

PROJECT SUMMARY (F/S)

ASE MYS/S 313/87

Compiled Mar.1990
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Malaysia	1.SITE OR AREA	Penang Municipality			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Computerised Area Traffic Control System in Penang	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost		
3.SECTOR	Transportation/Urban Transportaion		(US\$1,000)	1)	106,553	(Description) (FY1992 Overseas Survey) The first phase of the project consisting of 16 junctions has been already implemented with some changes at the cost of RM 2.3 million. Although CCTV was recommended for all 16 junctions by the JICA study, it was installed only at two junctions (Dato Karamat and KOMTAR). Phases 2 and 3 which would equip another 37 junctions throughout Georgetown cannot proceed because of financial constraints. However, the Penang Island Municipal Council (MPPP) is unlikely to implement the remaining phases without another feasibility study, in view of the new highways currently under construction (i.e. the Coastal Road and the Outer Ring Road), among others. The traffic situation will become more complex with the linking up of the North-South Highway (from Sungai Petani to Perai, and from Perai to Taiping), and additionally the linking up of the East-West Highway in the not too distant future. The MPPP feels it necessary to wait for the completion of the major road works before initiating a new study over traffic patterns. (FY1993 Overseas Survey) No additional information.	
4.REFERENCE NO.			2)	19,741			
5.TYPE OF STUDY	F/S	3.CONTENTES OF MAJOR PROJECT(S)	3)				
6.COUNTERPART AGENCY	Economic Planning Unit, and Engineering Dept. of the Municipal Council of Penang Island (MPPP)	Preparation of traffic system management plan and expansion plan of area traffic control system in greater George Town Area for the year 2000.					
7.OBJECTIVES OF STUDY	Formulation of a plan to improve the urban traffic control in Penang and design of the area traffic control system	The traffic system management plan includes - Construction and improvement of road 25.1 km - Bus transport system improvement - Introduction of new buses 140 vehicles - Improvement of pedestrian way 10.8 km - Construction of parking buildings 4 locations The ATC system expansion plan includes - Traffic signal system 149 sets - CCTV camera 16 locations - Signboard 7 locations					
8.DATE OF S/W	Feb.1986	Imp. Period:	Jan.1986-Dec.2000				
9.CONULTANT(S)	Fukuyama Consultants International, Inc. Central Consultant, Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 22.70 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)			
10.STUDY TEAM	No.of Members 8 Period Jul.1986-Jan.1988 (19 months) Total M/M Japan Field 43.87 2.40 41.47	Conditions and Development Impacts: [Conditions] - Project life of 15 years(1986-2000) - The traffic signal system will be introduced in 4 phases, namely Phase I to Phase IV [Development impacts] The development impacts are expected to be as follows: - Alleviation of traffic congestions - Improvement of monitoring over mal-functioning equipment - Provision of better resposns to emwrqency vehicles - Improvement of travel speed - Increasing traffic volume at signalized intersections - Reduction of traffic noise and air pollution					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					(FY 1993 Domestic Survye)		
12.EXPENDITURE	Total 164,764 (¥000) Contracted 155,803	5.technical transfer	Training of the counterparts in Japan (JICA program) Joint undertaking of the study				
					2.MAJOR REASONS FOR PRESENT STATUS		
					Financial constraints made it necessary to delay the implementation of the later phases. In addition, it is considered prudent to postpone the implementation, because compe changes in traffic patterns are expected from the constructin of the major roads and other linkups, requiring another feasibility study.		
					3.PRINCIPAL SOURCE OF INFORMATION		
					①②		

和名 ペナン市都市交通コンピューター制御システム

(F/S,D/D)

PROJECT SUMMARY (F/S)

ASE MYS/A 302/87

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Malaysia	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY		Coastal area in northwest of Selangor (Area: 20,000ha, Farm household 19,500)						
Tanjong Karang Irrigation Development Management Project		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost		
		(US\$1,000)	1)	10,384	10,384			
		(US\$1 = M\$2.6)	2)					
			3)					
3.SECTOR		3.CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1992 Overseas Survey) The detailed design study was undertaken by the Drainage and Irrigation Dept. (DID) during 1986-1992. The recommendations of the JICA study was utilized except for some minor modifications. The Malaysian Government allocated RM 4,848 million, and the construction began in Oct 1986 and is scheduled to end in Jan.1995. Notes: 1. The two automatic upstream water level control structures had been constructed in the main canal at Sungai Leman and Sungai Haji Deraini as recommended by the JICA study, but they do not function as designed, either owing to the design itself or to insufficient water supply. At the moment, they are operated manually. 2. To date, 60 - 70% of the water supply problems in Kuala Selangor have been solved. Water shortfalls only occur during the drought, affecting farmers whose lands are located at the far end of the main canal.		
Agriculture/General		1. Irrigation area: 18,980ha						
4.REFERENCE NO.		2. Rehabilitation/Improvement of the existing irrigation system						
5.TYPE OF STUDY		F/S						
6.COUNTERPART AGENCY		(1) Berunam head race: Heightening of regulation gate, electrical operation of gate, etc. (2) Main canal: Widening of canal section, construction of water control facilities, etc. (3) Secondary canal: Construction and heightening works. (4) Distribution Canal: Concrete lining of canal, rehabilitation of check gates and weir (5) Farm road: Extension of farm road network (457 km)						
7.OBJECTIVES OF STUDY		3. Procurement of O/M Apparatus						
The objectives of the study are to identify waterrelated problems faced in Tnjong Karang Irrigator Scheme, and to recommend solutions to these problems to stabilize and sustain rice production								
8.DATE OF S/W		Imp. Period: .1987-.1990						
9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) EIRR2) EIRR3)			FIRR1) FIRR2) FIRR3)
Nippon Koei Co., Ltd. Kyowa Engineering Consultants Co., Ltd.		Conditions and Development Impacts: Conditions: The following recommendations need be implemented to ensure full benefits from the project. 1) Improvement of facilities 2) Procurement of maintenance equipment 3) Institutional development 4) Establishment of a monitoring system 5) Water management pilot project 6) Training program and follow-up program Development Impacts: 1) Double cropping of paddy 2) Cropping intensity will rise from 1.77 to 2.0. 3) Increase of the average yield from 6.3 tons/ha to 9.1 tons/ha 4) Annual paddy production will increase from 99,600 tons to 167,000 tons. * IRRs are not calculated.						
10.STUDY TEAM								
No.of Members 11								
Period May.1986-Jun.1987(14 months)								
Total M/M		Japan	Field					
80.37		32.80	47.57					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY								
		5. TECHNICAL TRANSFER						
12.EXPENDITURE		1. Invite 2 C/P						
Total		2. OJT						
221,818 (¥'000)								
Contracted								
142,972								
						2.MAJOR REASONS FOR PRESENT STATUS		
						(FY1992 Overseas Survey) 1. Socio-economic impact (reduction of rural poverty) 2. The National Agricultural Policy emphasizes the use of suitable land for intensive paddy production.		
						3.PRINCIPAL SOURCE OF INFORMATION		
						①②		

和名 タンジョンカラシ灌溉計画

(F/S,D/D)

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)		
2.NAME OF STUDY	Flood Mitigation of the Klang River Basin	2.PROJECT COST (US\$1,000)	M/P 1) 238,000 2) Local Cost	Foreign Cost	15,397
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTS OF MAJOR PROJECT(S)	<p><M/P> Implementation of the master plan is divided into three phases, with a total period of fifteen years.</p> <p>(1) Phase 1 (Urgent Project) River improvement of the main river and tributaries for 10.4km length, construction of retention pond with capacity of 2.7 million m³, construction of diversion channel of 3.25 km in length and drainage facilities in low-lying area of the city (Pumping station Q=2m³, underground retention pond with 32,700 m³ capacity)</p> <p>(2) Phase 2 (Mid-term plan) River improvement of downstream stretch of Klang River for 55.2km. Flood protection level after completion of these works will become about a 30-year return period for mid-stream stretch and 100-year for downstream stretch.</p> <p>(3) Phase 3(Long term plan) River improvement works for Klang, Batu and Gombak rivers for total length of 60.1km. Flood protection level will become 100-year return period for whole stretch of the Project area.</p> <p><F/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).</p> <p>(2) Diversion Channel: Construction of diversion channel connecting Gombak River with retention pond near Batu River(L=3.25km Design discharge 60 m³/s)</p> <p>(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.</p> <p>(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.</p> <p>Imp. Period: .1993-.1997</p>		
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 15.70 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)
5.TYPE OF STUDY	M/P+F/S	10.STUDY TEAM	<p>Conditions and Development Impacts:</p> <p><M/P><Conditions></p> <p>1) The land use pattern projected of the year 2005. 2) Benefits will accrue in the 5th year and on. 3) Opportunity cost of 13%. 4) Project life of 50 years. 5) IRR of 19.5%; B/C ratio of 1.66; NPV of US\$75.6 million</p> <p><Impacts><M/P,F/S> Approximately 100 sq.km will be protected from 100-year probable floods and the available land will be used for productive activities. The retention pond will be used for multi-purpose such as recreational park.</p> <p><F/S></p> <p>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</p>		
6.COUNTERPART AGENCY	Economic Planning Unit (Prime Min. Dept.) Drainage and Irrigation Detp. (DID)	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>topographic survey installation of water meters</p>		
7.OBJECTIVES OF STUDY	Flood control	12.EXPENDITURE	<p>1) OJT for the counterparts 2) Training of 2 counterparts in Japan (JICA program) 3) A seminar</p>		
8.DATE OF S/W	Mar.1987	Total	272,978 (¥'000)		<p>1.PRESENT STATUS</p> <p><input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled</p> <p>(Description) (FY1992 Overseas Survey) <M/P> The structural measures of flood mitigation proposed in the Master Plan were accepted by the DID's Dept. of Flood Mitigation and many were integrated in the 6th Malaysia Plan. Some of the non-structural measures have also been accepted.</p> <p><F/S> Most of the recommendations in the JICA Study are being implemented in stages with emphasis on the priority areas with frequent flooding.</p> <p>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.</p> <p>2. The proposed channel improvement for the Klang, Gombak and Batu Rivers is under inhouse implementation in stages by the DID.</p> <p>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.</p>
9.CONSULTANT(S)	Pacific Consultants International Nippon Koei Co., Ltd.	Contracted	264,888		
		2.MAJOR REASONS FOR PRESENT STATUS		<p>(FY1992 Overseas Survey) Urgent needs to alleviate the flooding problems that presently affect the low-lying areas in the Klang Valley.</p>	
		3.PRINCIPAL SOURCE OF INFORMATION		①②	

和名 クラン川流域治水計画

(M/P+F/S)

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				1.PRESENT STATUS	
2.NAME OF STUDY	National Tourism Development Plan	International beach resort area in Desal Area in the southeastern part of Malay Peninsula					
3.SECTOR	Tourism/(Tourism in)General	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1)	453,400	453,400		
5.TYPE OF STUDY	F/S		2)				
6.COUNTERPART AGENCY	Ministry of Culture Arts and Tourism Tourism Promotion Corporation		3)				
7.OBJECTIVES OF STUDY	Formulation of a medium-term tourism development plan	3.CONTENT(S) OF MAJOR PROJECT(S)				(Description)	
8.DATE OF S/W	Nov.1986	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					
9.CONSULTANT(S)	Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 18.80 EIRR2) EIRR3)	FIRR1) 16.10 FIRR2) 20.70 FIRR3) 19.30	
10.STUDY TEAM	No.of Members 20 Period Mar.1987-Feb.1989(24 months)	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.				2.MAJOR REASONS FOR PRESENT STATUS	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Marine resource survey						
12.EXPENDITURE	Total 295,306 (¥'000) Contracted 283,884	5.technical transfer		On-the-job training			
						3.PRINCIPAL SOURCE OF INFORMATION	
						①②	

和名 地域総合開発計画

{F/S,D/D}

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 209B/89

Compiled Mar.1991
Revised Mar.1994

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			
2.NAME OF STUDY		Pulau Pinang and Seberang Perai Area 1030sq.km ,population 1,090,600 persons							
Solid Waste Management for Pulau Pinang and Seberang Perai Municipalities		2.PROJECT COST (US\$1,000)		M/P 1) 42,240 Local Cost 2) 9,730	F/S 1) 42,240 Foreign Cost 2) 9,730 3)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>■ Completed or in Progress □ Promoting</p> <p>○ Completed</p> <p>● Partially Completed □ Delayed or Suspended</p> <p>○ Implementing</p> <p>○ Processing □ Discontinued or Cancelled</p> </div> <div style="width: 50%;"> <p>(Description)</p> <p>(FY1992 Overseas Survey) Only a few of the recommendations made in the JICA Study have been adopted.</p> <p>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.</p> <p>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.</p> <p>Special note: The authorities responsible for the project implementation answered that the JICA proposals were discontinued.</p> <p>(FY1993 Overseas Survey) No additional information.</p> </div> </div>			
3.SECTOR		3.CONTENTIS OF MAJOR PROJECT(S)							
Public Utilities/Urban Sanitation		<p><M/P> (~2005)</p> <p>Phase I: Introduction of large-size collection vehicles, more frequent collection, concession to private collectors/review of street sweeping/semisanitary disposal, 1st stage construction of final disposal site</p> <p>Phase II: Partial introduction of stationnal collection system/ sanitary disposal, 2nd stage construction of final disposal site</p> <p>Phase III: Full operation of stationnal collection system/2nd stage construction of final disposal site</p> <p><F/S> 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)</p> <p>2. Implementation of sanitary landfill (Establishment of final disposal sites for sanitary landfill with drainage circulation system)</p> <p>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</p> <p>4. To secure budget for sanitation project (1) To secure tax income from the property tax (2) Review of service change</p>							
4.REFERENCE NO.		Imp. Period: .1991-.1995							
5.TYPE OF STUDY		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)				
6.COUNTERPART AGENCY		Conditions and Development Impacts: Planning Conditions: 1) Stronger financial basis of solid waste management by reviewing the assessment tax rates and introducing collection service charge 2) Grants or low-interest loans by the central government 3) Loan conditions are: for long-term, 3-year grace period, 20-year repayment period, 7% rate; for medium-term, 2 years, 10 years, 9%; for short-term, repayed next year, 13.5% Development Impacts: 1) Sizable reduction in operation costs 2) Minimized negative impact on the environment of the landfill 3) Stronger financial base with service charge 4) Estimates of cost reduction by 2005: M\$ 95.3 million for Pinang City, M\$ 16.5 million for seberang city						2.MAJOR REASONS FOR PRESENT STATUS	
Local Government Division of Ministry of Housing and Local Government, Health Service Dept. of Pulau Pinang and Seberang Perai Municipalities									
7.OBJECTIVES OF STUDY								(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.	
Planning solid waste Management of the Municipalities									
8.DATE OF S/W		5. TECHNICAL TRANSFER						3.PRINCIPAL SOURCE OF INFORMATION	
Oct.1987		Training of counterpart 4 persons Seminar and workshop 1 week							
9.CONSULTANT(S)						①②			
Yachiyo Engineering Co., Ltd. Kokusai Kougyo Co., Ltd.									
10.STUDY TEAM									
No.of Members 13 Period Jan.1988-Aug.1989(20 months)									
Total M/M Japan Field									
84.30 32.10 52.20									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY									
Land Use Survey Study of Policy and Budget system in Malaysia Topographic Survey									
12.EXPENDITURE									
Total 267,199 (¥'000)									
Contracted 235,971									

和名 ペナン廃棄物処理計画

(M/P+F/S)

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 208B/89

Compiled Mar.1991
Revised Mar.1994

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 checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY		2.PROJECT COST (US\$1,000)						M/P 1) 2)	Local Cost	Foreign Cost	
Kelantan River Basin-Wide Flood Mitigation				F/S 1) 2) 3)	482,220	324,810	157,410				
3.SECTOR		3.CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1992 Overseas Survey) <M/P> Suggestions of this study were utilized for Feasibility studies that were planned to carry out in the 6th Malaysia Plan (1993-1995). <F/S> 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. 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). (FY1993 Overseas Survey) No additional information.					
Social Infrastructures/River & Erosion Control		<M/P> 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. <F/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									
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 formulate a basin-wide flood mitigation plan for Kelantan river basin To perform pre-feasibility study for major structures selected in the basin-wide flood mitigation plan			
8.DATE OF S/W								Nov.1987			
9.CONSULTANT(S)								Nippon Koei Co., Ltd.			
								Imp. Period: .1993-.2010			
								4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No EIRR1) 2.20 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)	
10.STUDY TEAM						Conditions and Development Impacts:					
No.of Members 14		1.Conditions<M/P,F/S> 1) For Lebir dam -Relocation of 200 houses -Land acquisition for plantation of 9,000ha -Compensation for forest of 5,000ha 2) For Kemubu dam -Relocation of 1,000 houses -Land acquisition for plantation of 500ha -Compensation for forest of 800ha -Relocation of 26km long existing railway 2.Development Impacts<M/P,F/S> -Increase in irrigation water in dry season -Creation of employment opportunity -Enhancement of land use -Increase in agricultural crop productivity									
Period Mar.1988-Nov.1989 (20 months)											
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Total M/M</td> <td style="width: 30%;">Japan</td> <td style="width: 30%;">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											
12.EXPENDITURE		5.TECHNICAL TRANSFER									
Total 475,807 (¥'000)		Technical knowledge was transferred to counterpart in each field through analysis, planning and designing during the field works.									
Contracted 247,426											
		2.MAJOR REASONS FOR PRESENT STATUS									
		(FY1992 Overseas Survey) Urgent needs to alleviate the flooding problems in the Kelantan River basin area.									
		3.PRINCIPAL SOURCE OF INFORMATION									
		①②									

和名 クラントン川流域治水計画

(M/P+F/S)

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		926km expressways and highways under the Malaysia Highway Authority in Peninsular Malaysia		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		2.PROJECT COST		Total Cost	Local Cost		
Traffic Control and Management System of Malaysian Expressways and Toll Highways		(US\$1,000)		1) 139,540			
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)		1) 2) 3)		(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.	
Transportation/Fish Processing		1. Construction of a traffic control and management system for the Malaysian expressways with the length of 915km which is under construction.		a. emergency telephones b. vehicle detectors c. weather forecasting facilities d. CCTV cameras			
4.REFERENCE NO.		2) Information analyzing system		a. traffic control center b. sub-centers			
5.TYPE OF STUDY		3) Information dissemination		a. changeable message boards b. changeable speed limit signs c. highway radio			
6.COUNTERPART AGENCY		2. Establishment of the organization for traffic control					
Malaysia Highway Authority (MHA)							
7.OBJECTIVES OF STUDY							
-Formulate Short and Long Term Expressway Traffic Control and Management System Plans -Prepare an Operation Manual							
8.DATE OF S/W		Imp. Period:		.1990-.1995	.1990-.1995		.1990-.2005
Jul.1988		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) EIRR2) EIRR3)		FIRR1) FIRR2) FIRR3)
9.CONSULTANT(S)		Fukuyama Consultants International, Inc.		Conditions and Development Impacts: 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			
10.STUDY TEAM							
No.of Members 9 Period Nov.1988-Nov.1989(12 months)							
Total M/M Japan Field							
44.90 6.00 38.90							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION			
Data collection and preparation of route base maps by local consultants		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.		①②			
12.EXPENDITURE							
Total 188,346 (¥'000)							
Contracted 174,020							

和名 高速道路交通管理計画

(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"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY Transportation Facilities Projects in Klang Valley		2.PROJECT COST		Total Cost	Local Cost		
		(US\$1,000)	1)	382,250			
			2)	43,070			
			3)	11,410			
3.SECTOR Transportation/Urban Transportaion		3.CONTENTES OF MAJOR PROJECT(S)				(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.		Highway Project:					
5.TYPE OF STUDY		- Shah Alam Highway Project (47.7km) Budget EIRR FIRR					
6.COUNTERPART AGENCY		- N-S Expressway Link (33.7km) 249,440 25.7 -					
7.OBJECTIVES OF STUDY		- Petaling Jaya ATC System 132,810 28.5 -					
8.DATE OF S/W		Traffic Control System Project:					
9.CONULTANT(S)		- Kuala Lumpur ATC System 22,260 69.1 -					
10.STUDY TEAM		- Petaling Jaya ATC System 5,110 84.6 -					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		- Highway Traffic Surveillance System 15,700 - -					
12.EXPENDITURE		Freight Terminal Project:					
		- KL North Terminal 4,120 32 14.5					
		- KL South Terminal 3,410 22 13.7					
		- Klang Terminal 3,880 22 14.9					
8.DATE OF S/W		Mar.1987		Imp. Period: .1991-.1999			
9.CONULTANT(S)		Fukuyama Consultants International, Inc. Pacific Consultants International		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	
10.STUDY TEAM		No.of Members 18 Period .1987-Jul.1989(18 months)		EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Topographic Survey		5.5 TECHNICAL TRANSFER		2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE		Total 431,735 (¥000) Contracted 420,480		1.On-the-job-training 2.Holding Symposium 3.Counterpart training in Japan		Privatized components are being implemented, because of the increasing demand for physical distribution (Freight Terminal Project), or of the state policy to provide better traffic mobility between major growth areas (Highway Project). The Government contribution to the project implementation was seriously constrained by the shortage of funds.	
						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,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			
2.NAME OF STUDY	Fish Marketing and Distribution System	Entire country			
		2.PROJECT COST			
		(US\$1,000)	Total Cost	Local Cost	Foreign Cost
3.SECTOR	Fisheries/General		1)		
			2)		
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued (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) or 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 1993.	
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			
7.OBJECTIVES OF STUDY	To provide alternative plans for an efficient marketing and distribution system at the national and regional level.	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			
8.DATE OF S/W	Jul.1989	3. Quality control: to reinforce low temperature control of fish before landing			
9.CONSULTANT(S)	System Science Consultants	4. Marketing structure: to strengthen wholesale market functions of the LKIM complex			
10.STUDY TEAM	No.of Members 9 Period Nov.1989-Mar.1991(17 months)	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.)			
	Total M/M Japan Field	4.CONDITIONS AND DEVELOPMENT IMPACTS			
	64.32 28.62 35.70	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.			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	1. Fish marketing and consumption study 2. Fish quality inspection	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.			
12.EXPENDITURE	Total 217,875 (¥'000) Contracted 209,606	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.			
		5.TECHNICAL TRANSFER		2.MAJOR REASONS FOR PRESENT STATUS (FY1992 Overseas Survey) 1. Socio-economic impacts to fishermen and the fishing industry 2. Infrastructure needs of the present fishing industry	
		1. Counterpart training in Japan was implemented in 1990. 2. Technology transfer was conducted through field survey and seminar.			
				3.PRINCIPAL SOURCE OF INFORMATION ①②	

和名 水産物流通システム総合計画

{M/P, 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	Penang Island<M/P> Georgetown, Penang River, Keluang River<F/S>																											
2.NAME OF STUDY	Flood Mitigation and Drainage in Penang Island	2.PROJECT COST (US\$1,000)				<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">M/P 1)</td> <td style="width: 15%;">102,235</td> <td style="width: 15%;">Local Cost</td> <td style="width: 15%;">Foreign Cost</td> <td style="width: 15%;"></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>F/S 1)</td> <td>79,120</td> <td></td> <td>56,926</td> <td>22,194</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	M/P 1)	102,235	Local Cost	Foreign Cost		2)					F/S 1)	79,120		56,926	22,194	2)					3)			
M/P 1)	102,235	Local Cost	Foreign Cost																											
2)																														
F/S 1)	79,120		56,926	22,194																										
2)																														
3)																														
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTES 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.																											
4.REFERENCE NO.		<M/P>																												
5.TYPE OF STUDY	M/P+F/S	The Master Plan of river improvement is divided into three phases of implementation, totalling twenty years.																												
6.COUNTERPART AGENCY	Drainage and Irrigation Department, Ministry of Agriculture	1) Phase 1(Urgent Project) River improvement of Pinang, Keluang, Gelugor 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.																												
7.OBJECTIVES OF STUDY	-Flood Mitigation for 25 rivers in Penang Island -Drainage in Georgetown	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.																												
8.DATE OF S/W	.1989	<F/S>																												
9.CONSULTANT(S)	Pacific Consultants International Nippon Koei Co., Ltd.	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)																												
10.STUDY TEAM	No.of Members 13 Period Jun.1990-Mar.1991(10 months)	Imp. Period: .1991-.1995																												
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<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>44.17</td> <td>16.17</td> <td>28.00</td> </tr> </table>	Total M/M				Japan	Field	44.17	16.17	28.00	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">4.FEASIBILITY AND ITS ASSUMPTIONS</td> <td style="width: 15%;">Feasibility: Yes/No</td> <td style="width: 15%;">EIRR1)</td> <td style="width: 15%;">FIRR1)</td> </tr> <tr> <td></td> <td></td> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </table>	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1)	FIRR1)			EIRR2)	FIRR2)			EIRR3)	FIRR3)							
Total M/M	Japan	Field																												
44.17	16.17	28.00																												
4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1)	FIRR1)																											
		EIRR2)	FIRR2)																											
		EIRR3)	FIRR3)																											
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">343,426 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>167,604</td> </tr> </table>	Total	343,426 (¥000)	Contracted	167,604	Conditions and Development Impacts: <M/P>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. <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/ B/C 15.1%/1.9(Pinang river), 14.6%/2.15(Keluang river) below 9.0%(other rivers) <F/S>Development Impacts: 1. Upgrading of land use value by mitigating the flood damages. 2. Improvement of environment. Benefits: Area: 23 sq.km ; Population: 258000																								
Total	343,426 (¥000)																													
Contracted	167,604																													
		5. TECHNICAL TRANSFER	2.MAJOR REASONS FOR PRESENT STATUS																											
		<M/P>1. To accept a trainee. 2. Provision and instruction for instruments. 3. Cooperated works in collection and analysis of information. <F/S>1. To accept two trainees 2. Workshop training 3. Seminar	(FY1992 Overseas Survey) The principal reason is the need to reduce flooding problems that affect the local population.																											
			3.PRINCIPAL SOURCE OF INFORMATION																											
			①②																											

和名 ペナン島洪水緩和排水計画

(M/P+F/S)

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 checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY Rationalization and Crop Diversification in Non-granary Irrigated Areas		924 non-granary irrigated schemes<M/P> 12 non-irrigated schemes selected in P.Pinang,Neqri Sembilan and Kelantan States<F/S>					
3.SECTOR Agriculture/General		2.PROJECT COST (US\$1,000)		Local 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, Rasek in Kelantan and Mamong in Neqri 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.	
4.REFERENCE NO.		M/P 1) 2) 3)		Foreign Cost			
5.TYPE OF STUDY		M/P+F/S		3.CONTENTS OF MAJOR PROJECT(S)		<M/P> 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. 2.The crop diversification potential of each non-granary irrigation scheme was evaluated by category selecting 1st-4th priorities. 3. Non-granary irrigation schemes with 1st priority are as follows: (1)Schemes to be converted to high value crop cultivation.144 (2)Schemes to be converted to tree crop cultivation .334 (3) Schemes with double-cropping system (paddy during the main season and short-term annual crops during the off-season) .46 (4)Schemes to be maintained for paddy cultivation (minigranary area)..74 (5)Schemes to be maintained for paddy cultivation for a while..172 (6) Schemes to be converted to housing/industrial and other uses .154 <F/S>1. Kulim area (3,223ha) (1) A stepwise procedure to introduce crop diversification was proposed as follows:1st stage: Introduction of non-paddy crops during the off-season. Final stage:upland crop cultivation (300% cropping intensity) (2) Upgrading of infrastructures - On-farm development of 1,474 ha - Rehabilitation of the pump station,secondary canals,Jarac link canal -Construction of 3 tidal gates,Jalak river bond 2.Mampong area(517ha) (1) Present paddy fields will be converted to permanent crop fields (2)Upgrading of infrastructures Feeder drains (11,500m),farm roads(4,600m) and 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 irrigation and drainage canals - 100 m/ha of farm roads	
6.COUNTERPART AGENCY Economic Planning Unit (EPU), Prime Minister's Department Drainage and Irrigation Dept.		7.OBJECTIVES OF STUDY Inventory resource survey of all non-granary irrigated schemes<M/P> Formulation of Crop Diversification Plan<F/S>		8.DATE OF S/W Jul.1988			
10.STUDY TEAM		4.FEASIBILITY AND ITS ASSUMPTIONS		Imp. Period:		2.MAJOR REASONS FOR PRESENT STATUS (FY1992 Overseas Survey) The pace of project implementation is slow, owing to the shortage of government fund. The progress of rationalization and diversification projects will depend on the positive response of the farmers concerned, the availability of good infrastructural facilities and farm management and marketing skills, and the establishment of detailed implementation strategies.	
No.of Members 20 Period Feb.1989-Oct.1990(20 months)		Feasibility: Yes		EIRR1) FIRR1) 27.20 EIRR2) FIRR2) 12.50 EIRR3) FIRR3) 22.90			
Total M/M Japan Field 70.73 30.17 40.56		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Detailed farmers' intention survey done by local consultant		5.TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION ①②	
12.EXPENDITURE		Total 231,375 (Y'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.			

和名 非穀倉灌溉地区合理化・作付多様化計画

(M/P+F/S)

PROJECT SUMMARY (F/S)

ASE MYS/S 317/90

Compiled Mar.1992
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Malaysia	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Rail-Based Commuter Services in Klang Valley	In and around Kuala Lumpur City and in the Klang Valley Region, Malaysia (Rawang - Kuala Lumpur - Seremban, about 106km)					
3.SECTOR	Transportation/Railway	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1)	228,461	58,158	170,303	
5.TYPE OF STUDY	F/S	US\$1=2.6949MS	2)				
6.COUNTERPART AGENCY	Economic Planning Unit (EPU)		3)				
7.OBJECTIVES OF STUDY	F/S on a project for introducing a rail-based commuter service to the Klang Valley Region	3.CONTENTS OF MAJOR PROJECT(S)				(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 private investment for the downtown people movers project. 3. The OECF loan (19,444 million yen) covers (1) double tracking from KL to Klang Port (43km), from KL to Sentul (2km) and the branch line to Subang Airport (7km), (2) double tracking from Rawang to Seremban (105km), (3) signalling and telecommunication systems of the above, and (4) 18 sets of diesel railcars. (FY1993 Overseas Survey) The project has not been completed yet.	
8.DATE OF S/W	May.1989	Imp. Period: 1993-2005					
9.CONSULTANT(S)	Japan Railway Technical Service Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) EIRR2) EIRR3)	28.81	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM	No.of Members 11 Period Jan.1990-Feb.1991 (12 months)	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 (MS\$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					
	Total M/M					Japan	Field
	64.44	31.97	32.47				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE	Total 214,295 (¥'000) Contracted 206,389	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,D/D}

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		Rajang Port Area and its surroundings, Sarawak State, Malaysia		1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled		
2. NAME OF STUDY		2. PROJECT COST (US\$1,000)						M/P 1) 128,879 Local Cost 2) F/S 1) 51,772 34,505 17,267 2) 3)	
3. SECTOR		3. CONTENTS OF MAJOR PROJECT(S)		(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 Tanjung Manis.					
4. REFERENCE NO.		<M/P> (through 2010)							
5. TYPE OF STUDY		(1) Timber Products Terminal Wharves -10m 750m -5m 300m Yards 335,000m ² (2) Coal Terminal Wharves -10m 200m -5m 235m Yards 71,000m ²							
6. COUNTERPART AGENCY		<F/S> Short-term Plan (through 1997)							
7. OBJECTIVES OF STUDY		(1) Timber Products Terminal Wharves -10m 300m -5m 180m Yards 100,000m ² (2) Coal Terminal Wharves -10m 165m -5m 150m Yards 32,000m ²							
8. DATE OF S/W		Imp. Period: .1994-.1996							
9. CONSULTANT(S)		4. FEASIBILITY AND ITS ASSUMPTIONS						Feasibility: Yes EIRR1) 22.20 FIRR1) 10.60 EIRR2) FIRR2) EIRR3) FIRR3)	
10. STUDY TEAM		Conditions and Development Impacts: Development Impacts: <M/F, F/S> 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.							
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER						2. MAJOR REASONS FOR PRESENT STATUS	
- Cargo Flow Survey - Natural Condition Survey		- Lecture on the method of demand forecast in Rajang Port Authority - Counterpart training :RPAI, EPUI							
12. EXPENDITURE		3. PRINCIPAL SOURCE OF INFORMATION		①②					
Total 261,452 (¥'000) Contracted 253,034									

和名 ラジャン港開発計画

(M/P+F/S)

PROJECT SUMMARY (M/P)

ASE MYS/S 106/92

Compiled Mar.1994
Revised

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	Highway Network Development Plan	Malaysia as a whole Area 330,000 Km ² Population in 1990 18,010,200			(Description) Among priority projects identified in this study, the following two projects are requested for conducting feasibility studies under JICA technical cooperation program: (1) Outer Ring Road Project in Kuala Lumpur Metropolitan Area (2) Sabah - Sarawak Linkage Project													
3.SECTOR	Transportation/Fish Processing	2.PROJECT COST																
4.REFERENCE NO.		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">(US\$1,000)</th> <th style="text-align: center;">Total Cost</th> <th style="text-align: center;">Local Cost</th> <th style="text-align: center;">Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td style="text-align: center;">20,884</td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td style="text-align: center;">138,329</td> <td></td> <td></td> </tr> </tbody> </table>					(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	20,884			2)	138,329		
(US\$1,000)	Total Cost	Local Cost	Foreign Cost															
1)	20,884																	
2)	138,329																	
5.TYPE OF STUDY	M/P	3.CONTENTES OF MAJOR PROJECT(S)																
6.COUNTERPART AGENCY	Economic Planning Unit (EPU), Prime Minister's Department	1. Master plan of the highway network development to the year 2010. Total length 15,298km - Expressway 1,349km - Major highway 5,978km - Minor & Primary Highway 7,926km																
7.OBJECTIVES OF STUDY	To formulate a development plan of the national highway network targeted to 2010	2. Proposed highway development projects are 72 in peninsula Malaysia, 13 in Sabah and 10 in Sarawak.																
8.DATE OF S/W	Mar.1990	3. Devised the plan such as: Phase I (1996-2000) Those II (2001-2005) Phase III (2006-2010) Formulated the action plan with priority decisions.																
9.CONSULTANT(S)	Fukuyama Consultants International, Inc. Pacific Consultants International	4.CONDITIONS AND DEVELOPMENT IMPACTS																
10.STUDY TEAM	No.of Members 13 Period Mar.1991-Mar.1993(25 months)	1. Presumption Malaysia intends to become an advanced Industrial Nation to the year 2020. In this context, socio - economic activities in the year 2010 are (1) population - 27.5 million (2) GDP M\$ 304.9 billion, (3) GDP yen capita M\$11,100																
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Traffic Surveys include Vehicle Owner Interview Survey, Roadside O-D Interview Survey, Traffic Count Survey	2. Traffic Demands It is expected to increase traffic demands as follows: Passenger Traffic 1991 4,871 million pass 2010 13,017 million pass. Freight Traffic 1991 639 million ton, 2010 2,392 million ton																
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"></th> <th style="text-align: right;">Total</th> <th style="text-align: right;">Japan</th> <th style="text-align: right;">Field</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: right;">430,210 (¥000)</td> <td></td> <td></td> </tr> <tr> <td>Contracted</td> <td style="text-align: right;">412,714</td> <td style="text-align: right;">4.90</td> <td style="text-align: right;">87.20</td> </tr> </tbody> </table>		Total	Japan	Field		430,210 (¥000)			Contracted	412,714	4.90	87.20	5. TECHNICAL TRANSFER				
	Total	Japan	Field															
	430,210 (¥000)																	
Contracted	412,714	4.90	87.20															
		Technology has transferred to the Malaysian Counterparts through studying with counterpart personnel. In addition, counterpart training in Japan was held two times and a workshop was held in Kuala Lumpur.			2.MAJOR REASONS FOR PRESENT STATUS													
					3.PRINCIPAL SOURCE OF INFORMATION													
					①													

和名 全国道路網整備計画

(M/P,Basic Study,Other)

PROJECT SUMMARY (M/P+F/S)

ASE MYS/S 212B/92

Compiled Mar.1994
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																															
1. COUNTRY Malaysia		1. SITE OR AREA Whole Malaysia Total Area 330 thousand sq. km. Total Population 18,000 thousand				<table border="0" style="width: 100%;"> <tr> <td rowspan="4" style="vertical-align: top;">1. PRESENT STATUS</td> <td><input type="checkbox"/> Completed or in Progress</td> <td><input checked="" type="checkbox"/> Promoting</td> </tr> <tr> <td><input type="radio"/> Completed</td> <td></td> </tr> <tr> <td><input type="radio"/> Partially Completed</td> <td><input type="checkbox"/> Delayed or Suspended</td> </tr> <tr> <td><input type="radio"/> Implementing</td> <td></td> </tr> <tr> <td colspan="2"></td> <td><input type="checkbox"/> Discontinued or Cancelled</td> </tr> <tr> <td colspan="3">(Description)</td> </tr> <tr> <td colspan="3">1. Status of Project Implementation and Materialization of the Study.</td> </tr> <tr> <td colspan="3"> (i) Project Implementation: There is a slight delay as we have yet to write to EPU to request for funds to implement the Project. (ii) Study Recommendation - Need to Eliminate-Design const. Deficiencies in New Bridges. This is on going process. - Need to strictly control overloaded trucks weighbridges are being installed. - Need to establish bridge inspection : Maintenance organization already established. </td> </tr> <tr> <td colspan="3">2. Status of Manual The manual has been circulated to all Districts. It is definitely being used key everyone in Bridge Maintenance.</td> </tr> <tr> <td colspan="3">(FY 1993 Overseas Survey)</td> </tr> <tr> <td colspan="3"> - JICA's study on the standardization of Bridge Design has been planned. - Design and preparation of document contracts are implemented for maintenance and rehabilitation works on bridges at the average of 15-20 projects per year. </td> </tr> </table>		1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress	<input checked="" type="checkbox"/> Promoting	<input type="radio"/> Completed		<input type="radio"/> Partially Completed	<input type="checkbox"/> Delayed or Suspended	<input type="radio"/> Implementing				<input type="checkbox"/> Discontinued or Cancelled	(Description)			1. Status of Project Implementation and Materialization of the Study.			(i) Project Implementation: There is a slight delay as we have yet to write to EPU to request for funds to implement the Project. (ii) Study Recommendation - Need to Eliminate-Design const. Deficiencies in New Bridges. This is on going process. - Need to strictly control overloaded trucks weighbridges are being installed. - Need to establish bridge inspection : Maintenance organization already established.			2. Status of Manual The manual has been circulated to all Districts. It is definitely being used key everyone in Bridge Maintenance.			(FY 1993 Overseas Survey)			- JICA's study on the standardization of Bridge Design has been planned. - Design and preparation of document contracts are implemented for maintenance and rehabilitation works on bridges at the average of 15-20 projects per year.		
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2. NAME OF STUDY Maintenance and Rehabilitation of Bridges		2. PROJECT COST (US\$1,000) <table border="0" style="width: 100%; border: none;"> <tr> <td style="border: none;"></td> <td style="border: none;">M/P 1)</td> <td style="border: none;">Local Cost</td> <td style="border: none;">Foreign Cost</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">2)</td> <td style="border: none;"></td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">F/S 1)</td> <td style="border: none;">21,282</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">2)</td> <td style="border: none;"></td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">3)</td> <td style="border: none;"></td> <td style="border: none;"></td> </tr> </table>			M/P 1)	Local Cost	Foreign Cost		2)				F/S 1)	21,282			2)				3)																
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	2)																																				
	F/S 1)	21,282																																			
	2)																																				
	3)																																				
3. SECTOR Transportation/Fish Processing		3. CONTENTS OF MAJOR PROJECT(S) <M/P, F/S> Bridge maintenance and rehabilitation covering a total of 203 bridges, out of 216 Study Bridges, with the following aspects - the project shall be divided into five packages - the construction of the first package shall be commenced in early 1994 - each package shall be completed within one Malaysian fiscal year																																			
4. REFERENCE NO.																																					
5. TYPE OF STUDY M/P+F/S																																					
6. COUNTERPART AGENCY Ministry of Works, Public Works Department, Road Branch, Bridge Unit																																					
7. OBJECTIVES OF STUDY - To develop a systematic maintenance and rehabilitatio program fo bridges in Peninsular - To establish a manual of inspection, maintenance and rehabilitation work																																					
8. DATE OF S/W Feb.1990																																					
9. CONSULTANT(S) Nippon Koei Co., Ltd.		Imp. Period:																																			
		4. FEASIBILITY AND ITS ASSUMPTIONS		<table border="0" style="width: 100%; border: none;"> <tr> <td style="border: none;">Feasibility:</td> <td style="border: none;">EIRR1)</td> <td style="border: none;">FIRR1)</td> </tr> <tr> <td style="border: none;">Yes/No</td> <td style="border: none;">EIRR2)</td> <td style="border: none;">FIRR2)</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">EIRR3)</td> <td style="border: none;">FIRR3)</td> </tr> </table>		Feasibility:	EIRR1)	FIRR1)	Yes/No	EIRR2)	FIRR2)		EIRR3)	FIRR3)																							
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	EIRR3)	FIRR3)																																			
10. STUDY TEAM		Conditions and Development Impacts: <M/P, F/S> Condition: 1) Bridge Unit in Federal JKR is the executing agency for the Project Implementation in cluding undertaking detailed design. 2) State JKR and District JKR are responsible for construction management and monitoring the project and the direct construction supervision respectively. Impacts: 1) To prevent the adverse consequence such as a loss of traffic safety, a reduction of structural safety, 2) To decrease the Government expenditure for bridge replacement 3) To improve self-reliance for bridge inspection maintenance and rehabilitation																																			
No.of Members 9 Period Aug.1990~Nov.1992 (27 months)				2. MAJOR REASONS FOR PRESENT STATUS																																	
<table border="0" style="width: 100%; border: none;"> <tr> <td style="border: none;">Total M/M</td> <td style="border: none;">Japan</td> <td style="border: none;">Field</td> </tr> <tr> <td style="border: none;">71.19</td> <td style="border: none;">15.70</td> <td style="border: none;">55.49</td> </tr> </table>		Total M/M	Japan			Field	71.19	15.70	55.49																												
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71.19	15.70	55.49																																			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Subsoil Investigation, Topographic Survey, Installation of Scaffolding, Bridge Measurement Survey, Loading Test		5. TECHNICAL TRANSFER - Technical transfer for methods of bridge inventory, survey loading test - C/P Training in Japan - Holding Seminars																																			
12. EXPENDITURE		3. PRINCIPAL SOURCE OF INFORMATION ①②																																			
<table border="0" style="width: 100%; border: none;"> <tr> <td style="border: none;">Total</td> <td style="border: none;">149,167 (¥'000)</td> </tr> <tr> <td style="border: none;">Contracted</td> <td style="border: none;">286,499</td> </tr> </table>		Total	149,167 (¥'000)	Contracted	286,499																																
Total	149,167 (¥'000)																																				
Contracted	286,499																																				

和名 全国橋梁維持・修正計画

[M/P+F/S]

PROJECT SUMMARY (M/P+F/S)

ASO MDV/S 201B/92

Compiled Mar.1994
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																											
1.COUNTRY	Maldives	1.SITE OR AREA		The coast around Male' Island (about 4,700m)		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																										
2.NAME OF STUDY	Seawall Construction Project for Male' Island	2.PROJECT COST (US\$1,000)						M/P 1) 51,422 Local Cost	Foreign Cost 51,422																								
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTES OF MAJOR PROJECT(S)				(Description) By the request of the Government of Republic of Maldives in February 1993 for a grant aid cooperation for the construction of seawalls along the West Coast of Male' Island where the utmost urgency of the construction was indicated by the requests of the development study, the Government of Japan decided to carry out a basic design study in connection with the coastal disaster prevention plan for the Island of Male', and JICA dispatched a basic design study team between August and September, 1993 to investigate the necessary and propriety of the plan. After that the construction procedure and roughly cost estimation was carried out. The Exchange Note (E/N) will be concluded between the Government of Japan and Government of Republic of Maldives in Jounary 1994, and construction work will start 1994 by two years work periods. (FY 1993 Overseas Survey) Feb. 1994 E/N was concluded. Contens: 32 million yen (for D/D) 1,300 million yen (for Phase I 1994.10-1995.12)																											
4.REFERENCE NO.		Maldives has experienced inundation disaster by waves since the 1980s. For protection of disaster, the project will be conducted by the construction of seawall. The order of construction plan of seawall is made according to urgent. The length of seawalls and project cost each coasts is as follows: West - Coast 774.00 m US\$.10,328,156. East - Coast 1,009.22 m US\$.13,632,487. South - Coast 1,508.83 m US\$.17,057,963. North - Coast 1,441.00 m US\$.10,403,567.																															
5.TYPE OF STUDY	M/P+F/S																																
6.COUNTERPART AGENCY	Ministry of Foreign Affairs Ministry of Public Works and Labor																																
7.OBJECTIVES OF STUDY	To formulate the construction plan of the seawall for the prevention of high-tyde and high-wave at Male' Island. To perform technology transfer for counterpart personnel																																
8.DATE OF S/W	Jan.1991																																
9.CONSULTANT(S)	Pacific Consultants International INA Civic Engineering Consultants Co., Ltd.																																
10.STUDY TEAM								Imp. Period: 1994-1999		4.FEASIBILITY AND ITS ASSUMPTIONS		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">Feasibility:</td> <td style="width: 10%;">EIRR1)</td> <td style="width: 10%;">24.00</td> <td style="width: 10%;">FIRR1)</td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>Yes/No</td> <td>EIRR2)</td> <td>30.00</td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> <td></td> </tr> </table>			Feasibility:	EIRR1)	24.00	FIRR1)			Yes/No	EIRR2)	30.00	FIRR2)				EIRR3)		FIRR3)			
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">No.of Members</td> <td style="width: 20%;">11</td> </tr> <tr> <td>Period</td> <td>Aug.1991-Dec.1992 (17 months)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total M/M</td> </tr> <tr> <td style="width: 20%;"></td> <td style="width: 20%;">Japan</td> <td style="width: 20%;">Field</td> <td style="width: 20%;"></td> </tr> <tr> <td></td> <td>41.50</td> <td>18.20</td> <td>23.30</td> </tr> </table>		No.of Members	11	Period	Aug.1991-Dec.1992 (17 months)	Total M/M			Japan	Field			41.50	18.20	23.30	Conditions and Development Impacts:		2.MAJOR REASONS FOR PRESENT STATUS															
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11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		EIRR 1) is with Northern Coast 2) is without Northern Coast [Design Condition] of seawall <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Design Wave</td> <td style="width: 15%;">offshore-wave,</td> <td style="width: 15%;">Frontof Facility</td> <td style="width: 15%;">D.H.W.L</td> <td style="width: 15%;">crown tyde</td> </tr> <tr> <td></td> <td>H(m), T(sec)</td> <td>H(m) T(sec)</td> <td>(D.L +m)</td> <td>(D.L.+m)</td> </tr> <tr> <td>West-coast</td> <td>1.2 4.6</td> <td>---</td> <td>1.34</td> <td>North 3.00/ South 2.60</td> </tr> <tr> <td>East-Coast</td> <td>3.0 16</td> <td>1.3 16</td> <td>1.64</td> <td>3.00</td> </tr> <tr> <td>South-Coast</td> <td>3.0 16</td> <td>0.7 6</td> <td>1.63</td> <td>North 1.80/ South 2.4</td> </tr> <tr> <td>North-Coast</td> <td>0.6 4.6</td> <td>---</td> <td>1.34</td> <td>2.10</td> </tr> </table>		Design Wave	offshore-wave,	Frontof Facility	D.H.W.L	crown tyde		H(m), T(sec)	H(m) T(sec)	(D.L +m)	(D.L.+m)	West-coast	1.2 4.6	---	1.34	North 3.00/ South 2.60	East-Coast	3.0 16	1.3 16	1.64	3.00	South-Coast	3.0 16	0.7 6	1.63	North 1.80/ South 2.4	North-Coast	0.6 4.6	---	1.34	2.10
Design Wave	offshore-wave,	Frontof Facility	D.H.W.L	crown tyde																													
	H(m), T(sec)	H(m) T(sec)	(D.L +m)	(D.L.+m)																													
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Total	166,830 (¥'000)																																
Contracted	179,206																																

和名 マレ島海岸防災計画

(M/P+F/S)

PROJECT SUMMARY (F/S)

ASO MNG/S 301/92

Compiled Mar.1994
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Mongolia	1.SITE OR AREA	Zamin-Uud Station			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Improvement plan for transshipment facilities at Zamin-Uud Station	2.PROJECT COST (US\$1,000)	1) 2) 3)	Total Cost 2,217	Local Cost 314		
3.SECTOR	Transportation/Railway	3.CONTENTES OF MAJOR PROJECT(S)	* Project costs are shown in " million yen" instead of US\$1,000. Since the track gauge of Mongolia is different from that of China, Mongolia necessitates a cargo transshipment facilities at its border station of Zamin-Uud. Thus, the following structures, facilities and equipment are to be constructed or introduced at the station. Embankments, tracks, platforms, equipment of signal, telecommunication, lighting and powering, access road main office buildings, site office buildings, signal equipment room, signal cabin, cargo storage houses, garages antitheft fences, residential houses and cargo handling equipment (reach stacker, forklift and conveyor).				(Description) In June 1993, Notes Exchanged (E/N) between the Mongolian and Japanese government were signed for implementing this project with free financial assistance from the Japanese government. Afterward, Pacific Consultant International was selected as the consultant and conducted the detailed design (D/D). On September 13, 1993, Kohnoike Gumi was appointed as the contractor through bidding. Following the authorization of the Japanese government on October 21, full-fledged construction work started. At present, work is in progress in surveying, well boring transport of earth and sand for embankments, and construction of temporary offices and houses for workers. The 1st-stage construction (construction of facilities for transshipment of freight carried by wagons) is scheduled to be completed by March 1995. The 2nd stage construction (construction of facilities for container cars) will start after the signing of E/N expected in 1994. The entire project is scheduled to be completed in 1996. (FY1993 Overseas Survey) The Government expects further cooperation for the second stage of the project.
4.REFERENCE NO.		5.TYPE OF STUDY					
7.OBJECTIVES OF STUDY	F/S on the construction of cargo transshipment facilities	8.DATE OF S/W	Apr.1992		Imp. Period:	Jun.1993-Mar.1996	
9.CONSULTANT(S)	Japan Railway Technical Service Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) 26.28 EIRR2) EIRR3)	FIRR1) 1.91 FIRR2) FIRR3)	2.MAJOR REASONS FOR PRESENT STATUS	
10.STUDY TEAM	No.of Members 10 Period Aug.1992-Mar.1993(8 months)	Conditions and Development Impacts: Condition for Economic Analysis * Saving of cargo transshipment fees being paid to China * Acquisition of cargo transshipment fees Russia is paying to China * Saving of investment costs for facilities and equipment necessary for cross-border cargo transport by truck Conditions for Financial Analysis * Two-fold increase of cargo transshipment fees * Triennial 25% increases cargo transshipment fees * Introduction of loans with low-rates Development Impacts Shorten cargo delivery time, cutting of foreign exchange drain, creation of employment opportunities, vitalization of economy and industries, stabilization of prices and enhancement of Mongolian position in the international relations.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer	Technology transfer was made on the methods of demand estimate economic and financial analysis and planning.				3.PRINCIPAL SOURCE OF INFORMATION ①②
12.EXPENDITURE	Total 148,035 (¥000) Contracted 137,952						

和名 ザミンウード駅貨物積替施設整備計画

(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																																						
2.NAME OF STUDY	Irrawaddy Basin Integrated Agricultural Development Project	2.PROJECT COST																																							
3.SECTOR	Agriculture/General	(US\$1,000)	Total Cost	Local Cost	Foreign Cost																																				
4.REFERENCE NO.			1) 2,020,000																																						
5.TYPE OF STUDY	M/P		2)																																						
6.COUNTERPART AGENCY	Ministry of Agriculture and Forestries	3.CONTENTS OF MAJOR PROJECT(S)		1.PRESENT STATUS <div style="float: right;"> <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued </div> (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.																																					
7.OBJECTIVES OF STUDY	Establishment of agricultural development plan for 2.9 million ha along the middle Irrawaddy basin.	- The five (5) Irrigation projects with a wet paddy cropping area of 114,800ha, a dry paddy cropping area of 9,500ha and a dry season upland crops of 69,600ha, out of it proposed irrigation projects, are selected as a priority project. The total irrigation area of a wet paddy is 391,400ha. - Damp ground areas of 78,000ha along the Irrawaddy river will be reclaimed by flood protection dikes. The proposed dike length of 86km, the proposed drainage canal of 48.3km with gates, are planned. - As a rural development, village water supply village roads are proposed. The road development project contains about 1,227km of the national road development and about 10,454 of regional roads development. - The 24 hydro power stations with a total output of 38,000 kw and a total generating power of 130 MWH are proposed. - Out of the above development plans, agricultural development, fishing development, forestry development, animal husbandry development are included in this study.																																							
8.DATE OF S/W	Oct.1977	4.CONDITIONS AND DEVELOPMENT IMPACTS																																							
9.CONSULTANT(S)	Sanyu Consultants Inc.	[Conditions] It is difficult to develop all the project area at sometime. Prior to implementation, the basic concept of development shall be established, and the priority project shall be selected. The development with a harmony of various fields and areas shall be carried out under the total development frame work. By this development procedure, a smooth and effective development will be expected. [Impacts] 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. Total Production and incremental production of major crops. <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>crops</th> <th>Present</th> <th>Proposed</th> <th>Present</th> <th>Proposed</th> <th>incremental (unit:1000ton)</th> </tr> </thead> <tbody> <tr> <td>Paddy</td> <td>1,872</td> <td>2,197</td> <td>1,743</td> <td>3,940</td> <td>2,068</td> </tr> <tr> <td>Jute</td> <td>16</td> <td>19</td> <td>35</td> <td>54</td> <td>38</td> </tr> <tr> <td>Groundnut</td> <td>46</td> <td>141</td> <td>50</td> <td>191</td> <td>64</td> </tr> <tr> <td>Sesame</td> <td>4</td> <td>63</td> <td>5</td> <td>68</td> <td>121</td> </tr> <tr> <td>Beans</td> <td>44</td> <td>125</td> <td>40</td> <td>165</td> <td></td> </tr> </tbody> </table> (FY 1993 Domestic Survey)				crops	Present	Proposed	Present	Proposed	incremental (unit:1000ton)	Paddy	1,872	2,197	1,743	3,940	2,068	Jute	16	19	35	54	38	Groundnut	46	141	50	191	64	Sesame	4	63	5	68	121	Beans	44	125	40	165	
crops	Present	Proposed	Present			Proposed	incremental (unit:1000ton)																																		
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Sesame	4	63	5			68	121																																		
Beans	44	125	40			165																																			
10.STUDY TEAM	No.of Members 14 Period Feb.1978-Mar.1980 (26 months)																																								
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">55.36</td> <td style="text-align: center;">31.73</td> <td style="text-align: center;">23.63</td> </tr> </tbody> </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				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.																																					
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Total</td> <td style="text-align: right;">293,115 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td style="text-align: right;">243,519</td> </tr> </tbody> </table>	Total	293,115 (¥'000)			Contracted	243,519	5. TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION (X24)																															
Total	293,115 (¥'000)																																								
Contracted	243,519																																								
		1. Acceptance of two trainees 2. Establishing observation equipment of weather and water condition, and training of how to use them																																							

和名 イラワジ川流域農業総合開発計画

(M/P, 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"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY	Rice Mill Project	Kanaungtoe, Bassein, Kyduktaqa, Kawa, Hlequ, Danubyu, Einme, Deddye						
3.SECTOR	Agriculture/	2.PROJECT COST		Total Cost	Local Cost	(Description)		
4.REFERENCE NO.		(US\$1,000)	1)	43,715	21,950			Foreign Cost
5.TYPE OF STUDY	F/S	US\$1=6.5K.=200Yen		2)			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.	
6.COUNTERPART AGENCY	Ministry of Trade	3) Electrical Equipment: receiving cubicles(6 r.mills), control board(8 r. mills), lighting and power control cabling(8 r. mills)						
7.OBJECTIVES OF STUDY	F/S on construction of Rice Mills (8 factories)	3.CONTENTS OF MAJOR PROJECT(S)						
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	FIRR1)		
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.		EIRR2)	FIRR2)			
	Total M/M Japan Field	Benefits Unit:1,000K		EIRR3)	FIRR3)			
	28.17 17.94 10.23	Output 1982 1983 1984 1985						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		From						
12.EXPENDITURE		New Rice Mill 290,561 336,270 406,895 489,391						
	Total 72,813 (¥'000)	Old Rice Mill 256,924 278,377 309,694 342,054						
	Contracted 70,733	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.						
		5. TECHNICAL TRANSFER						
						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)		
						3.PRINCIPAL SOURCE OF INFORMATION		
						①②④		

和名 ライスミル建設計画

(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"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Rangoon International Airport Development	Yangon					
3.SECTOR	Transportation/Air Transportaion & Airport	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1)	127,134	38,156	88,978	
5.TYPE OF STUDY	F/S	(US\$1=240Yen=6.35Kyat)	2)				
6.COUNTERPART AGENCY	Dept. of Civil Aviation, Min. of Transport and Communications	3)					
7.OBJECTIVES OF STUDY	Plan facility upgrading : study of economic/ financial feasibility and socio-economic effects; recommendation on administrative organization	3.CONTENTS OF MAJOR PROJECT(S)				(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.	
8.DATE OF S/W	Jun.1979	Components	Target year 1995 (Phase I)	Target year 2005 (Phase II)			
9.CONSULTANT(S)	Japan Airport Consultants, Inc.	- Runway (Existing 2,500m x 60m)	3,330m x 60m	3,700m x 60m			
10.STUDY TEAM	No.of Members 10 Period Oct.1979-Mar.1980(6 months)	- Apron (Existing 175m x 424m)	110,529sq.m	137,529sq.m			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey	- Int'l Terminal Bldg.	9,270sq.m	17,600sq.m			
12.EXPENDITURE	Total 67,402 (¥000) Contracted 63,466	- Control Tower, Administrative Bldg. (Existing 490 m2)	2,800sq.m	2,800sq.m			
		- Nav aids Renewed for CAT-I					
		- Radio Navigation Aids					
		- Meteorological Service Facilities					
		- Car Parking					
		- Fuel Storage					
		- Utilities, etc.					
		4.FEASIBILITY AND ITS ASSUMPTIONS					
		Feasibility: Yes					
		EIRR1) 12.10 FIRR1) 2.40					
		EIRR2) FIRR2)					
		EIRR3) FIRR3)					
		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.					
		5. TECHNICAL TRANSFER					
		1) OJT; 2) JICA counterpart training; 3) joint work with local consultants; 4) Subcontracting of topographic survey to the local firm					
		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)					
		3. PRINCIPAL SOURCE OF INFORMATION					
		①②④					

和名 ラングーン国際空港拡張計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

ASO MYN/A 302/80

Compiled Mar.1990
Revised Mar.1994

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: 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) 7,900</td> <td style="text-align: center;">2,900</td> <td style="text-align: center;">5,000</td> </tr> <tr> <td>US\$1=6.44kyats</td> <td style="text-align: center;">2) 88,000</td> <td style="text-align: center;">36,600</td> <td style="text-align: center;">51,400</td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td></td> <td></td> </tr> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 7,900	2,900	5,000	US\$1=6.44kyats	2) 88,000	36,600	51,400		3)			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><input checked="" type="checkbox"/> Completed or in Progress</td> <td style="width: 50%;"><input type="checkbox"/> Promoting</td> </tr> <tr> <td><input type="checkbox"/> Completed</td> <td><input type="checkbox"/> Delayed or Suspended</td> </tr> <tr> <td><input checked="" type="checkbox"/> Partially Completed</td> <td><input type="checkbox"/> Discontinued or Cancelled</td> </tr> <tr> <td><input checked="" type="checkbox"/> Implementing</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Processing</td> <td></td> </tr> </table>		<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"/> Partially Completed	<input type="checkbox"/> Discontinued or Cancelled	<input checked="" type="checkbox"/> Implementing		<input type="checkbox"/> Processing	
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<input type="checkbox"/> Processing																																	
2.NAME OF STUDY South Nawin Irrigation Project		74,000acre southwest of Prone City, left bank of Irrawaddy River, 160 miles north northwest of Rangoon, population 96000		(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, the progress of construction has slowed down sharply. (FY1992 Overseas Survey) Scheduled to be completed by May 1995. (FY1993 Overseas Survey) Mar. 1995 scheduled to be completed. Construction cost: Foreign Currency 291.2 Local Currency 585.1 Total 876.3 (unit: million kyats)																													
3.SECTOR Agriculture/General		3.CONTENTES OF MAJOR PROJECT(S) Irrigation : first crop (paddy) 24,000ha second crop (farm) 22,660ha, total 46,660ha 1)Main dam : Zoned type filldam, height 41.5m, length 5,120m, volume 5.10million cu.m capacity 2)Diversion 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 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)Field improvement Note: The project cost1) above is for the pilot project, and 2) is for the whole projects.																															
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: EIRR1) 13.50 FIRR1) Yes EIRR2) FIRR2) EIRR3) FIRR3)																													
5.TYPE OF STUDY F/S		Conditions and Development Impacts: [Conditions] 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) Paddy Peanuts Sesami Gram Without project 1,951 139 429 293 With project 2,200 404 520 249 [Development Impacts] (1)Increased agricultural productivity (2)Improved living standard of people in rural areas (3)Increased all year employment opportunities																															
6.COUNTERPART AGENCY Ministry of Agriculture & Forests, Irrigation Department		5.TECHNICAL TRANSFER		2.MAJOR REASONS FOR PRESENT STATUS 1. The project is integrated into the national development plan and high in priority. 2. In recent years, extreme foreign exchange constraint has made it difficult to import necessary construction materials and equipment. (FY1992 Overseas Survey) The Myanmar economy is based on agriculture, and the national economy can be developed after the completion of this project, which is considered top																													
7.OBJECTIVES OF STUDY		(1)Acceptance of one trainee (2)Supply of equipments and training of how to use them (3)Cooperation in writing a report																															
8.DATE OF S/W Dec.1978		8.DATE OF S/W Dec.1978		3.PRINCIPAL SOURCE OF INFORMATION ①②④																													
9.CONSULTANT(S) Sanyu Consultants Inc. Chuo Kaihatsu International Corp.		Imp. Period: .1979-.1988																															
10.STUDY TEAM No.of Members 12 Period Jan.1979-Mar.1980 (15 months) Total M/M Japan Field		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		12.EXPENDITURE Total 163,131 (¥'000) Contracted 130,809																													
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		12.EXPENDITURE																															

和名 南ナウインかんがい計画

[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				1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2. NAME OF STUDY Okkan Dam Irrigation Project		About 21,000ha in Myitnaka River left bank (80km north northwest of the capital, Rangoon)						
3. SECTOR Agriculture/General		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost		
4. REFERENCE NO.		(US\$1,000)	1)	54,000	29,000	25,000		
5. TYPE OF STUDY F/S		2)	3)					
6. COUNTERPART AGENCY Ministry of Agriculture and Forestry, Department of Irrigation		3. CONTENTS 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.		
7. OBJECTIVES OF STUDY Increase of rice production		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 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						
8. DATE OF S/W Nov.1980		Imp. Period: .1981-.1989						
9. CONSULTANT(S) Sanyu Consultants Inc.		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 26.15 EIRR2) 10.53 EIRR3)			FIRR1) FIRR2) FIRR3)
10. STUDY TEAM No. of Members 10 Period Jan.1981-Nov.1981 (11 months) Total M/M Japan Field 37.85 19.46 18.39		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.						
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				2. MAJOR REASONS FOR PRESENT STATUS		
12. EXPENDITURE		Through assisting engineers and specialists in Myanmar Government in the fields of final decision, construction supervision and extension services.				Continuing political and economic destabilization makes it difficult to resume the loan application.		
Total 105,200 (¥000) Contracted 94,376								3. PRINCIPAL SOURCE OF INFORMATION ①②

和名 オカンダムかんがい計画

[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	Rangoon city area			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Electrification of Rangoon Circular Railway Line	2.PROJECT COST					
3.SECTOR	Transportation/Railway	(US\$1,000)	1) 79,480	25,410	54,070	(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.	
4.REFERENCE NO.		(US\$1= 229Yen)	2)				
5.TYPE OF STUDY	F/S		3)				
6.COUNTERPART AGENCY	Burma Railway Corporation	3.CONTENTS OF MAJOR PROJECT(S)					
7.OBJECTIVES OF STUDY	Electrification project to strengthen transport capacity and modernize the national railway in the Rangoon city area	- Power transmission wire: 5.95km, 2 circuits - One substation(for power source and feeding) - Catenary (25KV, simple system): 176km in length - Track(including civil works): 2km of new construction, 1.7km relocated, 15.5km of roadbed - Rolling stock: Introduction of electric locomotives and passenger cars - Other improvements: Repair of facilities, etc.					
8.DATE OF S/W	Aug.1983	Imp. Period: Oct.1986-Jan.1990					
9.CONSULTANT(S)	Japan Railway Technical Service	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 15.40 EIRR2) EIRR3)	FIRR1) 5.10 FIRR2) FIRR3)		
10.STUDY TEAM	No. of Members 12 Period Feb.1984-Mar.1985(13 months)	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					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	5. TECHNICAL TRANSFER					
12.EXPENDITURE	Total 124,018 (¥000) Contracted 123,136	1. One JICA counterpart training; 2. OJT					
2.MAJOR REASONS FOR PRESENT STATUS						3.PRINCIPAL SOURCE OF INFORMATION	
Due to the delay of the loan repayment, Myanmar has been classified as LLDC.							
						①②	

和名 ラングーン鉄道環状線電化計画

(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="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled					
2.NAME OF STUDY	Construction of Dry - Dock Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost							
3.SECTOR	Transportation/Marine Transportation & Ships		1) (US\$1,000)	2) (US\$1=150Yen)	3)	(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.		3.CONTENT(S) OF MAJOR PROJECT(S)	Dry Dock for 20,000 DWT-class ships (200m x 30m x 10.5m depth) Type of Dock : Graving Type Mooring Quay : 200M x 2 Other facilities necessary for ship repairing work Progress planning : Start of construction April 1986 : Start of operation April 1989 : Completion of construction April 1990									
5.TYPE OF STUDY	F/S	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 13.50	FIRR1) 8.70							
6.COUNTERPART AGENCY	Burma Dockyards Corporation	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. To up-grade own technology for shiprepairing through the services for domestic fleet so as to prevent the foreign currencies flowing-out stems from repairing works at foreign shipyards at present. In future, to earn foreign currencies by repairing services to foreign-flag ships. <div style="text-align: right;">(FY 1993 Domestic Survey)</div>										
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											
10.STUDY TEAM	No.of Members 8 Period Aug.1983-Jul.1984 (12 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;">39.00</td> <td style="text-align: center;">24.70</td> <td style="text-align: center;">14.30</td> </tr> </table>	Total M/M	Japan	Field	39.00			24.70	14.30			
Total M/M	Japan	Field										
39.00	24.70	14.30										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	None											
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">111,982 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">92,466</td> </tr> </table>	Total	111,982 (¥'000)	Contracted	92,466	5. TECHNICAL TRANSFER	OJT for counterparts					
Total	111,982 (¥'000)											
Contracted	92,466											
		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,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		<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>(US\$1,000)</td> <td style="text-align: center;">1) 81,200</td> <td style="text-align: center;">21,467</td> <td style="text-align: center;">59,733</td> </tr> <tr> <td>(US\$1=7.5Kyat)</td> <td style="text-align: center;">2) 101,200</td> <td style="text-align: center;">20,533</td> <td style="text-align: center;">80,667</td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td></td> <td></td> </tr> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 81,200	21,467	59,733	(US\$1=7.5Kyat)	2) 101,200	20,533	80,667		3)			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> 1.PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled </td> <td style="width: 50%; vertical-align: top;"> (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. </td> </tr> </table>		1.PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	(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.
	Total Cost	Local Cost	Foreign Cost																						
(US\$1,000)	1) 81,200	21,467	59,733																						
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1.PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	(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.																								
2.NAME OF STUDY Irrawaddy River Bridge Construction Project		Vicinity of Prome City, approx.400km from Rangoon, the middle of the Irrawaddy River																							
3.SECTOR Transportation/Fisheries		3.CONTENTS OF MAJOR PROJECT(S) The feasibility study for the construction of Irrawaddy River Bridge, which would be constructed as a RAILWAY-CUM-ROAD Bridge or ROAD BRIDGE near Myawaddy in order to stimulate the social and economic activities of the area lying on the Western Bank of the Irrawaddy River. The cost 1) is for the road bridge, and the cost 2) for is the road and railway bridge. - Road bridge Bridge Length : 1,149.5m Bridge Type : Cast-in-situ prestressed concrete box girder (maximum span length = 132m) Bridge Sections : Width 12.3m - Rail-cum-road bridge Bridge Length : 1,149.5m Bridge Type : Single deck steel truss with the railway on one-side (maximum span length = 132m) Bridge Sections : Total width 17.40m																							
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: No EIRR1) 2.00 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)																							
5.TYPE OF STUDY F/S		Conditions and Development Impacts: Assumption: 1) Target years are 1993 and 2022. 2) Development benefit of the regional economy attributable to the bridge project was estimated from the GRP of DIA assuming the bridge completion in 1992. Development Impact: The proposed bridge can serve as a key east-west linkage for the formation of a national transport network and increase efficiency of the movement of passengers and cargos crossing the Irrawaddy River. With this linkage, the network can have the first and direct land transport approach to the Bay of Bengal and Bassein Port. (FY 1993 Domestic Survey)																							
6.COUNTERPART AGENCY Construction Corporation		5.technical transfer Traffic demand forecast																							
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																									
10.STUDY TEAM No.of Members 12 Period Nov.1985-Mar.1987(17 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;">62.09</td> <td style="text-align: center;">19.74</td> <td style="text-align: center;">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																									
12.EXPENDITURE Total 206,045 (¥'000) Contracted 194,957																									
		2.MAJOR REASONS FOR PRESENT STATUS																							
		3.PRINCIPAL SOURCE OF INFORMATION ①②																							

和名 イラワジ河橋梁建設計画

(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 type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <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			
		(US\$1,000)	1)	163,000	57,000	106,000	(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.				
3.SECTOR Transportation/Railway		(US\$1=199Yen)	2)								
4.REFERENCE NO.		3)	3.CONTENTES OF MAJOR PROJECT(S)								
5.TYPE OF STUDY F/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									
6.COUNTERPART AGENCY Burma Railway Corporation		7.OBJECTIVES OF STUDY Formulation of a long-term and short-term development plan for tracks, signalling and telecommunication equipment		8.DATE OF S/W Aug.1985		Imp. Period: 1986-.2001					
9.CONSULTANT(S) Japan Railway Technical Service Pacific Consultants International		4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes		EIRR1) 10.70	FIRR1) 2.80	2.MAJOR REASONS FOR PRESENT STATUS 1) Political destabilization; 2) designation as an LLDC country; 3) under the military regime, all projects except the on-going projects are suspended					
10.STUDY TEAM No.of Members 12 Period Jan.1986-Feb.1987(14 months)		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		EIRR2)	FIRR2)						
<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	37.06	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	
Total M/M	Japan	Field									
90.40	53.34	37.06									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY None		5.technical transfer Participation of a counterpart in JICA training program		3.PRINCIPAL SOURCE OF INFORMATION ①②							
12.EXPENDITURE											
		Total	247,477 (¥'000)								
		Contracted	242,970								

和名 幹線鉄道整備計画

(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			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																				
2.NAME OF STUDY	Rural Telecommunications Network Project	Whole country																								
3.SECTOR	Communications & Broadcasting/Telecommunication	2.PROJECT COST			(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.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%; text-align: center;">1)</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;">34,963</td> <td></td> <td></td> <td style="text-align: center;">34,963</td> </tr> <tr> <td>(US\$1=270Yen)</td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td></td> <td></td> <td></td> </tr> </table>						1)	Total Cost	Local Cost	Foreign Cost	(US\$1,000)	34,963			34,963	(US\$1=270Yen)	2)					3)			
	1)	Total Cost	Local Cost	Foreign Cost																						
(US\$1,000)	34,963			34,963																						
(US\$1=270Yen)	2)																									
	3)																									
5.TYPE OF STUDY	F/S	3.CONTENTS OF MAJOR PROJECT(S)																								
6.COUNTERPART AGENCY	Nepal Telecommunicating Corporation (NTC)	Contents - Construction of the National Radio Telecommunications Network with 53 Radio Stations																								
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																								
10.STUDY TEAM	No.of Members 13 Period Nov.1982-Oct.1983(12 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 20%; text-align: center;">Japan</td> <td style="width: 20%; text-align: center;">Field</td> <td style="width: 30%;"></td> </tr> <tr> <td>Total M/M</td> <td style="text-align: center;">11.50</td> <td style="text-align: center;">12.70</td> <td></td> </tr> <tr> <td>24.20</td> <td></td> <td></td> <td></td> </tr> </table>		Japan	Field		Total M/M	11.50	12.70		24.20				Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)										
	Japan	Field																								
Total M/M	11.50	12.70																								
24.20																										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		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.																								
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 20%; text-align: center;">81,960 (¥000)</td> <td style="width: 50%;"></td> </tr> <tr> <td>Total</td> <td style="text-align: center;">48,007</td> <td></td> </tr> <tr> <td>Contracted</td> <td></td> <td></td> </tr> </table>		81,960 (¥000)		Total	48,007		Contracted			5. TECHNICAL TRANSFER															
	81,960 (¥000)																									
Total	48,007																									
Contracted																										
		OJT was conducted for the counterpart staff.																								
		2.MAJOR REASONS FOR PRESENT STATUS																								
		- large impacts - high priority																								
		3.PRINCIPAL SOURCE OF INFORMATION																								
		①②																								

和名 地方電気通信網整備計画

[F/S,D/D]

PROJECT SUMMARY (M/P)

ASO NPL/S 101/84

Compiled Mar.1988
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS			
1.COUNTRY	Nepal	1.SITE OR AREA	42,000 sq.km in eastern Nepal	1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
2.NAME OF STUDY Kosi River Water Resources Development		2.PROJECT COST (US\$1,000)		(Description) This is the first integrated development study in the region. In particular, the Arun 3 project has been the focus of attention owing to the large potential for cheap power supply. At the request of the Nepalese government, an F/S for the Arun 3 project (Arun 3 Hydropower Development Project) was carried out by JICA. D/D of the Arun 3 was undertaken jointly by West Germany (Lahmeyer/Energ Engineering) and Japan (EPDC/ CRC) during Oct.1988-April.1991. (FY1991 Overseas Survey) The Nepalese Government has requested external funding from ADB, Germany (KfW) and Japan (OECF) for the implementation of the Arun 3 project. Construction is to start in 1992 and to be completed in 2001. The Nepalese Government has repeatedly requested a JICA F/S on the Sun Kosi Diversion Project, but has been unsuccessful, partly because the expected cost of construction could be as large as US\$500 million. (FY1993 Overseas Survey) - Arun 3 Hydroelectric Project Although the F/S planned 402 MW, the Project is to be divided into 2 stages of 201 MW. - Khimti Khola Hydroelectric Project 60MW class was planned. A private company is implementing the project.			
3.SECTOR Social Infrastructures/Water Resource Development		Total Cost Local Cost Foreign Cost 1) 2)					
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)		(FY 1993 Domestic Survey) 2.MAJOR REASONS FOR PRESENT STATUS 1) The Arun 3 hydropower project is the most economically viable project among projects surveyed in Nepal; 2) Implementation of Arun 3 will promote the development of other hydropower projects; 3) Sun Kosi Diversion Project is important partly for its impact on food production and partly for environmental conservation in the Himalayas.			
5.TYPE OF STUDY		1) Arun III Hydropower Development Project This project (240 MW) represented the most economical all 53 hydropower sites (total of 11,000MW) located within the Kosi river system. Under the project as set out in the master plan study, catchment area is 32,332 km ² , maximum discharge is 156 m ³ /s, total head is 194m, facility output is 240 MW, and annual generated energy is 1,965 GWh. Subsequent to this master plan study, the project was the subject of a JICA funded feasibility study, and detailed design (402 MW output) has been completed by a German and Japanese consortium. Development of half the foregoing capacity is in progress with funding by the World Bank.					
6.COUNTERPART AGENCY Department of Electricity Ministry of Water Resources		2) Sun Kosi Diversion Project This is a multipurpose development project comprising diversion of 72 m ³ /s of discharge from the Kosi river by 16 km long tunnel to the Terai plain for irrigation, as well as hydropower generation utilizing the head available along the diversion route. This diverted discharge will enable perennial irrigation of farm land in the broad Terai plain (175,000ha), anticipated to raise farm productivity from the current 350,000 tons/year to 100,000 tons/year. Power would be generated utilizing head along the induction canal from the Sun Kosi (61,000kW) as well as at Kamla dam (32,000kW).					
7.OBJECTIVES OF STUDY Hydropower; irrigation		4.CONDITIONS AND DEVELOPMENT IMPACTS [Development impacts] (1) supply of abundant, low cost power (2) large scale irrigated Agricultural development and increased farm productivity through large scale irrigation (3) regional development through access road construction *1 Access road construction is scheduled to begin in 1994. *2 In 1993, funding arrangements were settled upon for implementation of Arun III (prime funding agency: World Bank). Tender was completed for access road construction at the end of 1993, with project completion scheduled for 2003.					
8.DATE OF S/W		5. TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION	
9.CONSULTANT(S) Chuo Kaihatsu Cor. Kokusai Kougyo Co., Ltd.		1) Training of 4 counterparts personnel on power development planning; 2) Supply and training in use of drilling equipment				①②	
10.STUDY TEAM No.of Members 22 Period Jun.1983-Mar.1985 (21 months)							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
12.EXPENDITURE							
Total 491,986 (¥000)							
Contracted 181,019							

和名 コシ河流域水資源開発基本計画

{M/P, Basic Study, Other}

PROJECT SUMMARY (M/P+F/S)

ASO NPL/S 201B/87

Compiled Mar.1990
Revised Mar.1994

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 checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		2.PROJECT COST					
Development Plan of Television Network		M/P 1)	Local Cost	Foreign Cost		(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. (FY1993 Overseas Survey) Sep.-Oct.1990 Installation of Pokhara and Harauda transmission stations total cost of 1.40 million NER. Nepalese Government budgeted. Nov.1993-Jan.1994 Installation of Namji, Sarangkot, Juleshor and Daune transmission stations. French Government assisted total cost of 14 million French Franc.	
3.SECTOR		(US\$1,000)	2)	3)			
Communications & Broadcasting/Broadcasting		FS 1)	41,700	5,900	35,800		
4.REFERENCE NO.		2)		3)			
5.TYPE OF STUDY		3)		3)			
M/P+F/S							
6.COUNTERPART AGENCY		3.CONTENTS OF MAJOR PROJECT(S)					
Nepal Television Corporation		<H/P> Some of the HMG of Nepal wants to deal with at once through television broadcasting are outlined as follows: (1) Prompt transmission of information to the people (2) Reinforced means of effective communication to the entire nation (3) Substantial and efficient school education (4) Improvement of agricultural techniques (5) Popularization of the idea of family planning (6) Popularization of the idea of health and hygiene (7) Reinforced campaign for conservation of forests (8) Promotion of understanding among races and among communities with different regions <F/S> Phase 1: - TV Broadcasting Centre including 3 studios is built in the capital, Kathmandu-Main transmitting station is built on Mt. Phulchowki. - 1 transposer station is built in the east Terai region as the 1st step towards service expansion in that region. Phase 2:-Construction of 1 transmitting station and 2 transposer stations in the east Terai region- 1 transposer station in the west Terai region - 1 studio is added to the Broadcasting Centre - Correspondent offices in the Terai region are each equipped with 3 sets of news gathering equipment. Phase 3: - Construction of 8 transposer stations in the west Terai and 1 transposer station in the east Terai - 1 outdoor broadcasting van is introduced. - Correspondent offices in the Terai and each equipped with 2 sets of news gathering equipment Phase 4: - 3 transposer stations and built in the west Terai - correspondent offices are equipped with the necessary sets of new gathering equipment.					
7.OBJECTIVES OF STUDY		Imp. Period: .1989-.1995					
Formation of a development plan of TV broadcasting network		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 18.60 EIRR2) -4.90 EIRR3)	FIRR1) 18.60 FIRR2) -4.90 FIRR3)	
8.DATE OF S/W		Feb.1987		Conditions and Development Impacts:			
9.CONSULTANT(S)		Integrated Technology Inc.		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				(FY 1993 Domestic Survey)			
No.of Members 24		Period Jun.1987-Mar.1988 (10 months)					
Total M/M		Japan	Field				
33.68		17.53	16.15				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
12.EXPENDITURE		5.TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION			
Total		128,937 (¥'000)		①②			
Contracted		99,420					
		1) OJT 2) Participation of counterparts in JICA training program					

和名 テレビジョン放送網開発計画

(M/P+F/S)

PROJECT SUMMARY (F/S)

ASO NPL/S 302/88

Compiled Mar.1986
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Nepal	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"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		Between Bardibas and Dhulikhel in the Central Development Region				
Sindhuli Road Construction Project		2.PROJECT COST			(Description) The Government of Nepal assigns top priority to this project among various trunk road projects, and is requesting Japanese grant aid. (FY1991 Overseas Survey) No additional information.	
		(US\$1,000)	1)	Total Cost		
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)			(FY1991 Overseas Survey) No additional information.	
Transportation/Fish Processing		- Construction of trunk road (155 km, two-lane, paved) connecting the East-West Highway in the Terai Plains and the Kathmandu region - The project is divided into two sections Section I: From Bardibas of the East-West Highway Bazar to Shindhuli Section II: Shindhuli Bazar - Khurkot - Nepalthok - Dhulikheli of Kodari Road - A operation & maintenance training center				
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS			2.MAJOR REASONS FOR PRESENT STATUS New government of Nepal has given high priorities to the development of road transport and drinking water facilities.	
5.TYPE OF STUDY						
6.COUNTERPART AGENCY		Yes		EIRR1) 9.60 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)		
Dept. of Road, Ministry of Works and Transport		Conditions and Development Impacts:				- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.
7.OBJECTIVES OF STUDY		Imp. Period: 1989-.2000		- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.		
Road improvement and construction		8.DATE OF S/W				- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.
Jul.1986		9.CONCONSULTANT(S)		- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.		
Nippon Koei Co., Ltd. Kokusai Kougyo Co., Ltd.		10.STUDY TEAM				- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.
No.of Members 21		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.		
Period Nov.1986-Jun.1988(20 months)		Traffic survey Geological survey				- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.
Total M/M		5.TECHNICAL TRANSFER		- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.		
98.80		Japan				- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.
40.20		Field		- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.		
58.60		12.EXPENDITURE				- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.
Total		406,657 (¥'000)		- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.		
Contracted		414,063				- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.
		OT on traffic survey and analysis, road engineering technology, etc.		- The project will contribute to the improvement of marketing agricultural products, especially increased producer price in Terai and decreased consumer price in Kathmandu concerning rice. - The project will provide the link from Kathmandu to Calcutta, promoting trade, and reduce the travel time. - The project will promote the development efforts along the way (e.g. construction of dams) - The indirect effects of the project are estimated to be US\$78 million.		
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和名 シンズリ道路建設計画

(F/S,D/D)

PROJECT SUMMARY (M/P)

ASO NPL/A 101/89

Compiled Mar.1991
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			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued																												
2. NAME OF STUDY	Integrated Rural Development Project in the Lumbini Zone	Gulmi, Arghakhanchi, Kapilvatsu and Marchawar area of Rupandehi district																																
3. SECTOR	Agriculture/General	2. PROJECT COST			(Description) F/S on Rajikduma Project is being conducted under Japanese technical assistance (1992.6-1993.9). (FY1991 Overseas Survey) The Government of Nepal plans to incorporate the proposals of the present study into the forthcoming 8th five-year plan, and hopes for a small team of JICA experts who will advise on the annual planning of the proposals. The Government plans to request the grant commitment for the project implementation.																													
4. REFERENCE NO.		(US\$1,000) <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%; text-align: center;">Total Cost</td> <td style="width: 33%; text-align: center;">Local Cost</td> <td style="width: 33%; text-align: center;">Foreign Cost</td> </tr> <tr> <td></td> <td style="text-align: center;">1) 136,000</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td></td> <td></td> </tr> </table>						Total Cost	Local Cost	Foreign Cost		1) 136,000				2)																		
	Total Cost	Local Cost	Foreign Cost																															
	1) 136,000																																	
	2)																																	
5. TYPE OF STUDY	M/P	3. CONTENTS OF MAJOR PROJECT(S)																																
6. COUNTERPART AGENCY	Ministry of Development of Planning Local Development	The master plan was formulated for 15 years from 1990 to 2005, and 33 projects of central government level and 137 projects of local government level were included in the plan. The proposed high priority development projects are as follows: <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Irrigation rehabilitation project</td> <td style="width: 33%;">Rajikdwa</td> <td style="width: 33%;">2,400 ha</td> </tr> <tr> <td>Rural road rehabilitation project</td> <td>Tansen to Tanqas</td> <td>75 km</td> </tr> <tr> <td>Rural water supply</td> <td>East-west highway to Sandikharka</td> <td>69 km</td> </tr> <tr> <td></td> <td>Banqanqa and Gajeda</td> <td>for 11,900 population</td> </tr> <tr> <td></td> <td>Material supply program</td> <td>for two districts of hill area</td> </tr> <tr> <td>Agriculture production promotion</td> <td>Improvement of agri.-extension services</td> <td>3 district offices</td> </tr> <tr> <td></td> <td>Ilaka service centre</td> <td>22 Ilakas</td> </tr> <tr> <td></td> <td>Veterinary service centre</td> <td>1-Regional centre</td> </tr> <tr> <td></td> <td></td> <td>3-District centre</td> </tr> <tr> <td></td> <td></td> <td>27-Ilaka</td> </tr> </table>			Irrigation rehabilitation project	Rajikdwa	2,400 ha	Rural road rehabilitation project	Tansen to Tanqas	75 km	Rural water supply	East-west highway to Sandikharka	69 km		Banqanqa and Gajeda	for 11,900 population		Material supply program	for two districts of hill area	Agriculture production promotion	Improvement of agri.-extension services	3 district offices		Ilaka service centre	22 Ilakas		Veterinary service centre	1-Regional centre			3-District centre			27-Ilaka
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7. OBJECTIVES OF STUDY	Formulation of the Master Plan for the Integrated Rural Development Project in the Lumbini Zone	centre Improvement of plan implementation Institutional improvement Central and																																
8. DATE OF S/W	Jun.1988	4. CONDITIONS AND DEVELOPMENT IMPACTS			2. MAJOR REASONS FOR PRESENT STATUS																													
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Hokkaido Engineering Consultants Co., Ltd.	M/P is formulated for 15 years from 1990 to 2005 in three stages. Basic concepts of M/P are Improvement of Agricultural Production, Improvement of Living Standard, Improvement of Infrastructures and Strengthening of Rural Development Support System and Institutions. The development plan is formulated to follow the stagewise development process based on not only yearly order but to fulfil the following targets at all administration levels: 1) Consolidation of development infrastructure provision and training, 2) Initiation of the induced development-gradual shifts to autonomous development, and 3) Realization of self-sustaining development. Project impacts: Farmers income will be increased twice of the present level by the projects, Rural road development will improve not only marketing of agricultural inputs and outputs but also to improve communication in culture and information, and to contribute to improve social welfare. Living standard, especially in hygienic condition will be improved by supplying clean domestic water. Strengthening plan implementation capacity of local government will realize self-sustaining continuous development.																																
10. STUDY TEAM	No. of Members 10 Period Sep.1988-Nov.1989 (15 months) <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"></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;">Total M/M</td> <td style="text-align: center;">21.32</td> <td style="text-align: center;">31.59</td> </tr> <tr> <td style="text-align: center;">52.91</td> <td></td> <td></td> </tr> </table>		Japan	Field	Total M/M	21.32	31.59	52.91																										
	Japan	Field																																
Total M/M	21.32	31.59																																
52.91																																		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Rural socio-economy. Groundwater survey.	5. TECHNICAL TRANSFER			3. PRINCIPAL SOURCE OF INFORMATION																													
12. EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%; text-align: center;">193,376 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Total</td> <td></td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">180,337</td> </tr> </table>		193,376 (¥'000)	Total				Contracted	180,337	Technology transfer to counterpart in the course of the study.																								
	193,376 (¥'000)																																	
Total																																		
Contracted	180,337																																	
					①②																													

和名 ルンビニ県農村総合開発計画

(M/P, Basic Study, Other)

PROJECT SUMMARY (M/P+F/S)

ASO NPL/S 202B/89

Compiled Mar.1991
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																		
1.COUNTRY	Nepal	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"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																																	
2.NAME OF STUDY	Development of Civil Aviation	The whole area of Nepal<M/P> Kathmandu, Pokhara, Jomsom, Simikot, Lukla, and Syangboche airports<F/S>																																						
3.SECTOR	Transportation/Air Transportaion & Airport	2.PROJECT COST (US\$1,000)		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"></td> <td style="width: 5%;">M/P 1)</td> <td style="width: 15%;">888,000</td> <td style="width: 15%;">Local Cost</td> <td style="width: 15%;">192,000</td> <td style="width: 15%;">Foreign Cost</td> <td style="width: 10%;">696,000</td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>FS 1)</td> <td>246,300</td> <td></td> <td>55,600</td> <td></td> <td>190,700</td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			M/P 1)	888,000	Local Cost	192,000	Foreign Cost	696,000		2)							FS 1)	246,300		55,600		190,700		2)							3)					
	M/P 1)	888,000	Local Cost	192,000	Foreign Cost	696,000																																		
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	FS 1)	246,300		55,600		190,700																																		
	2)																																							
	3)																																							
4.REFERENCE NO.		3.CONTENTIS 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. (FY1993 Overseas Survey) JICA has been conducting a study, "Kathmandu Airport Development Plan", since 1993.																																		
5.TYPE OF STUDY	M/P+F/S																																							
6.COUNTERPART AGENCY	Department of Civil Aviation, Ministry of Tourism																																							
7.OBJECTIVES OF STUDY	Over-all development of air transport system. Examination of the feasibility on the priority plans.	<M/P>1.Kathmandu International Airport Development Project: Construction of Domestic Passenger Terminal Building (3,200 sq.m) Expansion of Apron (B747 class x 4 spots, B757 class x 5 spots, etc.) Installation of Air Navigation System (MLS, etc) Construction of Cargo Terminal Building (27,000 sq.m) Construction of Maintenance Hangar (B767 class) 2.New Pokhara Airport Development Project: Runway 1,900m, Apron (B757 class x 1 spot, HS748 class x 1 spot) Terminal Building (1,000 sq.m), Air Navigation System (VOR/DME, etc.) 3. Runway extension at Jomsom and Simikot Airports Runway pavement and Apron expansion at Lukla Airport Runway relocation at Syangboche Airport <F/S>1. Kathmandu International Airport Project: a. Total floor area 3,200 sq.m, One and half level concept Annual passenger handling capacity 330 thousand 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 c. Installation of LLZ/DME, renewal of DVOR/DME, Renewal of Aeronautical ground lights. 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. 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																																							
9.CONSULTANT(S)	Pacific Consultants International																																							
10.STUDY TEAM		Imp. Period:		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">.1989-.1994</td> <td style="width: 15%;">.1990-.1994</td> <td style="width: 15%;">.1990-.1993</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table>		.1989-.1994	.1990-.1994	.1990-.1993																																
.1989-.1994	.1990-.1994	.1990-.1993																																						
No.of Members 8 Period Aug.1988-Sep.1989(14 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;">50.14</td> <td style="text-align: center;">31.49</td> <td style="text-align: center;">18.65</td> </tr> </table>		Total M/M	Japan	Field	50.14	31.49	18.65	4.FEASIBILITY AND ITS ASSUMPTIONS		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">EIRR1)</td> <td style="width: 15%;">19.70</td> <td style="width: 15%;">FIRR1)</td> <td style="width: 15%;">3.00</td> </tr> <tr> <td></td> <td>Yes/No</td> <td>EIRR2)</td> <td>2.10</td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> <td></td> </tr> </table>			Feasibility:	EIRR1)	19.70	FIRR1)	3.00		Yes/No	EIRR2)	2.10	FIRR2)				EIRR3)		FIRR3)												
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		EIRR3)		FIRR3)																																				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts: <Conditions><M/P,F/S> 1)Future Traffic Demand <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Annual</td> <td style="width: 15%;">passenger (1000)</td> <td style="width: 15%;">Annual</td> <td style="width: 15%;">cargo(ton)</td> </tr> <tr> <td>athmanqu</td> <td>2000</td> <td>1,234</td> <td>333</td> <td>69,000</td> </tr> <tr> <td></td> <td>2010</td> <td>1,946</td> <td>444</td> <td>138,000</td> </tr> <tr> <td>New Pokhara</td> <td>2000</td> <td>-</td> <td>80</td> <td>-</td> </tr> <tr> <td></td> <td>2010</td> <td>-</td> <td>108</td> <td>440</td> </tr> </table> 2) Financial assistance, Land acquisition are required. 3)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 Note: EIRR (%),Jomsom 13.1, Lukla 19.0, Simikot 9.6, and Syangboche 5.0 <Impacts><M/P,F/S> - Improvement of the functions and capacity of the airport facilities - Improvement of safety and punctuality of aircraft operations					Annual	passenger (1000)	Annual	cargo(ton)	athmanqu	2000	1,234	333	69,000		2010	1,946	444	138,000	New Pokhara	2000	-	80	-		2010	-	108	440										
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12.EXPENDITURE		5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS																																		
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">167,332 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>155,142</td> </tr> </table>		Total	167,332 (¥000)	Contracted	155,142			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																																
Total	167,332 (¥000)																																							
Contracted	155,142																																							
						3.PRINCIPAL SOURCE OF INFORMATION																																		
						①②																																		

和名 国内航空網整備計画

(M/P+F/S)

PROJECT SUMMARY (Basic Study)

ASO NPL/S 501/90

Compiled Mar.1992
Revised Mar.1994

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1.COUNTRY	Nepal	1.SITE OR AREA	Kathmandu valley			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Groundwater Management Project in the Kathmandu Valley	2.PROJECT COST				Total Cost	
3.SECTOR	Social Infrastructures/Water Resource Development		(US\$1,000)	1) 106,491	29,717	76,774	(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 Survey) 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/Maharajganj Project in the fiscal year of 1993. (FY1993 Overseas Survey) Phase I of the M/P ended. Phase II is under construction now and Phase III needs reviewing. Projects whose implementation order are from 3 to 8 requires revision. The Government proposed new projects, namely Kodkhu, Roshi and Melanchi, for JICA.
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)	Master Plan : 1994 - 2030 Stepwise implementation of systems for water supply facilities are summarized below in the order of an optimum implementation of schemes. Optimum Name of Scheme Project Cost (million US\$ in 1990) Implementation Order 1st Mahankal Chaur scheme 18.3 2nd Bansbari - Maharajganj scheme 15.4 3rd Shaibhu scheme 4.9 4th Balaju scheme 5.2 5th Lambagar scheme 11.3 6th Sundarijal scheme 15.6 7th Manohara scheme 18.7 8th Balkhu scheme 17.0 Total 106.5 The above schemes are classified into three categories according to the following basic concept which requires similar facilities for the schemes in the same category. Basic Concept Scheme 1) Water quality improvement Mahankal Chaur scheme, Bansbari - Maharajganj scheme 2) Rehabilitation of water treatment plant Shaibhu scheme, Balaju scheme, Lambagar scheme, Sundarijal scheme				
5.TYPE OF STUDY	Basic Study	7.OBJECTIVES OF STUDY				To evaluate the groundwater and other water resources for domestic use. To prepare optimum management of water resources.	
6.COUNTERPART AGENCY	Nepal Water Supply Corporation (NWSC)	8.DATE OF S/W	Sep.1988				
9.CONULTANT(S)	Nippon Koei Co., Ltd. Japan Engineering Consultants Co., Ltd.	10.STUDY TEAM				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.	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey; Geological borings; Waterwell drillings; Installation of water level gauges and rainfall gauges	12.EXPENDITURE	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.	

和名 カトマンス盆地地下水開発計画

[M/P, Basic Study, Other]

PROJECT SUMMARY (M/P+F/S)

ASO NPL/S 203B/92

Compiled Mar.1994
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																		
1.COUNTRY	Nepal	1.SITE OR AREA		Kathmandu Valley		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																																	
2.NAME OF STUDY Kathmandu Valley Urban Road Development		2.PROJECT COST (US\$1,000)		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"></td> <td style="width: 5%;">M/P 1)</td> <td style="width: 15%;">71,600</td> <td style="width: 10%;">Local</td> <td style="width: 10%;">25,000</td> <td style="width: 10%;">Foreign</td> <td style="width: 10%;">88,600</td> </tr> <tr> <td></td> <td>2)</td> <td>196,500</td> <td>Cost</td> <td>46,600</td> <td>Cost</td> <td>107,900</td> </tr> <tr> <td></td> <td>F/S 1)</td> <td>39,720</td> <td></td> <td>3,250</td> <td></td> <td>480</td> </tr> <tr> <td></td> <td>2)</td> <td>2,500</td> <td></td> <td>36,470</td> <td></td> <td>2,070</td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					M/P 1)	71,600	Local	25,000	Foreign	88,600		2)	196,500	Cost	46,600	Cost	107,900		F/S 1)	39,720		3,250		480		2)	2,500		36,470		2,070		3)			
	M/P 1)	71,600	Local	25,000	Foreign	88,600																																		
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	2)	2,500		36,470		2,070																																		
	3)																																							
3.SECTOR Transportation/Air Transportaion & Airport		3.CONTENTES OF MAJOR PROJECT(S)				(Description) - B/D of New Baqmati Bridge was done by JICA in 1993. Construction works will begin in Aug. 1994.																																		
4.REFERENCE NO.		<M/P> 1) Short-term Plan - Shuttle bus service of New Bus Terminal - Construction of Inner Ring Road (Baqmati, Bishnumoiti Corridors) - Bus access road improve - Construction of new baqmati Bridge 2) Long-term Plan - Inner Ring Road (North & South Sections) - Outer Ring Road																																						
5.TYPE OF STUDY								M/P+F/S																																
6.COUNTERPART AGENCY								Ministry of Works, Department of Road																																
7.OBJECTIVES OF STUDY		<F/S> 1) Construction of Baqmati corridor road including New Baqmati bridge 2) Improvement of Newbus terminal access road																																						
8.DATE OF S/W								Mar.1991																																
9.CONSULTANT(S)								Nippon Koei Co., Ltd. Japan Engineering Consultants Co., Ltd.																																
10.STUDY TEAM		Imp. Period: .1993-.1997 .1993-.1997		4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes/No EIRR1) 11.50 FIRR1) EIRR2) 18.80 FIRR2) EIRR3) FIRR3)																																				
No.of Members 8 Period Jul.1992-Mar.1993(0 months)		Conditions and Development Impacts: <M/P> - Production of through-traffic in the Central Area of Kathmandu - Improvement of bottleneck points in urban traffic - Relief of transportation-poor - Planned development of urban area <F/S> - Reduction of through-traffic in the central Area of Kathmandu - Accomodatin of Kathmandu-Patan traffic - Better access service to new bus terminal																																						
<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;">27.30</td> <td style="text-align: center;">13.40</td> <td style="text-align: center;">13.90</td> </tr> </table>		Total M/M	Japan	Field	27.30			13.40	13.90	2.MAJOR REASONS FOR PRESENT STATUS - New Baqmati bridge construction project will be implemented as Phase III works of Kathmandu Valley Bridge Improvement Plans.																														
Total M/M	Japan	Field																																						
27.30	13.40	13.90																																						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER <M/P> Method of Person Trip Survey in middle sized capital city. <F/S> Road/Bridge designing																																						
- Traffic Survey - Hydrological Survey																																								
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION																																						
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">201,065 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>187,876</td> </tr> </table>		Total	201,065 (¥'000)	Contracted	187,876																																			
Total	201,065 (¥'000)																																							
Contracted	187,876																																							

和名 カトマンズ都市交通計画

{M/P+F/S}

JICA