacific Consultants International Nihon Koei Co., Ltd.	12.EXPENDITURE	Total 343,426 (¥000) Contracted 167,604									
10.STUDY TEAM	No.of Members 12 Period Jul.1989-Apr.1990 (10 months)	3.PRINCIPAL SOURCE OF INFORMATION					①②					
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td style="text-align: center;">46.17</td> <td style="text-align: center;">22.17</td> <td style="text-align: center;">24.00</td> </tr> </table>	Total M/M	Japan	Field	46.17	22.17					24.00	2.MAJOR REASONS FOR PRESENT STATUS
Total M/M	Japan	Field										
46.17	22.17	24.00										

和名 ペナン島洪水緩和排水計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 210B/90

Compiled Mar.1992
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	Flood Mitigation and Drainage in Penang Island	Georgetown, Penang River, Keluang River					
3.SECTOR	Social Infrastructures/River & Erosion Control	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1)	79,120	56,926	22,194	
5.TYPE OF STUDY	(M/P)+F/S	1US\$=140yen=2.7M\$		2)			
6.COUNTERPART AGENCY	Drainage and Irrigation Department, Ministry of Agriculture			3)			
7.OBJECTIVES OF STUDY	Flood Mitigation	3.CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1992 Overseas Survey) The State Government applied for a budget for flood mitigation under the 6th Malaysia Plan. The Federal Government approved an allocation of RM 19.81 million for the preparation of detailed designs of four urgent projects and contract/tender documents and for the acquisition of land. A local consulting firm (MINCONSULT Sdn Bhd) was appointed to undertake a detailed design study, during the period from Feb.1993 to Aug.1994 (18 months). The first construction contract is expected to be called in Sept.1993.	
8.DATE OF S/W	.1989	1. River improvement of Penang and Keluang river systems. 2. Construction of Dondang Retention Ponds. 3. Construction of Air Terjun and Relau diversion channels. 4. Improvement of drains and construction of the retention ponds with pumping facilities for drainage systems. (S-10, S-18, and N-12)					
9.CONSULTANT(S)	Pacific Consultants International Nihon Koei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM	No.of Members 13 Period Jun.1990-Mar.1991 (10 months)	Conditions and Development Impacts: Development Impacts: 1. Upgrading of land use value by mitigating the flood damages. 2. Improvement of environment.				2.MAJOR REASONS FOR PRESENT STATUS (FY1992 Overseas Survey) The principal reason is the need to reduce flooding problems that affect the local population.	
	Total M/M Japan Field	Benefits: Area: 23 sq.km ; Population: 258000					
	44.17 16.17 28.00						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Survey Water Quality Geological EIA	5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION ①②	
12.EXPENDITURE	Total 343,426 (¥'000)	1. To accept two trainees 2. Workshop training 3. Seminar					
	Contracted 167,604						

和名 ペナン島洪水緩和排水計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/A 202A/90

Compiled Mar.1992
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	924 non-granary irrigated schemes		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Rationalization and Crop Diversification in Non-granary Irrigated Areas	2.PROJECT COST	Total Cost	Local Cost	(Description) A feasibility study was conducted on three schemes following the master plan phase of the JICA study.							
3.SECTOR	Agriculture/General	(US\$1,000)	1)	2)								
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)			(Description) A feasibility study was conducted on three schemes following the master plan phase of the JICA study.							
5.TYPE OF STUDY	M/P+ (F/S)	1. The nationwide inventory survey on 924 non-granary irrigation schemes was carried out to evaluate the present situation and to obtain the various information required for preparing the crop diversification plan. For effective use of the information collected through the inventory survey, a database was set up to provide users with updated information to facilitate planning and decision making on crop diversification programs. 2. The crop diversification potential of each non-granary irrigation scheme was evaluated by category selecting 1st, 2nd, 3rd and 4th priorities for each scheme. 3. the distribution of non-granary irrigation schemes with 1st priority are as follows: (1) Schemes to be converted to high value crop cultivation..... 144 schemes (2) Schemes to be converted to tree crop cultivation 334 schemes (3) Schemes with double-cropping system (paddy during the main season and short-term annual crops during the off-season) 46 schemes (4) Schemes to be maintained for paddy cultivation (minigranary area).. 74 schemes (5) Schemes to be maintained for paddy cultivation for a definite period of time 172 schemes (6) Schemes to be converted to housing/industrial and other uses 154 schemes										
6.COUNTERPART AGENCY	Economic Planning Unit (EPU), Prime Minister's Department Drainage and Irrigation Dept.	4.CONDITIONS AND DEVELOPMENT IMPACTS										
7.OBJECTIVES OF STUDY	Inventory resource survey of all non-granary irrigated schemes	1. The promotion of crop diversification plan of a particular non-granary irrigation scheme can be achieved with provision of necessary actions. 2. An information management system for the non-granary irrigated areas can be used for monitoring future scheme performance. 3. The idle paddy fields will be gradually phased out and used for production of more remunerative crops than paddy.										
8.DATE OF S/W	Jul.1988	10.STUDY TEAM										
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Hokkaido Engineering Consultants Co., Ltd.	No.of Members 10 Period Feb.1989-Oct.1990(20 months)										
		<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: center;">70.83</td> <td style="text-align: center;">30.17</td> <td style="text-align: center;">40.66</td> </tr> </tbody> </table>					Total M/M	Japan	Field	70.83	30.17	40.66
Total M/M	Japan	Field										
70.83	30.17	40.66										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Farmers' Intention Survey done by local consultant	5.TECHNICAL TRANSFER										
12.EXPENDITURE		One-week training workshop on proper use of the computerized information management system to 31 participants										
		<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">231,375 (¥'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">227,613</td> </tr> </tbody> </table>			Total	231,375 (¥'000)	Contracted	227,613				
Total	231,375 (¥'000)											
Contracted	227,613											
					2.MAJOR REASONS FOR PRESENT STATUS							
					3.PRINCIPAL SOURCE OF INFORMATION							
					①②							

和名 非穀倉灌溉地区合理化・作付多様化計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/A 202B/90

Compiled Mar.1992
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		12 non-irrigated schemes selected in P.Pinang, Negri Sembilan and Kelantan States					
Rationalization and Crop Diversification in Non-granary Irrigated Areas		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description) (FY1992 Overseas Survey) 1. Following the master plan study, major recommendations therein were included under the 6th Malaysia Plan. The implementation is proceeding at a slow pace, because the proposed project involves large tracts of land throughout the peninsula, and requires large outlays of capital. Under the 6th Malaysia Plan, a total of RM 3.5 million has been allocated to promote the implementation. 2. The Drainage and Irrigation Dept.(DID) identified three schemes each with a model farm of approximately 20ha. The engineering surveys have been completed in 1992 on the model farms at the three schemes: namely, Kulim in Kedah, Rapek in Kelantan and Mampung in Negri Sembilan. The model farm at Kulim is under construction. 3. DID has applied to JICA for funds to implement a mini-project type scheme, and also requested for the assistance of a soil/irrigation and drainage expert.
3.SECTOR				1)	10,576		
Agriculture/General				2)			
4.REFERENCE NO.				3)			
5.TYPE OF STUDY		(M/P)+F/S		3.CONTENTS OF MAJOR PROJECT(S)			
6.COUNTERPART AGENCY		Economic Planning Unit (EPU), Prime Minister's Department Drainage and Irrigation Dept.		1. Kulim area (3,223ha) (1) A stepwise procedure to introduce crop diversification was proposed as follows: Initial stage: Introduction of non-paddy crops during the off-season Final stage: Intensive upland crop cultivation (300% cropping intensity) (2) Upgrading of infrastructures - On-farm development of 1,474 ha - Rehabilitation of the pump station - Construction of 3 tidal gates - Rehabilitation of secondary canals - Rehabilitation of Jarak link canal - Construction of Jarak river bund 2. Mampong area (517ha) (1) Present paddy fields will be converted to permanent crop fields (2) Upgrading of infrastructures - Construction of feeder drains(11,500m) - Construction of farm roads(4,600m) - Constructio of 46 drainage control structures 3. Kelantan area (930 ha) (1) A double-cropping system such as paddy during the main season and short-term annual crops during the off-season was proposed. (2) Provision of intensive on-farm facilities - 50 m/ha of irrigatio and drainage canals - 100 m/ha of farm roads			
7.OBJECTIVES OF STUDY		Formulation of Crop Diversification Plan		4.FEASIBILITY AND ITS ASSUMPTIONS			
8.DATE OF S/W		Jul.1988		Imp. Period:			
9.CONSULTANT(S)		Nihon Koei Co., Ltd. Hokkaido Engineering Consultants Co., Ltd.		Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM		No.of Members 20 Period Feb.1989-Oct.1990(20 months)		(1) 27.20 (2) 12.50 (3) 22.90			
		Total M/M		Conditions and Development Impacts: 1. Kulim area (1) The net incremental benefits "with project" were estimated at 14,799 M\$/ha. (2) The FIRR is estimated at 27.2%. 2. Mampong area (1) The incremental benefits for oil palm and cocoa were estimated at 1,252 M\$/ha and 2,515 M\$/ha, respectively. (2) The FIRR is estimated by crop as follows: - Oil palm 12.5% - Cocoa 23.0% 3. Kelantan area (1) Annual net benefits "with project" were estimated at 4,157,000 M\$. (2) The FIRR is estimated at 22.9%.			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Detailed farmers' intention survey done by local consultant		5. TECHNICAL TRANSFER			
12.EXPENDITURE		Total 231,375 (¥'000) Contracted 227,613		-National seminar on crop diversification for 3 days with 170 participants. -Final lecture and discussion with 18 State coordinators for 3 days.			
				3.PRINCIPAL SOURCE OF INFORMATION			
				①②			

和名 非穀倉灌溉地区合理化・作付多様化計画

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

PROJECT SUMMARY (F/S)

ASE MYS/S 317/90

Compiled Mar.1992
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	In and around Kuala Lumpur City and in the Klang Valley Region, Malaysia (Rawang - Kuala Lumpur - Seremban, about 106km)			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	Rail-Based Commuter Services in Klang Valley	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) (FY1992 Overseas Survey) This JICA study was conducted simultaneously with another study (the Double Tracking Project) by the Malaysian Government. The programs and projections of the two studies which were deemed suitable were integrated for implementation. The Double Tracking Project (DTP) is under implementation, albeit somewhat behind the schedule. Financing was obtained from OECF of Japan and UK's ODA in addition to the Govt. funds. The Rawang - Seremban sections (106km), for which the JICA study proposed various improvements, is being implemented as part of DTP. DTP constitutes the first phase, and the major component, of the railway improvement program of Malaysia, and other programs and recommendations will be implemented after the completion of DTP in mid-1995. (Related Information) 1. After the start of DTP implementation, the Malaysian Govt. decided on the electrification of the entire sections. Although the OECF loan has not been adjusted to date, the on-going project is being implemented so as to assimilate the electrification. 2. Some relevant proposals have been planned for the project area. Firstly, a suburban railway with 5 radial lines and 2 branch lines is proposed in the 25km-radius of KL. A private consortium was awarded the contract to build one of the lines (CBD to Ampang 12km). Secondly, it was decided in 1991 to include medium-volume guided transport systems, in addition to monorails, as alternatives of	
		(US\$1,000)	1) 228,461	58,158	170,303		
3.SECTOR	Transportation/Railway	3.CONTENT(S) OF MAJOR PROJECT(S)	1. Improvement of railway facilities: Rawang-Kuala Lumpur-Seremban (106km) 1) New construction of three halts, and new or additional construction of station buildings and passenger facilities. 2) New signalling and telecommunications systems (automatic signal, automatic train protection system, etc.) 3) Commuter train operation by diesel railcars (about 170 cars), and reinforcement of car inspection and storage facilities. 2. Integrated transport (intro. of feeder buses of about 860 cars)			In 1987, a JICA study proposed a Master Plan on transport for the regions concerned for the target year of 2005. The large-volume high-speed railway system to be used for commuter transport was one of the high-priority projects proposed in the Master Plan. In order to strengthen the railway passenger and freight transport capacities in the regions, the Malaysian Government decided moreover to implement the double tracking project (double tracking, modernization of signalling and telecommunications facilities, and introduction of DMUs) to be completed in 1993. In addition, monorail and LRT projects are about to start in order to alleviate the road traffic congestion in and around Kuala Lumpur City. The present Study proposes the reinforcement of railway-based commuter service (RBCS) between Rawang, Kuala Lumpur and Seremban, on the assumption that the Malaysian projects above be completed as scheduled.	
4.REFERENCE NO.		5.TYPE OF STUDY	F/S				
6.COUNTERPART AGENCY	Economic Planning Unit (EPU)	7.OBJECTIVES OF STUDY	F/S on a project for introducing a rail-based commuter service to the Klang Valley Region			Imp. Period: 1993-2005 4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes EIRR1) 28.81 FIRR1) 2.84 EIRR2) FIRR2) EIRR3) FIRR3)	
8.DATE OF S/W	May.1989	9.CONULTANT(S)	Japan Railway Technical Service Pacific Consultants International				
10.STUDY TEAM	No. of Members 11 Period Jan.1990-Feb.1991 (12 months)	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Conditions and Development Impacts: Conditions: 1) The values of investments and maintenance and operation costs are calculated by deducting customs and taxes from commercial prices, and converted to economic prices by using the rates established by EPU (Economic Planning Unit). CIF prices are used for imported materials. 2) Initial investment costs are applied for the replacement of the assets. 3) Project life of 30 years (1993 - 2022) 4) Inflation is not considered 5) Foreign exchange rate of September 1990 (M\$1 = 51.5yen) 6) Residual values of the assets to be depreciated are calculated as negative investment, by evaluating the length of remaining service life at the end of project life. Development Impacts: 1) Alleviation of road traffic congestion by the transport capacity of 4.5 million passenger-km per day in 2005 and also by the train operation at 10 minute intervals during peak hours throughout the year 2) Development of satellite cities along the railway route, development of related industries, and increase in opportunities of employment 3) Improvement of air pollution by alleviation of road traffic congestion			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.	
12.EXPENDITURE	Total 214,295 (¥'000) Contracted 206,389	5. TECHNICAL TRANSFER	1) OJT in respect of railway technologies, methods of demand forecast, regional development planning, etc. 2) One counterpart training on demand forecast in Japan in Nov. 1990			3.PRINCIPAL SOURCE OF INFORMATION ①②	

和名 クランバレー地域鉄道改良計画

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

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1993
Revised

ASE MYS/S 211A/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Malaysia	1.SITE OR AREA	Rajang Port Area and its surroundings, Sarawak 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	Development of Rajang Port	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) A feasibility study was subsequently undertaken on the short-term development plan.
3.SECTOR	Transportation/Port		(US\$1,000)	1) 128,879	2)	
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)				
5.TYPE OF STUDY	M/P+(F/S)	Master Plan (through 2010)				
6.COUNTERPART AGENCY	Rajang Port Authority, Sarawak	(1) Timber Products Terminal Wharves -10m 750m -5m 300m Yards -5m 335,000m ²				
7.OBJECTIVES OF STUDY	Short-term and Long-term Development Plan for the Rajang Port	(2) Coal Terminal Wharves -10m 200m -5m 235m Yards -5m 71,000m ²				
8.DATE OF S/W	Jan.1990	4.CONDITIONS AND DEVELOPMENT IMPACTS				
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Ocean Consultant Japan Co., Ltd.	Development Impacts: 1. Construction of the timber products terminal will replace the present off-shore cargo handling with modernized cargo handling at the terminal. This will reduce the costs of cargo handling and operating tug boats and barges and save the waiting time of vessels. 2. The economic transportation service provided by the proposed terminals will attract sawmills and other related industries to the Timber Processing Zone, and stimulate the regional development.				
10.STUDY TEAM	No.of Members 11 Period Aug.1990-Feb.1992 (19 months)				2.MAJOR REASONS FOR PRESENT STATUS	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	- Cargo Flow Survey - Natural Condition Survey				3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE	Total 261,452 (¥'000) Contracted 253,034	5.technical transfer			①②	
		- Lecture on the method of demand forecast in Rajang Port Authority - Counterpart training :RPAI, EPUI				

和名 ラジャン港開発計画

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

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 211B/91

Compiled Mar.1993
Revised

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 type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY Development of Rajang Port		Rajang Port Area and its surroundings, Sarawak State, Malaysia									
3.SECTOR Transportation/Port		2.PROJECT COST (US\$1,000)		Total Cost	Local Cost	Foreign Cost					
4.REFERENCE NO.				1) 51,772	34,505	17,267					
5.TYPE OF STUDY (M/P)+F/S		3) 2)									
6.COUNTERPART AGENCY Rajang Port Authority, Sarawak		3.CONTENTENTS OF MAJOR PROJECT(S) Short-term Plan (through 1997)				(Description) (FY1992 Overseas Survey) - A steering Committee has been formed by the State Government to consider the findings of the JICA Study. The 1st meeting was held in Jan. 28th 1993. - Pending the deliberations of the Steering Committee over the submitted JICA Report, the Ministry of Infrastructure Development will prepare a Cabinet Paper for final approval by the State Government. - At present, it appears likely that the Sarawak Timber Industry Development Corporation (STIDC) be proposed to take over the development of a timber complex at Tanjong Manis.					
7.OBJECTIVES OF STUDY Short-term and Long-term Development Plan for the Rajang Port		(1) Timber Products Terminal Wharves -10m 300m -5m 180m Yards 100,000m ²									
8.DATE OF S/W Jan.1990		Imp. Period: 1994-1996									
9.CONSULTANT(S) Overseas Coastal Area Development Institute of Japan Ocean Consultant Japan Co., Ltd.		4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes		EIRR1) 22.20 EIRR2) EIRR3)	FIRR1) 10.60 FIRR2) FIRR3)						
10.STUDY TEAM No.of Members 11 Period Aug.1990-Feb.1992 (19 months)		Conditions and Development Impacts: Development Impacts: 1. Construction of the timber products terminal will replace the present off-shore cargo handling with modernized cargo handling at the terminal. This will reduce the costs of cargo handling and operating tug boats and barges and save the waiting time of vessels. 2. The economic transportation service provided by the proposed terminals will attract sawmills and other related industries to the Timber Processing Zone, and stimulate the regional development.				2.MAJOR REASONS FOR PRESENT STATUS					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">71.55</td> <td style="text-align: center;">35.95</td> <td style="text-align: center;">35.60</td> </tr> </table>		Total M/M	Japan	Field	71.55			35.95	35.60	5.TECHNICAL TRANSFER - Lecture on the method of demand forecast in Rajang Port Authority - Counterpart training :RPAI, EPUI	
Total M/M	Japan	Field									
71.55	35.95	35.60									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY - Cargo Flow Survey - Natural Condition Survey		3.PRINCIPAL SOURCE OF INFORMATION ①②									
12.EXPENDITURE											
Total 261,452 (¥'000)											
Contracted 253,034											

和名 ラジャン港開発計画

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

PROJECT SUMMARY (M/P)

ASO MYN/A 101/79

Compiled Mar.1990

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Myanmar	1.SITE OR AREA	2.900,000ha in the mid-stream basin of Irrawaddy River		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use					
2.NAME OF STUDY	Irrawaddy Basin Integrated Agricultural Development Project	2.PROJECT COST					<input type="checkbox"/> Delayed	<input type="checkbox"/> Discontinued			
3.SECTOR	Agriculture/General		Total Cost Local Cost Foreign Cost	(Description) Based on the recommendations of the study, F/S and D/D were conducted on the following projects. South Nawin Irrigation Project: F/S completed in 1979; D/D completed in 1984; since late 1986, project implementation by OECF funding has been in considerable delay. The detailed design was started on the mini-hydropower plant, but suspended owing to the political destabilization. Okkan Irrigation Project F/S completed in 1981; given the funding constraints, the implementation will come after the completion of the South Nawin project. (FY1991 Overseas Survey) The Myanmar Government has named 1992 as the year of economy, and aims to increase the country's agricultural production and exports. Because of the suspension of external assistance on new projects and the shortage of foreign exchange, however, it is unlikely to realize the objectives. The South Nawin project is under construction with OECF fund, because it was already on-going when the suspension took effect. With regard to the Okkan project and other proposals, there is no definite prospect of implementation because of the suspension. However, the proposals of the JICA study are integrated into the national plan, and their implementation will be eventually taken up in the future.							
4.REFERENCE NO.			1) 2,020,000								
5.TYPE OF STUDY	M/P	3.CONTENTES OF MAJOR PROJECT(S)	2)								
6.COUNTERPART AGENCY	Ministry of Agriculture and Forestries	Irrigation project by dams in 26 sites (including small hydropower generation) Road project Accomplishment of dry farm land in swamp Improvement of pilot field Husbandry promotion project									
7.OBJECTIVES OF STUDY											
8.DATE OF S/W	Oct.1977	4.CONDITIONS AND DEVELOPMENT IMPACTS									
9.CONSULTANT(S)	Sanyu Consultants Inc.	Expansion of food crop production centering on rice is planned by irrigation through constructing dams in 26 sites. Rise in living standard and income of farmers family is planned by promoting agriculture with husbandry and introducing fishery in reservoir ponds.									
10.STUDY TEAM	No.of Members 14 Period Feb.1978-Mar.1980(26 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> <tr> <td style="text-align: center;">55.36</td> <td style="text-align: center;">31.73</td> <td style="text-align: center;">23.63</td> </tr> </table>	Total M/M	Japan				Field	55.36	31.73	23.63	
Total M/M	Japan	Field									
55.36	31.73	23.63									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER									
12.EXPENDITURE		1.Acceptance of two trainees 2.Establishing observation equipment of weather and water condition, and training of how to use them		2.MAJOR REASONS FOR PRESENT STATUS The projects proposed by the JICA study are considered essential for agricultural stabilization in the Irrawaddy Basin. The Government plans to implement them step by step. Due to political and economic destabilization in recent years, however, the implementation will be inevitably delayed.							
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total</td> <td style="width: 33%;">293,115 (¥'000)</td> <td style="width: 33%;"></td> </tr> <tr> <td>Contracted</td> <td>243,519</td> <td></td> </tr> </table>			Total	293,115 (¥'000)		Contracted	243,519		3.PRINCIPAL SOURCE OF INFORMATION ①②④	
Total	293,115 (¥'000)										
Contracted	243,519										

和名 イラワジ川流域農業総合開発計画

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

PROJECT SUMMARY (F/S)

ASO MYN/A 301/79

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT					
1.COUNTRY	Myanmar	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	Rice Mill Project	Kanaungtoe, Bassein, Kyduktaqa, Kawa, Hlequ, Danubyu, Einme, Deddye									
3.SECTOR	Agriculture/Agricultural Processing	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost					
4.REFERENCE NO.		(US\$1,000)	1)	43,715	21,950	21,765					
5.TYPE OF STUDY	F/S	US\$1=6.5K.=200Yen		2)							
6.COUNTERPART AGENCY	Ministry of Trade			3)							
7.OBJECTIVES OF STUDY	F/S on construction of Rice Mills (8 factories)	3.CONTENTS OF MAJOR PROJECT(S)				(Description) Dec. 1979 OECF L/A signed (No.BP-14, 4.35 billion yen) Jan.1981 - Feb.1982 Detailed Design undertaken by OMIC Dec.1982 Construction started Dec.1984 Construction completed Facilities completed by the OECF loan: - 6 Rice mills of 7 tph capacity. - 2 Rice mills of 10 tph capacity - Parts manufacturing plant - Rubber roll manufacturing facility, one unit - Abrasive roll manufacturing facility, one unit - Power generating unit utilizing husk, paddy warehouse and paddy unloading equipment were installed at rice mills. After completion of construction, the project was judged very effective, and the Myanmar Government proposed to use the remaining balance of the OECF loan for the construction of three large-scale rice mills which will process export-quality rice. The detailed design was duly completed, but implementation was suspended after the coup d'etat in 1988. (FY1991 Overseas Survey) The suspension still remains in force in early 1992.					
8.DATE OF S/W	.0	Imp. Period: Dec.1979-Oct.1981									
9.CONSULTANT(S)	Overseas Merchandise Inspection Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 21.40 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)					
10.STUDY TEAM	No.of Members 9 Period Jan.1979-Aug.1979 (8 months)	Conditions and Development Impacts: (Preconditions) Benefits are computed by taking difference between outputs of new rice mills with-project and old ones without-project, on the assumption of putting the same total amount and quality of paddy into each of them. Benefits Unit:1,000K Output From 1982 1983 1984 1985 New Rice Mill 290,561 336,270 406,895 489,391 Old Rice Mill 256,924 278,377 309,694 342,054 Benefits 33,637 57,893 97,201 147,337 (Development Impacts) Newly built rice mills improve quality and quantity of milled rice. It has the profound meaning to the country like Myanmar, where rice is the mainstay of her national economy, and the national finance relies greatly on rice exports.				2.MAJOR REASONS FOR PRESENT STATUS 1. Increase in output and improvement of quality of milled rice are very important in the national economy, and the government assigned high priority to the proposed project. 2. Political destabilization makes it difficult to implement the construction of three large-scale rice mills. In addition, the Myanmar Government reportedly has decided to implement them with their own funds. (FY1991 Overseas Survey)					
<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;">28.17</td> <td style="text-align: center;">17.94</td> <td style="text-align: center;">10.23</td> </tr> </table>		Total M/M	Japan	Field	28.17			17.94	10.23	5. TECHNICAL TRANSFER	
Total M/M	Japan	Field									
28.17	17.94	10.23									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		3.PRINCIPAL SOURCE OF INFORMATION				①②④					
12.EXPENDITURE											
Total				72,813 (¥000)							
Contracted				70,733							

和名 ライスミル建設計画

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

PROJECT SUMMARY (F/S)

ASO MYN/S 301/80

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																
1.COUNTRY	Myanmar	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	Rangoon International Airport Development	Yangon																																				
3.SECTOR	Transportation/Air Transportation & Airport	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost																																
4.REFERENCE NO.		(US\$1,000)	1) 127,134	38,156	88,978	(Description) The project is under implementation with OECF financing. Apr.1981 OECF E/S loan agreement (500 million yen) Jan.1984 D/D completed Aug.1984 OECF loan agreement (14,370 million yen) May 1985 OECF loan agreement (8,350 million yen) May 1986 OECF loan agreement (4,450 million yen) Construction works were suspended in the aftermath of coup d'etat in September 1988. (FY1991 Overseas Survey) At the time of the coup d'etat in 1988, two OECF loans had been in the process of implementation. The construction works still remain suspended after three years. In view of the rapid inflation, it will be necessary to redo the costing before resuming construction.																																
5.TYPE OF STUDY	F/S	(US\$1=240Yen=6.35Kyat)	2)	3)																																		
6.COUNTERPART AGENCY	Dept. of Civil Aviation, Min. of Transport and Communications	3.CONTENTS OF MAJOR PROJECT(S)				(FY1991 Overseas Survey) At the time of the coup d'etat in 1988, two OECF loans had been in the process of implementation. The construction works still remain suspended after three years. In view of the rapid inflation, it will be necessary to redo the costing before resuming construction.																																
7.OBJECTIVES OF STUDY	Plan facility upgrading : study of economic/ financial feasibility and socio-economic effects; recommendation on administrative organization	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Components</th> <th style="width: 35%;">Target year 1995 (Phase I)</th> <th style="width: 35%;">Target year 2005 (Phase II)</th> </tr> </thead> <tbody> <tr> <td>- Runway (Existing 2,500m x 60m)</td> <td style="text-align: center;">3,330m x 60m</td> <td style="text-align: center;">3,700m x 60m</td> </tr> <tr> <td>- Apron (Existing 175m x 424m)</td> <td style="text-align: center;">110,529sq.m</td> <td style="text-align: center;">137,529sq.m</td> </tr> <tr> <td>- Int'l Terminal Bldg.</td> <td style="text-align: center;">9,270sq.m</td> <td style="text-align: center;">17,600sq.m</td> </tr> <tr> <td>- Control Tower, Administrative Bldg. (Existing 490 m2)</td> <td style="text-align: center;">2,800sq.m</td> <td style="text-align: center;">2,800sq.m</td> </tr> <tr> <td>- NavAids</td> <td colspan="2" style="text-align: center;">Renewed for CAT-I</td> </tr> <tr> <td>- Radio Navigation Aids</td> <td colspan="2"></td> </tr> <tr> <td>- Meteorological Service Facilities</td> <td colspan="2"></td> </tr> <tr> <td>- Car Parking</td> <td colspan="2"></td> </tr> <tr> <td>- Fuel Storage</td> <td colspan="2"></td> </tr> <tr> <td>- Utilities, etc.</td> <td colspan="2"></td> </tr> </tbody> </table>						Components	Target year 1995 (Phase I)	Target year 2005 (Phase II)	- Runway (Existing 2,500m x 60m)	3,330m x 60m	3,700m x 60m	- Apron (Existing 175m x 424m)	110,529sq.m	137,529sq.m	- Int'l Terminal Bldg.	9,270sq.m	17,600sq.m	- Control Tower, Administrative Bldg. (Existing 490 m2)	2,800sq.m	2,800sq.m	- NavAids	Renewed for CAT-I		- Radio Navigation Aids			- Meteorological Service Facilities			- Car Parking			- Fuel Storage			- Utilities, etc.
Components	Target year 1995 (Phase I)	Target year 2005 (Phase II)																																				
- Runway (Existing 2,500m x 60m)	3,330m x 60m	3,700m x 60m																																				
- Apron (Existing 175m x 424m)	110,529sq.m	137,529sq.m																																				
- Int'l Terminal Bldg.	9,270sq.m	17,600sq.m																																				
- Control Tower, Administrative Bldg. (Existing 490 m2)	2,800sq.m	2,800sq.m																																				
- NavAids	Renewed for CAT-I																																					
- Radio Navigation Aids																																						
- Meteorological Service Facilities																																						
- Car Parking																																						
- Fuel Storage																																						
- Utilities, etc.																																						
8.DATE OF S/W	Jun.1979	Imp. Period: .1980-.2005				2.MAJOR REASONS FOR PRESENT STATUS 1) Large impact of long-haul service by large jets; 2) reasonable project scale for finance; 3) high priority (requested by Myanmar Communist Party Chairman Ne Win)																																
9.CONSULTANT(S)	Japan Airport Consultants, Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 12.10 EIRR2) EIRR3)			FIRR1) 2.40 FIRR2) FIRR3)																														
10.STUDY TEAM	No. of Members 10 Period Oct.1979-Mar.1980 (6 months)	Conditions and Development Impacts: Feasibility Conditional upon: 1) development of tourism resources, hotel capacity, and domestic transportation system to enhance convenience and amenity to tourists; 2) simplification of visa issuance procedures and extension of tourist visa period. Development Impacts: 1) Enhancement of economic/cultural exchange with foreign countries 2) Enhancement of inter-regional exchange within Myanmar 3) Increase in employment opportunities 4) Increase in fresh foodstuffs exports 5) Time saving increment by overseas direct flights 6) Net increase in tourish income and fuel supply revenue 7) Saved maintenance costs of existing facilities.				3.PRINCIPAL SOURCE OF INFORMATION ①②④																																
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey	5. TECHNICAL TRANSFER																																				
12.EXPENDITURE	Total 67,402 (¥'000) Contracted 63,466	1) OJT; 2) JICA counterpart training; 3) joint work with local consultants; 4) Subcontracting of topographic survey to the local firm																																				

和名 ラングーン国際空港拡張計画

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

PROJECT SUMMARY (F/S)

ASO MYN/A 302/80

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Myanmar	1.SITE OR AREA		74,000acre southwest of Prome City, left bank of Irrawaddy River, 160 miles north northwest of Rangoon, population 96000		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 South Nawin Irrigation Project		2.PROJECT COST						Total Cost
		(US\$1,000)	1)	7,900	2,900	5,000	(Description) The proposed project has been under implementation with the OECF loan and the Japanese grant aid. OECF Loan: Jan.1981 Loan agreement signed for E/S (250 million yen) Apr.1983 - Apr.1984 Detailed design undertaken (Sanyu Consultants, Inc. and Chuo Kaihatsu) May 1985 Loan agreement signed (8,150 million yen) for the construction of the Main Dam and irrigation and drainage canals Nov.1986 S/V started Jun.1988 - Oct.1989 Construction suspended owing to the domestic problem of Myanmar. Construction was subsequently resumed, and is scheduled to be completed in March 1994. Grant aid: Aug.1980 E/N signed (873 million yen) for on-farm development 1980 B/D and D/D undertaken 1981 - 1982 Construction undertaken (FY1991 Overseas Survey) Because of the shortage of diesel oil and construction materials,	
3.SECTOR Agriculture/General		3.CONTENTES OF MAJOR PROJECT(S)		US\$1=6.44kyats	2)	88,000		3)
4.REFERENCE NO.		Irrigation : first crop (paddy) 24,000ha second crop (farm) 22,660ha, total 46,660ha		3)	3)	51,400		
5.TYPE OF STUDY F/S		1)Main dam : Zoned type filldam, height 41.5m, length 5,120m, volume 5.10million cu.m capacity		2)Diversio dam: Zoned type filldam, height 30.2m, length 1,224m, volume 1.03million cu.m capacity		3)Power station : Kaplan type 2,300 KVA x 1 unit		
6.COUNTERPART AGENCY Ministry of Agriculture & Forests, Irrigation Department		4)Irrigation canal (main 51.5km, branch 41.1km, distributor 205.6, main water course 233.9km, supplemental water course 1,309.8km)		5)Drainage canal (main 37km, sub 86.3km, ditch 266.7km)		6)Road 597km		
7.OBJECTIVES OF STUDY		7)Field improvement		Note: The project cost1) above is for the pilot project, and 2) is for the whole projects.				
8.DATE OF S/W Dec.1978		Imp. Period: .1979-.1988		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes		
9.CONSULTANT(S) Sanyu Consultants Inc. Chuo Kaihatsu International Corp.		EIRR1) 13.50		FIRR1)				
10.STUDY TEAM		EIRR2)		FIRR2)				
No.of Members 12		EIRR3)		FIRR3)				
Period Jan.1979-Mar.1980 (15 months)		Conditions and Development Impacts:		[Conditions]		2.MAJOR REASONS FOR PRESENT STATUS		
Total M/M Japan Field		Economic benefits consist of agricultural benefits and benefits from electric power generation. Net benefits per acre are used as agricultural benefits.		Net Benefits(KS/ac)		1. The project is integrated into the national development plan and high in priority.		
		Without project		Paddy 1,951		2. In recent years, extreme foreign exchange constraint has made it difficult to import necessary construction materials and equipment.		
		With project		Peanuts 139		(FY1992 Overseas Survey)		
				Sesami 429		The Myanmar economy is based on agriculture, and the national economy can be developed after the completion of this project, which is considered top priority.		
				Gram 293				
				249				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		[Development Impacts]				3.PRINCIPAL SOURCE OF INFORMATION		
		(1)Increased agricultural productivity				①②④		
		(2)Improved living standard of people in rural areas						
		(3)Increased all year employment opportunities						
12.EXPENDITURE		5.TECHNICAL TRANSFER		(1)Acceptance of one trainee				
Total 163,131 (¥'000)		(1)Supply of equipments and training of how to use them		(2)Cooperation in writing a report				
Contracted 130,809								

和名 南ナウインかんがい計画

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

PROJECT SUMMARY (F/S)

ASO MYN/A 303/81

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	Myanmar	1.SITE OR AREA		About 21,000ha in Myitnaka River left bank (80km north northwest of the capital, Rangoon)		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled						
2.NAME OF STUDY Okkan Dam Irrigation Project		2.PROJECT COST (US\$1,000)		Total Cost 54,000	Local Cost 29,000			Foreign Cost 25,000					
3.SECTOR Agriculture/General		3.CONTENTES OF MAJOR PROJECT(S)				(Description) After completion of the study, the Myanmar Government planned to apply for OECF funding, but because of the subsequent economic and political destabilization, the attempt fell through. (FY1991 Overseas Survey) The Myanmar Government retains an interest in the implementation of the proposed project, and continues to expect Japanese technical and financial assistance on its detailed design and construction. The master plan prepared by the JICA study (Irrawaddy Basin Integrated Agricultural Development Project) indicated that this Okkan dam irrigation project would be more feasible than the on-going South Nawin irrigation project. However, the South Nawin project was first requested for, and approved of, OECF funding for a political reason (South Nawin being the birthplace of Ne Win). The request for OECF funding on the Okkan project was in the pipeline after the approval and implementation of the South Nawin project, but the subsequent action has been suspended due to the continued political and economic instability since the coup d'etat in 1988.							
4.REFERENCE NO.		Irrigation area: 21,000ha Water resource facility : Okkan Dam(pondage 240 X 1,000,000 cu.m) Diversion weir : height 9m, bank length 44m, max. intake discharge Q=22.5cu.m/sec Irrigation and drainage canals : irrigation 225.6km drainage 135.5km											
5.TYPE OF STUDY		Terminal facilities : irrigation canal 1,426 km, drainage canal 236.9km Waterpower generation : water mill 2,450kw, 1 unit, electric transmission wire 33kv, 32.6km											
6.COUNTERPART AGENCY Minstry of Agriculture and Forestry, Department of Irrigation		7.OBJECTIVES OF STUDY Increase of rice production											
8.DATE OF S/W		Imp. Period: .1981-.1989											
9.CONSULTANT(S) Sanyu Consultants Inc.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes EIRR1) 26.15 FIRR1) EIRR2) 10.53 FIRR2) EIRR3) FIRR3)		2.MAJOR REASONS FOR PRESENT STATUS Continuing political and economic destabilization makes it difficult to resume the loan application.							
10.STUDY TEAM		Conditions and Development Impacts: Condition: Opportunity cost of capital 11% Development Impacts: The increase of farms' profit will be planned through water resource development, building of irrigation and drainage facilities, completion of terminal facilities, improvement of road network and introduction of two kinds of planting in one field and HYV. *EIRR 2) above is only for water power project.				3.PRINCIPAL SOURCE OF INFORMATION ①②							
No.of Members 10 Period Jan.1981-Nov.1981(11 months)		5.technical transfer											
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total M/M</td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> </tr> <tr> <td style="text-align: center;">37.85</td> <td style="text-align: center;">19.46</td> <td style="text-align: center;">18.39</td> </tr> </table>		Total M/M	Japan	Field	37.85	19.46	18.39	12.EXPENDITURE					
Total M/M	Japan	Field											
37.85	19.46	18.39											
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">105,200 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td style="text-align: center;">94,376</td> </tr> </table>				Total	105,200 (¥'000)	Contracted	94,376				
Total	105,200 (¥'000)												
Contracted	94,376												

和名 オカンドムかんがい計画

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

PROJECT SUMMARY (F/S)

ASO MYN/S 303/84

Compiled Mar.1988
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																					
1.COUNTRY	Myanmar	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>(US\$1,000)</td> <td style="text-align: center;">79,480</td> <td style="text-align: center;">25,410</td> <td style="text-align: center;">54,070</td> </tr> <tr> <td>(US\$1= 229Yen)</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)	79,480	25,410	54,070	(US\$1= 229Yen)	1)	2)	3)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><input type="checkbox"/> Completed or in Progress</td> <td style="width: 20%;"><input type="checkbox"/> Promoting</td> </tr> <tr> <td><input type="checkbox"/> Completed</td> <td><input checked="" type="checkbox"/> Delayed or Suspended</td> </tr> <tr> <td><input type="checkbox"/> Implementing</td> <td><input type="checkbox"/> Discontinued or Cancelled</td> </tr> <tr> <td><input type="checkbox"/> Processing</td> <td></td> </tr> </table>		<input type="checkbox"/> Completed or in Progress	<input type="checkbox"/> Promoting	<input type="checkbox"/> Completed	<input checked="" type="checkbox"/> Delayed or Suspended	<input type="checkbox"/> Implementing	<input type="checkbox"/> Discontinued or Cancelled	<input type="checkbox"/> Processing	
	Total Cost	Local Cost	Foreign Cost																								
(US\$1,000)	79,480	25,410	54,070																								
(US\$1= 229Yen)	1)	2)	3)																								
<input type="checkbox"/> Completed or in Progress	<input type="checkbox"/> Promoting																										
<input type="checkbox"/> Completed	<input checked="" type="checkbox"/> Delayed or Suspended																										
<input type="checkbox"/> Implementing	<input type="checkbox"/> Discontinued or Cancelled																										
<input type="checkbox"/> Processing																											
2.NAME OF STUDY Electrification of Rangoon Circular Railway Line		2.PROJECT COST		1.PRESENT STATUS (Description) After the completion of the study, no progress has been made. The Myanmar Government once tried to include the project in the application list for OECF yen credit, but because of the growing arrears in loan repayment, new projects were not accepted. (FY1991 Overseas Survey) No action has been taken since the coup d'etat in 1988. Even if the suspension of assistance by the donor countries is to be lifted some time in the future, the electrification of the circular railway would not be effective, given the extremely poor status of power supply in Rangoon. The project scale will have to be reduced with more emphasis on track improvement and other modifications. The priority of this project is considered lower than "Track, Telecommunication and Signalling Improvement Project," on which the JICA study was undertaken in 1986-87.																							
3.SECTOR Transportation/Railway		3.CONTENTIS OF MAJOR PROJECT(S)																									
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS		2.MAJOR REASONS FOR PRESENT STATUS Due to the delay of the loan repayment, Myanmar has been classified as LLDC.																							
5.TYPE OF STUDY F/S		Feasibility: Yes EIRR1) 15.40 FIRR1) 5.10 EIRR2) FIRR2) EIRR3) FIRR3)																									
6.COUNTERPART AGENCY Burma Railway Corporation		Conditions and Development Impacts: 1. Preconditions The project period was set to last until 2019, with the start of construction to begin in Oct.1986 and electrified service to be offered in 1990. Traffic volume in Rangoon was forecasted for 1990, 2000, 2010, and 2020 for the "with" and "without" cases. Based on the results, the feasibility was studied by applying cost-benefit analysis. The cost-benefit items taken up were travel time saving, railway investment, railway operation cost, and road investment. 2. Development impacts 1) Restoration of the railway's role as a mass transport mode, which will contribute to smooth urban traffic; 2) alleviation of road traffic congestion; 3) reduction of air pollution; 4) fuel savings; 5) creation of employment opportunities; 6) stimulus to technical development; and 7) Promotion of development around Rangoon		3.PRINCIPAL SOURCE OF INFORMATION ①②																							
7.OBJECTIVES OF STUDY Electrification project to strengthen transport capacity and modernize the national railway in the Rangoon city area		5. TECHNICAL TRANSFER 1. One JICA counterpart training; 2. OJT																									
8.DATE OF S/W Aug.1983		Imp. Period: Oct.1986-Jan.1990		10.STUDY TEAM No.of Members 12 Period Feb.1984-Mar.1985 (13 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">Total M/M</td> <td style="width: 33%; text-align: center;">Japan</td> <td style="width: 33%; text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">44.12</td> <td style="text-align: center;">29.52</td> <td style="text-align: center;">14.60</td> </tr> </table>		Total M/M	Japan	Field	44.12	29.52	14.60																
Total M/M	Japan	Field																									
44.12	29.52	14.60																									
9.CONSULTANT(S) Japan Railway Technical Service		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY None		12.EXPENDITURE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;">Total</td> <td style="width: 20%; text-align: center;">124,018 (¥000)</td> </tr> <tr> <td></td> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">123,136</td> </tr> </table>			Total	124,018 (¥000)		Contracted	123,136																
	Total	124,018 (¥000)																									
	Contracted	123,136																									

和名 ラングーン鉄道環状線電化計画

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

PROJECT SUMMARY (F/S)

ASO MYN/S 302/84

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Myanmar	1.SITE OR AREA		Chilawa in Rangoon		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Construction of Dry - Dock Project	2.PROJECT COST		Total Cost	Local Cost		
3.SECTOR	Transportation/Marine Transportation & Ships			1) 145,000	33,000	112,000	(Description) 1985 May OECF E/S loan agreement (533 million yen) and the budget allocation of 1 million Kyats 1985 Sept. E/S started 1986 Sept. E/S completed (Fy1991 Overseas Survey) The Myanmar Government applied for an OECF loan in 1989, but failed to get the approval. No action has been taken since then.
4.REFERENCE NO.				2) (US\$1=150Yen)			
5.TYPE OF STUDY	F/S			3)			
6.COUNTERPART AGENCY	Burma Dockyards Corporation	3.CONTENTES OF MAJOR PROJECT(S)		Dry Dock for 20,000 DWT-class ships (200m x 30m x 10.5m depth)			
7.OBJECTIVES OF STUDY	Feasibility study of a dock yard						
8.DATE OF S/W	Apr.1983	Imp. Period:		Apr.1986-Apr.1990			
9.CONULTANT(S)	Overseas Ships Building Cooperation Center	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 13.50 EIRR2) EIRR3)	FIRR1) 8.70 FIRR2) FIRR3)		
10.STUDY TEAM	No.of Members 8 Period Aug.1983-Jul.1984(12 months)			Conditions and Development Impacts: The future demand is projected for the period of 1989 - 2018, based on the performance during the 3rd and 4th Development Plans. The project will expand the repair capacity from the present 1,500 DWT to 20,000 DWT.			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	None						
12.EXPENDITURE	Total 111,982 (¥000) Contracted 92,466	5.technical transfer		OJT for counterparts			
				2.MAJOR REASONS FOR PRESENT STATUS			
				Political destabilization since the coup d'etat of 1988 precludes the resumption of ODA.			
				3.PRINCIPAL SOURCE OF INFORMATION			
				①②			

和名 船舶修理ドックヤード

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

PROJECT SUMMARY (F/S)

ASO MYN/S 304/86

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT								
1.COUNTRY	Myanmar	1.SITE OR AREA	Vicinity of Prome City, approx.400km from Rangoon, the middle of the Irrawaddy River			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled							
2.NAME OF STUDY	Irrawaddy River Bridge Construction Project	2.PROJECT COST		Total Cost	Local Cost			Foreign Cost						
3.SECTOR	Transportation/General						(Description) Based on the trend projection of future growth in the surrounding areas to be serviced by the proposed bridge, the study concluded that the project would be low in economic feasibility. The Government of Japan formally notified the Myanmar Government in June 1987 that it would not consider the project funding for the time being, allowing a possibility of reconsideration in the future if and when the surrounding areas grow sufficiently to justify the project. (FY1991 Overseas Study) The Myanmar Government retains a continued interest in the project, but is unable to implement without external assistance. The growth of the surrounding areas still remains inadequate. Given the current political conditions, early resumption of external assistance appears unlikely. The president of the construction Corporation was appointed Minister of Construction in January 1992. He has been a strong supporter for the Japanese cooperation in the sphere of bridge construction, and if external assistance be resumed at a future date, the proposed project is likely to be included in the application list.							
4.REFERENCE NO.														
5.TYPE OF STUDY	F/S													
6.COUNTERPART AGENCY	Construction Corporation	3.CONTENTS OF MAJOR PROJECT(S)	The study analyzed two alternatives: 1) a road bridge and 2) a road and railway bridge, and recommended that a regional development plan be formulated for implementation to improve the feasibility of the project. The cost 1) is for the road bridge, and the cost 2) for is the road and railway bridge.											
7.OBJECTIVES OF STUDY	Economic analysis Planning of bridge construction													
8.DATE OF S/W	Jun.1985	Imp. Period:	.1987-.1992											
9.CONSULTANT(S)	Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: No	EIRR1) EIRR2) EIRR3)	2.00 FIRR1) FIRR2) FIRR3)									
10.STUDY TEAM	No.of Members 12 Period Nov.1985-Mar.1987(17 months)	Conditions and Development Impacts: The project is not feasible, under the prevailing conditions.												
	<table style="margin: auto;"> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> <tr> <td>62.09</td> <td>19.74</td> <td>42.35</td> </tr> </table>	Total M/M	Japan	Field	62.09	19.74		42.35						
Total M/M	Japan	Field												
62.09	19.74	42.35												
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey Geological survey	5.technical transfer	Traffic demand forecast											
12.EXPENDITURE	Total 206,045 (¥'000) Contracted 194,957					3.PRINCIPAL SOURCE OF INFORMATION	①②							

和名 イラワジ河橋梁建設計画

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

PROJECT SUMMARY (F/S)

ASO MYN/S 305/86

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	Myanmar	1.SITE OR AREA	Rangoon - Mandalay, Pegu-Martaban, Rangoon - Prome, Myohaung Junction - Minati			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input checked="" type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled						
2.NAME OF STUDY	Track, Telecommunication and Signalling Improvement Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost								
3.SECTOR	Transportation/Railway		(US\$1,000)	1) 163,000	57,000	(Description) After the completion of the study, the Myanmar Government considered the possibility of applying for yen credit, but the attempt was suspended because of the accumulated debt problems and political destabilization. (FY1991 Overseas Survey) No progress has been made since the coup d'etat in 1988. Priority of the proposed project remains high. However, the road conditions have been improved considerably since 1988, and it will be necessary to revise the framework of assumptions used in the JICA study, as well as updating the relevant data. As a result of administrative reorganization, the Ministry of Railways was newly created in January 1992, separating from the Ministry of Transport and Communications. The Myanmar Government retains strong commitment to railway improvement, as evidenced in their continued imports of rolling stock and rails under the extreme foreign exchange constraints. Upon resumption of external assistance, the proposed project (especially the section between Yanglo and Mandalay) would be given high priority for funding application.							
4.REFERENCE NO.			(US\$1=199Yen)	2) 106,000	3) 106,000								
5.TYPE OF STUDY	F/S	3.CONTENTS OF MAJOR PROJECT(S)	The master plan study on 4 lines. The feasibility study on Rangoon - Mandalay line, with following components: - Track improvement (800 km) - Signal improvement (4 stations, signal replacement, 20 crossings) - Telecommunication improvement (transmission 620 km, exchange and relay equipment) - Other related facilities.			(FY1991 Overseas Survey) No progress has been made since the coup d'etat in 1988. Priority of the proposed project remains high. However, the road conditions have been improved considerably since 1988, and it will be necessary to revise the framework of assumptions used in the JICA study, as well as updating the relevant data. As a result of administrative reorganization, the Ministry of Railways was newly created in January 1992, separating from the Ministry of Transport and Communications. The Myanmar Government retains strong commitment to railway improvement, as evidenced in their continued imports of rolling stock and rails under the extreme foreign exchange constraints. Upon resumption of external assistance, the proposed project (especially the section between Yanglo and Mandalay) would be given high priority for funding application.							
6.COUNTERPART AGENCY	Burma Railway Corporation	7.OBJECTIVES OF STUDY						Imp. Period: 1986-.2001 4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes EIRR1 10.70 FIRR1 2.80 EIRR2 EIRR3 FIRR2 FIRR3 Conditions and Development Impacts: Benefits: 1) Saving of the investment in rolling stock 2) Time saving of passengers 3) Saving of railway operating costs 4) Saving of road investment Impacts: 1) Restoration of the railway's role as a mass transport mode 2) Reduction of railway accidents 3) Saving of fuel costs 4) Reduction of manpower requirements					
8.DATE OF S/W	Aug.1985	9.CONSULTANT(S)	10.STUDY TEAM No.of Members 12 Period Jan.1986-Feb.1987 (14 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;">90.40</td> <td style="text-align: center;">53.34</td> <td style="text-align: center;">37.06</td> </tr> </table>			Total M/M	Japan				Field	90.40	53.34
Total M/M	Japan	Field											
90.40	53.34	37.06											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	12.EXPENDITURE	5.TECHNICAL TRANSFER Participation of a counterpart in JICA training program			3.PRINCIPAL SOURCE OF INFORMATION ①②							
		Total						Total 247,477 (¥'000) Contracted 242,970					

和名 幹線鉄道整備計画

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

PROJECT SUMMARY (F/S)

ASO NPL/S 301/83

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Nepal	1.SITE OR AREA	Whole country			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="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	Rural Telecommunications Network Project	2.PROJECT COST						Total Cost
		(US\$1,000)	1) 34,963		34,963			
		(US\$1=270Yen)	2)					
		3)						
3.SECTOR	Communications & Broadcasting/Telecommunication	3.CONTENTES OF MAJOR PROJECT(S)	Contents - Construction of the National Radio Telecommunications Network with 53 Radio Stations				(Description) The project was implemented with Japanese grant aid. Jun.1984 E/N of grant aid signed (154 million yen) Mar.1985 D/D completed Oct.1985 E/N of grant aid signed (4,376 million yen) (FY1991 Overseas Survey) No additional information.	
4.REFERENCE NO.								
5.TYPE OF STUDY	F/S							
6.COUNTERPART AGENCY	Nepal Telecommunicating Corporation (NTC)							
7.OBJECTIVES OF STUDY	To determine the technical and economic feasibilities of the project to improve the Rural Telecommunications							
8.DATE OF S/W	Sep.1982	Imp. Period:	Jan.1986-Mar.1989					
9.CONSULTANT(S)	Nippon Telecommunication Consulting Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1)	FIRR1)			
				EIRR2)	FIRR2)			
				EIRR3)	FIRR3)			
10.STUDY TEAM	No. of Members 13 Period Nov.1982-Oct.1983 (12 months)	Conditions and Development Impacts: The National Radio Telecommunications Network is to be constructed under the 6th national development plan (1980-85), in order to increase productivity and employment opportunity and to improve the economic infrastructure. The project may have impacts on not only communications but also on education, medical treatment, agriculture, and tourism.				2.MAJOR REASONS FOR PRESENT STATUS		
						- large impacts - high priority		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY						3.PRINCIPAL SOURCE OF INFORMATION		
12.EXPENDITURE		5.TECHNICAL TRANSFER				①②		
		OJT was conducted for the counterpart staff.						
	Total 81,960 (¥000)							
	Contracted 48,007							

和名 地方電気通信網整備計画

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

PROJECT SUMMARY (M/P+F/S)

ASO NPL/S 201A/87

Compiled Mar. 1990
Revised Mar. 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS																
1. COUNTRY	Nepal	1. SITE OR AREA	Kathmandu and east and west Terai		1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued															
2. NAME OF STUDY Development Plan of Television Network		2. PROJECT COST			(Description) Followed by F/S.																
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></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 style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">41,700</td> <td style="text-align: center;">5,900</td> <td style="text-align: center;">35,800</td> </tr> <tr> <td style="text-align: center;">(US\$1=130Yen)</td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> </table>							Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)	41,700	5,900	35,800	(US\$1=130Yen)	2)			
		Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	1)	41,700	5,900	35,800																	
(US\$1=130Yen)	2)																				
3. SECTOR Communications & Broadcasting/Broadcasting		3. CONTENTS OF MAJOR PROJECT(S) See next page																			
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS																			
5. TYPE OF STUDY M/P+ (F/S)		The proposed TV network will play an important role in the national development, by improving the level of education and literacy and vocational training.																			
6. COUNTERPART AGENCY Nepal Television Corporation																					
7. OBJECTIVES OF STUDY Formulation of a development plan of TV broadcasting network		5. TECHNICAL TRANSFER																			
8. DATE OF S/W Feb. 1987		1) OJT; 2) Participation of counterparts in JICA training program			2. MAJOR REASONS FOR PRESENT STATUS																
9. CONSULTANT(S) Integrated Technology Inc.																					
10. STUDY TEAM		3. PRINCIPAL SOURCE OF INFORMATION			①②																
No. of Members 24 Period Jun. 1987-Mar. 1988 (10 months)																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></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 colspan="2"></td> </tr> <tr> <td style="text-align: center;">33.68</td> <td style="text-align: center;">17.53</td> <td style="text-align: center;">16.15</td> <td colspan="2"></td> </tr> </table>							Total M/M	Japan	Field			33.68	17.53	16.15							
Total M/M	Japan	Field																			
33.68	17.53	16.15																			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Cross-cut topographic mapping																					
12. EXPENDITURE																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">128,937 (¥000)</td> <td colspan="3"></td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">99,420</td> <td colspan="3"></td> </tr> </table>							Total	128,937 (¥000)				Contracted	99,420								
Total	128,937 (¥000)																				
Contracted	99,420																				

和名 テレビジョン放送網開発計画

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

PROJECT SUMMARY (M/P+F/S)

ASO NPL/S 201B/87

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	Nepal	1.SITE OR AREA		Kathmandu and east and west Terai		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" 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 Development Plan of Television Network		2.PROJECT COST		Total Cost	Local Cost			Foreign Cost					
		(US\$1,000)	1) 41,700	2) 5,900	3) 35,800	(Description) The Government of Nepal (GON) requested a Japanese grant, but was notified by the Japanese Government that the project would not be funded immediately. The GON then requested a grant aid from France, which subsequently agreed to undertake an F/S on TV broadcasting network. The GON is expecting a Japanese aid on studio equipment. (FY1991 Overseas Survey) No additional information.							
3.SECTOR Communications & Broadcasting/Broadcasting		3.CONTENTS OF MAJOR PROJECT(S) TV Studio (Kathmandu) : 4 studios Broadcasting stations : 2 stations Relay stations : 16 stations Outdoor relay vans : 1 vehicle											
4.REFERENCE NO.		8.DATE OF S/W		Feb.1987		2.MAJOR REASONS FOR PRESENT STATUS The Nepalese side is very eager to implement the project, but the Japanese grant aid program for Nepal is already fully committed to the other projects for the next three years.							
5.TYPE OF STUDY	(M/P)+F/S	9.CONCONSULTANT(S)		Integrated Technology Inc.									
6.COUNTERPART AGENCY		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 18.60 EIRR2) -4.90 EIRR3)	3.PRINCIPAL SOURCE OF INFORMATION ①②							
7.OBJECTIVES OF STUDY		Imp. Period:		.1989-.1995									
		Conditions and Development Impacts: FIRR will be 18.6% if grant aid is used for investment, and -4.9% if a loan is used. Development impacts: - Speedy dissemination of information and strengthening of effective communication means - Improvement of school education - Improvement of agricultural extension services - Diffusion of family planning, health care and hygiene - Integration of different ethnic and cultural communities				10.STUDY TEAM No.of Members 24 Period Jun.1987-Mar.1988 (10 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;">33.68</td> <td style="text-align: center;">17.53</td> <td style="text-align: center;">16.15</td> </tr> </table>		Total M/M	Japan	Field	33.68	17.53	16.15
Total M/M	Japan	Field											
33.68	17.53	16.15											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer											
12.EXPENDITURE		Total		128,937 (¥'000)									
		Contracted		99,420									

和名 テレビジョン放送網開発計画

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

PROJECT SUMMARY (M/P+F/S)

ASO NPL/S 202B/89

Compiled Mar.1991
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Nepal	1.SITE OR AREA		Kathmandu, Pokhara, Jomsom, Simikot, Lukla, and Syangboche airports		1.PRESENT STATUS	<input 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 Development of Civil Aviation		2.PROJECT COST		Total Cost	Local Cost		
		(US\$1,000)	1)	246,300	55,600	190,700	
			2)				
			3)				
3.SECTOR Transportation/Air Transportation & Airport		3.CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1991 Overseas Survey) The Government of Nepal requested for Japanese financial assistance on several occasions, but has failed to elicit a favorable response. The Government plans to submit funding proposals to possible donor agencies. In response to the request of the Nepalese Government, JICA agreed to undertake studies (M/P, F/S and B/D) on the development of the Kathmandu Airport.	
4.REFERENCE NO.		1. Kathmandu International Airport Project:					
5.TYPE OF STUDY		a. Total floor area 3,200 sq.m. One and half level concept Annual passenger handling capacity 330 thousand					
6.COUNTERPART AGENCY		b. DC10 class x 2 spots, B767 class x 1 spot, and B757 class x 5 spots for international flight HS748 class x 2 spots and DHC6 class x 1 spot					
Department of Civil Aviation, Ministry of Tourism		c. Installation of LLZ/DME, renewal of DVOR/DME, Renewal of Aeronautical ground lights.					
7.OBJECTIVES OF STUDY		2. New Pokhara Airport Runway length 1,900m Apron(HS748 x 2 spots and DHC6 x 1 spot), Terminal building 800sq.m, Air navigation system VOR/DME, NDB etc.					
Examination of the feasibility on the priority plans.		3. Runway extension at Jomsom and Simikot Airports Runway pavement and apron expansion at Lukla Airport, and Runway relocation at Syangboche Airport.					
8.DATE OF S/W	Feb.1988	Imp. Period:		.1989-.1994	.1990-.1994	.1990-.1993	
9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) 19.70 EIRR2) 2.10 EIRR3)	FIRR1) 3.00 FIRR2) FIRR3)	
Pacific Consultants International		Conditions and Development Impacts: Conditions: Financial assistance from foreign country; Land acquisition for New Pokhara Airport					
10.STUDY TEAM		Development Impacts: - Improvement of the functions and capacity of the existing airport facilities - Improvement of safety and punctuality of aircraft operations - Contribution to the public welfare in remote areas - Promotion tourism				2.MAJOR REASONS FOR PRESENT STATUS	
No.of Members 8 Period Aug.1988-Sep.1989 (14 months)		Conditions for EIRR calculation: Evaluation period: 25 years Life time of investment: 40 years Standard conversion factor: 0.88 Exchange rate: US\$1.00= NRs25.0					
Total M/M		Japan		Field			
50.14		31.49		18.65			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Note: EIRR for Jomsom, Lukla, Simikot and Syangboche are 13.1% , 19.0% , 9.6% and 5.0% respectively.					
12.EXPENDITURE		5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION	
Total 167,332 (¥'000)		Counterpart training from Aug. to Oct.1989 which consists of lectures on airport plannings, discussion on the study, and inspection of the airport in Japan					
Contracted 155,142						①②	

和名 国内航空網整備計画

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

PROJECT SUMMARY (M/P)

ASO NPL/S 102/90

Compiled Mar.1992
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS													
1.COUNTRY	Nepal	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;">1) 106,491</td> <td style="text-align: center;">29,717</td> <td style="text-align: center;">76,774</td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td></td> <td></td> </tr> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 106,491	29,717	76,774		2)			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
	Total Cost	Local Cost			Foreign Cost													
(US\$1,000)	1) 106,491	29,717	76,774															
	2)																	
2.NAME OF STUDY Groundwater Management Project in the Kathmandu Valley		2.PROJECT COST			(Description) The basic design study on the construction of two new treatment plants (at Mahankal Chaur and Bansbari) was conducted in 1991 as part of the Japanese grant aid program. (FY1992 Overseas Suuvey) Conducted under Groundwater Management Project, the implementation of the Mahankal Chaur Project has already been started under Japanese Government grant aid and an action is being taken to start the Bansbari/Maharajgunj Project in the fiscal year of 1993.													
3.SECTOR Social Infrastructures/Water Resource Development		3.CONTENTES OF MAJOR PROJECT(S)																
4.REFERENCE NO.		As the result of comparative examination for many available implementation plans, the following implementation order is recommended: 1. Mahankal Chaur 2. Bansbari/Maharajgunj 3. Shainbhu 4. Balaju 5. Lambagar 6. Sundarijal 7. Manohara 8. Balkhu																
5.TYPE OF STUDY																		
6.COUNTERPART AGENCY Nepal Water Supply Corporation (NWSC)																		
7.OBJECTIVES OF STUDY To evaluate the groundwater and other water resources for domestic use. To prepare optimum management of water resources.																		
8.DATE OF S/W																		
9.CONSULTANT(S) Nihon Koel Co., Ltd. Japan Engineering Consultants Co., Ltd.																		
10.STUDY TEAM																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Topographic survey; Geological borings; Waterwell drillings; Installation of water level gauges and rainfall gauges																		
12.EXPENDITURE		4.CONDITIONS AND DEVELOPMENT IMPACTS																
<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;">95.54</td> <td style="text-align: center;">44.41</td> <td style="text-align: center;">51.13</td> </tr> </table>		Total M/M	Japan	Field	95.54	44.41	51.13	Condition: -The additional water resources from outside of the valley will become available after the year 2001. -Abstraction of groundwater will be reduced from the current production amount, and the level of the groundwater shall not be allowed to be lower than the yield computed by simulation. -The available capacity of the surface water will have a high level of monthly variation so the water supply facilities to be established shall be coordinated with the planned monthly water supply. -The groundwater shall, without exception, be treated with bio-filters to remove ammonia and iron. Development Impacts: -The development plan for water resources to meet future water demand by constructing new facilities to supply safe and potable water.			2.MAJOR REASONS FOR PRESENT STATUS							
		Total M/M	Japan	Field														
95.54	44.41	51.13																
5. TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION															
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total</td> <td style="width: 15%; text-align: center;">359,969 (¥'000)</td> </tr> <tr> <td></td> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">344,544</td> </tr> </table>			Total	359,969 (¥'000)		Contracted	344,544	Technical transfer was performed by the study team through field works such as field reconnaissance, purification experiment and water quality analysis.			①②							
	Total	359,969 (¥'000)																
	Contracted	344,544																

和名 カトマンズ盆地地下水開発計画

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

JICA