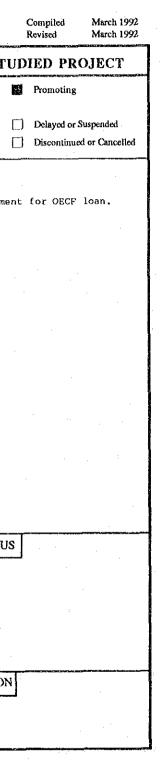
1. COUNTRY Indonesia	1. SITE OR AREA	Completed or
NAMES OF TAXABLE AND DESCRIPTION OF TAXAB		
2. NAME OF STUDY	Silau-Bunut Area in North Sumatra Province	1. PRSENT in Progress STATUS O Completed
Lower Asahan River Basin Development	2 DROTTOT COSTS US\$1.00=1,770Rupiah	O Implementing
	2. PROJECT COSTS Total Cost Local Cost Foreign Cost	O Processing
	1) 89,000 4,300 5,600 	(Description)
3. SECTOR	3)	Nadeu
Agriculture/ General	3. CONTENTS OF MAJOR PROJECT(S)	Under promotion in Indonesian Governm
4. REFERENCE NO.	1. Construction of an inter-basin water transfer canal from the Silau to the Bunun	
5. TYPE OF STUDY (M/P)+F/S	 2. Construction of an integrated diversion weir on the Silau 	
6. COUNTERPART AGENCY	3. Rehabilitation of 3 existing weirs on the Silau	
Directorate General of Water Resources	 60km rehabilitation and 110km construction of irrigation canal 	
Development (DGWRD)	5. Rehabilitation/New construction of drainage canal of 180km 6. Construction of farm road network (about 350km)	
7. OBJECTIVES OF STUDY	 Construction of on-farm facilities (about 9,500ha) Construction of flood protection dike (34km) 	
In-depth study on top priority project	or concentration of from protection wine (orkin)	
	Implementation Period: About 7 years including pre-construction works for 2.5 years	
	imprementation Ferrou.	
	4. FEASIBILITY AND EIRR FIRR	
8. DATE OF S/W Jul. 1984 9. CONSULTANT(S)	4. FEASIBILITY AND ITS ASSUMPTIONS 13.2%	
Nippon Koei Co., Ltd.	Feasibility:	
Nikken Consultant Co., Ltd.	Conditions and Development Impacts:	
Yachiyo Engineering Co., Ltd.	-Increase of job opportunity and rice production (about 109,300 tons)	
10. STUDY TEAM		
No. of Members 18	-Increase in farmer's income	2. MAJOR REASONS FOR PRESENT STATU
Period Jun.1989 - Jun.1990 (13 months)	-Improvement of marketing	
Total M/M 56.19	-EIRR = 13.2	
Japan 20,63 Field 35,56		
11. ASSOCIATED AND/OR		
SUBCONTRACTED STUDY		
	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATIO
12. EXPENDITURE	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION

和名
アサハン河下流域開発計画

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

I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT		
1. COUNTRY Indonesia	1. SITE OR AREA	1. PRSENT Completed or in Progress Promoting		
2. NAME OF STUDY	West Java Province, Java Island, Indonesia	STATUS Completed		
Bogor-Bandung Road Project		Implementing Delayed or Suspended		
	2. PROJECT COSTS Total Cost Local Cost Foreign Cost	O Processing Discontinued or Cance		
	1) 337,380 132,140 205,240 (US\$1,000) 2)	(Description)		
3. SECTOR	3)	The Indonesian Government has shown a strong interest in this F/S as a		
Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	countermeasure to the existing Puncak traffic congestion, and a spur to the lagging development in the neighboring Sukabumi region where the potential f		
4. REFERENCE NO.	 Widening of the existing 15km-long road connecting Puncak Pass with Jagorawi Toll Road. Project cost; US\$ 13 million. 	tourism and industrial activities is high. But at present the Government		
5. TYPE OF STUDY F/S	2) Construction of a new road that shall include the extension	and projects that will contribute to the stable and uniform development amou the country's regions and ensure a balanced investment policy amongst them.		
6. COUNTERPART AGENCY	of the Jagorawi Toll Road and link the main cities of West	Therefore, the tendency is that profitable projects should, as much as possi be executed applying the BOT method. However, in the case of road projects,		
Directorate General of Highways	Java Province; Cibadak, Sukabumi, and Cianjur. The new road, length 100m, shall terminate at the new	even if the F/S counfirms a high EIRR, the profits will be disseminated in t development effects, etc., resulting in a low FIRR. Therefore, in order to		
Ministry of Public Works	Cikampek-Padalarang Toll Road. Project cost is US\$ 324 million.	encourage the application of BOT method, it is necessary to improve the FIRR adopting favourable conditions for soft loan, taxation system, subsidies, etc		
7. OBJECTIVES OF STUDY		all combined.		
Development of road network to serve		Concerning the road widening projects, the low project cost suggests that it included in a regional road development package to be financed by Yen credit.		
increasing traffic demand and region development		F/S showed that even with soft loan FIRR is low and to promote BOT method ma issues must be resolved before construction, indicating a long delay in		
	Implementation Period; 1991 - 2010	issues must be resolved before construction, indicating a long delay in implementation.		
	A FEASIBILITY AND EIRR FIRR	Under these circumstances the Indonesian Government is presently considering whether to adopt the BOT method for this project.		
8. DATE OF S/W Nov. 14, 1988	4. FEASIBILITY AND EIRR FIRR ITS ASSUMPTIONS 17.88	Ministry of Public Works shall request the Engineering Services Loan of Japa		
9. CONSULTANT(S) Yachiyo Engineering Co., Ltd	Feasibility: 27% 8.8%	Government in 1992/93 fiscel year through BAPPENAS of Indonesia Economic Dev Authority.		
Oriental Consultants Co., Ltd.	Conditions and Development Impacts:	-		
Kokusai Kougyo Co., Ltd.	The traffic demand along the road linking two of West Java			
10. STUDY TEAM	Pronince's major cities, Bogor and Bandung, is very high. However, the present road network is poor, and the mixture of			
No. of Members 18	slow traffic related to daily activities of roadside settlements with the long-distance traffic along the only road	2. MAJOR REASONS FOR PRESENT STATUS		
Period Mar.1989 - Nov.1990 (2)	months) linking the new citles creates traffic congestions and slow travelling speeds. The potential of this project area, which			
Total M/M 65.5	is very close to Jakarta, are high in terms of tourism,			
Japan 15.0 Field 50.5	agriculture and industry, but the development has so far been slow. Furtermore, the project is necessary to meet the			
11. ASSOCIATED AND/OR	increased demand in the flow of people and goods between the two cities and their surrounding areas.			
SUBCONTRACTED STUDY				
-Traffic Survey -Geological Survey		A DRIVER AND A CONTRACT AND AND A STATE		
-Aerial Photographic Survey	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION		
12. EXPENDITURE	This Study was undertaken in close cooperation with the Indonesian Counterpart Team, and the relationship between high service level roads and regional development was th			
Total 295,047 (¥ Contracted 278,120	000) and the relationship between high service sever roads and regional development and the subject of examination and discussion at a seminar held in Jakarta at the close of the Study.			
和名 ボゴールーバンドン道路整備計画		{F/S, (M/P)+F/S, D/I		

ASE IDN/S 340/90		PROJECT SUMMARY (F/S)		Compiled March 1992 Revised March 1992
I. OUTLINI	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STU	JDIED PROJECT
1. COUNTRY	Indonesia	1. SITE OR AREA	1. PRSENT Completed or in Progress	Promoting
2. NAME OF STUDY	ĨĸĊĸ <u>ŢĸŢŢ</u> ŢĨĬĊĊĸĊĸĸĊŢĸĸŢŢĸŢŢŶĨĬĬĬĬĊĬĂĿĸĸĊŢĸŢŢĨĬĊŎĬĹĊĬŎŎĸĬĸĸĊŢŢŶĬĬĬĬĬĊĬ	South Kalimantan	STATUS O Completed	
Maintenance Dredging i of Banjarmasin Port	⊣ n the Access Channel	2. PROJECT COSTS Total Cost Local Cost Foreign Cost	Implementing Processing	Delayed or Suspended Discontinued or Cancelled
3. SECTOR	1	1) 51,100 14,100 37,000 (US\$1,000) 2)	(Description)	·
Transportation/ Port	1	3) 3. CONTENTS OF MAJOR PROJECT(S)		
		First-stage Plan aiming the year 1995 Comprehensive Plan aiming the year 2000		
4. REFERENCE NO.		A state of the second s second second se		
5. TYPE OF STUDY	F/S	Siltation counter measures: Both sides of the access channel Length: 11km (7km First-stage)		
6. COUNTERPART AGENCY		Effective planning and management of maintenance dredging		· ,
Directorate General of	E Sea Communication	Arrangement of navigational aids and procurement of pilot boat		
7. OBJECTIVES OF STUDY				
the access channel and and management of mair	itenance dredging	Implementation Period: 1993 - 2000		
8. DATE OF S/W	Nov.1987	4. FEASIBILITY AND EIRR FIRR ITS ASSUMPTIONS 13.2% 5.0%		
9. CONSULTANT(S)		Feasibility:		
The Overseas Coastal A Institute of Japan (OC Nippon Tetrapod Co., L	DI)	Conditions and Development Impacts: (First-stage) Without Case Channel Size : Depth/6m, Width/100m : Depth/6m, Width/100m		
10. STUDY TEAM]	Annual Maintenance : 5.1 million c.m : 3.5 million c.m	2. MAJOR REASONS FOR PRESENT STATU	5
No. of Members 13 Period Mar, 19	88 - Mar.1991 (37 months)	Dredging Volume Unit Cost		
Total M/M 159.0 Japan 84.4 Field 75.2	45	-Economic Price : 1.9 US\$/c.m : 1.9 US\$/c.m -Nominal Price : 0.7 US\$/c.m - : 0.7 US\$/c.m - 1.9 US\$/c.m 1.9 US\$/c.m (1996 - 2025) : (1996 - 2025)		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Geodeta Berlian Center p	-			
		5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION	1
12. EXPENDITURE Total Contracted	855,401 (¥'000)	 Seminarm in Indonemia Samil Scale Seminar: Once Samil Scale Seminar : Three times Training for the Survey Equipment : Two times Counterpart Training in Japan No. of counterparts : 2 persons Pariod : 11/138 - 12/1383 	0	

和名 バンジャルマシン港航路維持・浚渫計画

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

ASE IDN/A 312/90		PROJECT SUMMARY (F/S)		Compiled March 1992 Revised March 1992
1. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STU	IDIED PROJECT
1. COUNTRY	Indonesia	1. SITE OR AREA	1. PRSENT Completed or in Progress	Promoting
2. NAME OF STUDY		14,800ha on the Selagan River in kec. Muko-Muko Utara, Kab. Bangkulu Utara, Bengkulu Province.	STATUS Completed	
Air Selagan Irrigation	Project	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	O Implementing	Delayed or Suspended
		2. PROJECT COSTS Total Cost Local Cost Foreign Cost	O Processing	Discontinued or Cancelled
		1) 37,325 9,842 27,483 (US\$1,000) 2)	(Description)	
3. SECTOR		3)	The Provincial Government has decided	to apply to Japapeen
Agriculture/ General		3. CONTENTS OF MAJOR PROJECT(S)	Government for the OCEF Loan for the D	etailed Design and
4. REFERENCE NO.	r	The Project is mainly for irrigation and drainage to the paddy field 4,200ha and Plantation area, 2,750ha for oil palm and	the construction.	
. · · · · · · · · · · · · · · · · · · ·		corn in the existing and additional transmigration area and		
5. TYPE OF STUDY	F/S	included the following contents. (1) Construction of weir,		
6. COUNTERPART AGENCY		(2) Construction of irrigation and drainage facilities,(3) Construction of inspection roads and connecting roads,		
Directorate of Irrigation II, D Water-Resources Development, Mi		Construction of tertiary networks,		
7. OBJECTIVES OF STUDY	<u> </u>	(5) Reclamation of new farm lands,(6) Construction of 0 & M facilities and,		
To conduct a feasibili	J tv study on the	{7} Construction of small-scale hydro-power station,		
irrigation Project of	the Air Selagan area,			
about 23,000ha.		Implementation Period: 1991/92 ~ 1996/97		
8. DATE OF S/W	Feb. 1989	4. FEASIBILITY AND EIRR FIRR		
9. CONSULTANT(S)		ITS ASSUMPTIONS 12.78		
Japan Irrigation and	-	Feasibility:		
Reclamation Consult Nippon Koei Co., Ltd.	cants co., bru.	Conditions and Development Impacts: The Project is not only for irrigation and drainage for paddy		
	· · · · · · · · · · · · · · · · · · ·	cultivation and oil palm and corn plantation in the		
10. STUDY TEAM		transmigration area, but also for small scale hydro-power generation, flood protection work, domestic water supply, etc.	2. MAJOR REASONS FOR PRESENT STATU	e
No. of Members 10 Period Aug. 19	189 - Nov. 1990 (15	Therefore, it is especially necessary to pay the attention to the followings.		است
renod Aug. 19	169 - NOV. 1990 (15	(1) It is exrected that additonal transmigration is	To realize an economic stability of the to encourage the transmigration scheme	e farmers in the Area
Total M/M 40.9 Japan 16.9		implemented on schedule (2) Coordination among authorities concerned and among	self-sufficiency of rice in national i	level.
Field 23.9		related projects around the site. It is strongly expected that the Project is urgently		
11. ASSOCIATED AND/OR		implemented for the emergent transmigrants from Kedung Ombo in		т
SUBCONTRACTED STUDY Survey, Geological Invest	instion Soil Machanical	the Central Java especially.		
Tests, Installation of Hy	/droclimatological	n de la construcción de la constru Nacional de la construcción de la co	3. PRINCIPAL SOURCES OF INFORMATION	I .
Observation Equipments an Study	nd Environmental Assessment	5. TECHINCAL TRANSFER		J
12. EXPENDITURE		Provision of transfer of technology to Indonesian counterpart		
Total	148,867 (¥'000)	personnel in the course of the Study.		· · · ·
Contracted	143,474		Construction of the second	والبيانية المتحدث والمسيحة البري سنيت والمحافظ ومحمد المحاف المحاف والمستشفين

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和名 アイルスラガン灌漑開発計画

PROJECT SUMMARY (F/S)

I. OUTLI	NE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. P	RESENT STATUS OF STU
1. COUNTRY 2. NAME OF STUDY	Korea	I. SITE OR AREA Seoul	1. PRSENT STATUS	Completed or in Progress
Rapid Transit Line M Project in Seoul	No.2. Construction	2. PROJECT COSTS (US\$1=Won480) Total Cost Local Cost Foreign Cost		O Implementing O Processing
3.SECTOR Transportation/ Rail	lway	1) 385,000 269,000 116,000 (US\$1,000) 2) 3) 3. CONTENTS OF MAJOR PROJECT(S)) verseas Survey) e completion of the JICA study
4. REFERENCE NO. 5. TYPE OF STUDY	F/S	 New subway line (double track, 1,435 mm gauge, 24 km, 20 stops) Marshalling yard (capacity of 410 cars) Operation (fleet of 240 cars), daily service frequency of 	accordance Specifica the police	es decided to reroute the prop e with the urban development p lly, the subway was to be con y objective of alleviating the
6. COUNTERPART AGEN Economic Planning Ad Seoul Subway Author	gency	 430 cars) Electric equipment (direct current 1,500V, transformers at 6 locations, overhead transmission) Signals and telecommunication (automatic signals, telephones, wireless) 	population subway No construct	tion in the Gangpae Area by en n growth of the Gangnam Area. .2 was divided into four sect ion was completed in four stat ation-Sport Stadium (14.3km)
7. OBJECTIVES OF STUDY Technical and econor constructing a new 2 No.2 and related fac	mic evaluation of 24-km line of the Subway		Opened 2) Sp. St. Opened 3) Univ. Opened	in Oct, 1980 adium-Univ. of Education (5.5) in Dec. 1982 of EdSeoul Univ.(6.7km) in dec. 1983
8. DATE OF S/W	Oct.1976	Implementation Period: Dec.1978 - Dec.1983 4. FEASIBILITY AND EIRR ITS ASSUMPTIONS 17.6%	Opened Tatal cost Local cu Foreign	UnivNew Station (22.3km) in May 1984 t of contruction : W887.1 b urrency component : W805.7 b currency component: W 71.4 b
	Consultants, Pacific tional, and two other	Feasibility: Yes Conditions and Development Impacts: Conditions: - Demand projections are based on those done by KIST - The transit line will start partial operation before the	Ot The rout the one a of the Se findings	<pre>ich, Yen Loan W 15.8 b hers W 55.6 b e proposed by the JiCA study ctually constructed, but coin ctions 1) and 4) shown above. of the JICA study was utilize with some technical modific.</pre>
No. of Members 21		completion of the entire line - Fares will be increased from the present level	2. MAJOR R	EASONS FOR PRESENT STATUS
Period Apr. Total M/M Japan Field 11. ASSOCIATED AND/OR SUBCONTR ACTED STUI	1977 - Dec.1977 (8 months)	 Development impacts: The new line will stimulate the growth of the southern area of Seoul Alleviation of traffic congestion in the central and southern areas of Seoul Saving of travel time and reduction of transport costs 		
		5. TECHINCAL TRANSFER	3. PRINCIPA	AL SOURCES OF INFORMATION
12. EXPENDITURE Total Contract	103, 375 (¥'000)	Participation of counterparts in JICA training program	03	

和名 地下鉄2号線建設計画

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	Compiled levised	March 1983 March 1992
JDI	ED PRO.	JECT
	Promoting	
	Delayed or Sus Discontinued o	
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pose plar stru e po ncou Ac ion:	the Korean ed Subway I a for Seou Icted in 1 Opulation Iraging the cordingly s, and the , as shown	l. ine with e , the
km)		
cide Or d fo	ion ion ion	me parts rts, the
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ASO KOR/A 301 /78		PROJECT SUMMARY (F/S)	Compiled March 199 Revised March 199		
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT		
1. COUNTRY	Korea	1. SITE OR AREA	1. PRSENT Completed or Promoting		
2. NAME OF STUDY (Southwest Coast Agr		Kimpo, Sihwa, Hongbo, Puchang, Haenam	I. PKSEN1 in Progress including STATUS O Completed Delayed or Suspended		
Reclamation Project)		2. PROJECT COSTS Total Cost Local Cost Foreign Cost	O Processing [] Discontinued or Canceller		
3. SECTOR		1) 898,347 - (US\$1,000) 2) 720,661 - 3)	(Description)		
Agriculture/ General		3. CONTENTS OF MAJOR PROJECT(S) Kimpo SihwaA SihwaB Puchang Hongbo Haenam	(FY1991 Overseas Survey) The present statuses of the five reclamation sites examined by the JICA study are as follows.		
4. REFERENCE NO.		1. Reclam- tion(ha) 4,910 21,100 - 7,910 1,907 5,935	1. Kimpo : Completed in June 1989 by private investment 2. Sihwa : To be completed in Dec. 1994 mostly by public		
5. TYPE OF STUDY	F/S	tion(ha) 4,910 21,100 - 7,910 1,907 5,935 2. Tide 8 places 7 places 4 places 4 places 4 places 7 places Crest 12km 21.3km 2.6km 9.8km 2.6km 12.4km	 3. Haenam : To be completed in Dec. 1994 mostly by public 3. Haenam : To be completed in Dec. 1994 mostly by public 		
6. COUNTERPART AGENC	<u>Y</u>	3. Pumping Stations 1 10 10 9 9 12 4. Drainage - 4 3	investment 4. Hongbo : To be completed in Dec. 2001 mostly by public investment		
7. OBJECTIVES OF STUDY		5. Irrig. 9 canals 15 canals 15 canals 62 canals 6. Cost (billion wons) 23.4 217.1 131.7 94.3 35 64.4	5. Puchang: Compared with the other sites, the urgency is low. The project is temporarity on hold, but if it should be implemented, funding would come		
		7. Implemen- tation 3 yrs 5 yrs 5 yrs 4 yrs 4 yrs 4 yrs	mainly from the public sector.		
	er 1930 - Carlon State 1930 - Carlon State (1930)	Implementation Period: 3~5 years	At the time of the JICA study, the primary objective of the proposed reclamation schemes was in the increased produciton of paddy. Due to the subsequent socio-economic changes, the objective was diversified to include animal		
3. DATE OF S/W	Mar. 1976	4. FEASIBILITY AND EIRR FIRR ITS ASSUMPTIONS 8.758-12.758	husbandry, cash crops, and industrial development.		
P. CONSULTANT(S)		Feasibility:			
10. STUDY TEAM		Conditions and Development Impacts: This study is to investigate the results of related main projects (by Korean agency) among reclamation development projects in southwest seashore which are to be implemented, to			
A second s	(months)	conduct field investigation, and to exchange the view with the persons in charge in related agencies. As a result of the study, those projects in the specific five	2. MAJOR REASONS FOR PRESENT STATUS		
Total M/M Japan	1978 (1 month)	districts are effective and appropriate as a means to facilitate the gigantic master plan in southwest seashore belt.			
Field 1. ASSOCIATED AND/OR SUBCONTRACTED STUE					
JOBCONTRACTED STUD					
		5. TECHINCAL TRANSFER	- 3. PRINCIPAL SOURCES OF INFORMATION		
12. EXPENDITURE Total Contracte	11,556 (¥'000)		03		

和名 西南海岸干拓農地開発計画

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

PROJECT SUMMARY (M/P)

ASO KOR/S 101 /79	والمحفظ المعارضة والمحفول المحافظ والمحافظ والمحافظ والمحافظ والمحافظ والمحافظ والمحافظ والمحافظ والمحافظ والم		and and the second s
I. OUTLINE OF	STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF USE OF
1. COUNIRY Kor	ea	1. SITE OR AREA	1. PRSENT In Progress or In Use
2. NAME OF STUDY		10 damsites: Bamseonggol, Inje, Hongcheon, Ganhyeon, Gujeol, Dalucheon, Bonghwa, Imha, Hamyang, Juam	STATUS Delayed
Long-Term Multipurpose Dam	Schemes	2. COSTS OF	
		PROPOSED PLAN OR MAJOR PROJECTS Total Cost Local Cost Foreign Cost	(Description)
3. SECTOR		1)	(FY1991 Overseas Survey)
	tor Posourco	(US\$1,000) 2) 3. MAJOR PROJECT(S) PROPOSED	The current statuses of the ten dam site 2nd stage of the JICA study are as follo
Social Infrastructures/ Wa Development	tel Resource		1) Six sites considered feasible
4. REFERENCE NO.		In the 1st stage study, 24 damsites were investigated out of which 10 sites were selected as high in priority. In the 2nd	Bamseonggol: Implementation is difficult flooding and other negative consequences
5. TYPE OF STUDY M/	p	stage study, 6 dam schemes (Bamseonggol, Mongcheon,Dalucheon,Ganhyeon, Imha and Juam) were concluded as	Dalucheon: Time of implementation is not
6. COUNTERPART AGENCY		feasible.	Hongcheon: A construction plan with expe the year 2000 was prepared.
Water Resources Bureau, Mi Construction	nistry of		Ganhyeon: Time of implementation is not Juam: Completed in Dec.1991 with OECF fu
			million yen. Imha: Completed in Dec.1991 with OECF fo
7. OBJECTIVES OF STUDY			million yen.
Water resource development			2) Four sites which were considered not
	· .		of the study, but mingt be justified at Gujeol: Completed in 1991 by the Korean
			Corporation (the power plant located in Inje: Time of implementation is not spe
8. DATE OF S/W Jun	.1977	4. CONDITIONS AND DEVELOPMENT IMPACTS	Bonghwa: Time of implementation is not a Hamyang: F/S and D/D were completed, but
9. CONSULTANT(S)		The dam schemes have positive impacts on water supply,	schedule is yet undecided.
Nippon Koei Co.,Ltd. EPDC International Ltd.		irrigation, flood control and power generation.	
10. STUDY TEAM			2. MAJOR REASONS FOR PRESENT STATUS
No. of Members 25 Period Oct.1977 - 1	Sep.1979 (23 months)		2. MAJOR REASOND FOR TRESENT OF AT CO
m.1.1.6.1 00.2			
Total M/M 80.2 Japan 59.3			
Field 20.9 11. ASSOCIATED AND/OR			
SUBCONTRACTED STUDY			
		C TRANSPAR TO A MOTOR	
		5. TECHINCAL TRANSFER Transfer of knowledge to Korean engineers.	3. PRINCIPAL SOURCES OF INFORMATION
2. EXPENDITURE		Transfer of knowledge to horean anglinette.	03
and the second	227,221 (¥'000)		
	151,087		

和名 長期多目的ダム開発計画

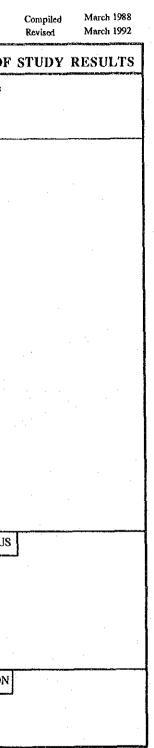
(M/P, M/P+(F/S), Basic Study, Other)

	Compiled Revised	March 19 March 19	
DF ST	rudy	RESUL'	ГS
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sites	examin	ed in the	
ollows		-	
nces i not s	n North pecifie	of possik Korea. d. letion in	
not sp F fund	ecified ling of	11,100	
F fund	ling of	6,975	
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I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF USE O
1. COUNTRY	Korea	1. STE OR AREA	
2. NAME OF STUDY		(Main Olympic Games site)	STATUS Delayed
Seoul Municipal Solid System	Waste Management	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS Total Cost Local Cost Foreign Co	Discontinued
3. SECTOR		(US\$1,000) 1) 13,258 13,258 2)	Followed by F/S.
Public Utilities/ Urba	n Sanitation	3. MAJOR PROJECT(S) PROPOSED	
4. REFERENCE NO.		See next page.	
5. TYPE OF STUDY	M/P+(F/S)		
6. COUNTERPART AGENCY Ministry of Science and	d Technology (MOST)		
7. OBJECTIVES OF STUDY Solid Waste Managemant	Plan		
	4		
8. DATE OF S/W	Nov.1983	4. CONDITIONS AND DEVELOPMENT IMPACTS	
9. CONSULTANT(S) Nippon Jogesuido Sekke	· · · · · · · · · · · · · · · · · · ·	This project is expected to improve living conditions and to establish an effective municipal solid waste management syste suitable to a modern city.	m
10. STUDY TEAM			
No. of Members 13	4 - Sep.1985 (16 months)		2. MAJOR REASONS FOR PRESENT STATU
Total M/M 109. Japan 45. Field 63.	5		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY			
		5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
······································		Use of local consultants for solid waste composition analysis	· · · · · · · · · · · · · · · · · · ·
12. EXPENDITURE Total Contracted	254,159 (¥'000) 309,821		

和名 ソウル特別市都市固形廃棄物整備計画

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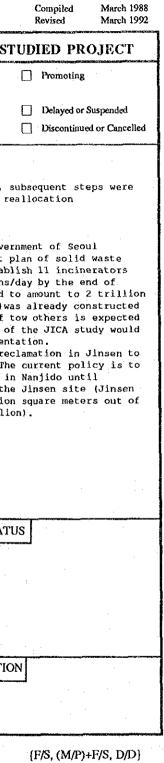


{M/P, M/P+(F/S), Basic Study, Other}

I. OUTLINE OF ST	FUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF S
1. COUNTRY Korea		1. SITE OR AREA	1. PRSENT Completed or in Progress
2. NAME OF STUDY			STATUS O Completed
Seoul Municipal Solid Waste M System	lanagement	2. PROJECT COSTS (US\$1=890 won) Total Cost Local Cost Foreign Cost	 Implementing Processing
		1) 13,258 13,258 (U\$\$1,000) 2)	(Description)
3. SECTOR	· · · · · · · · · · · · · · · · · · ·	3)	
Public Utilities/ Urban Sanit	cation	3. CONTENTS OF MAJOR PROJECT(S) Incinerator 3t/day	After the completion of the study, suspended because of the budgetary necessitated by the Olympic Games.
4. REFERENCE NO.		Transfer station 1,150t/day Final disposal site	(FY1991 Overseas Survey)
5. TYPE OF STUDY (M/P)	+F/S	Transportation system	In October 1991, the municipal gove
6. COUNTERPART AGENCY			announced its long-term development management, which envisages to estab
Ministry of Science and Techn	nology (MOST)		with a total capacity of 16,500 tons 1999. The total cost was estimated won. One incinerator (150 ton/day):
7. OBJECTIVES OF STUDY			in Mokudon, and the construction of to start during 1992. The finding of
Solid Waste Management Plan			be partly consulted for the implement The JICA study proposed the land re
		Implementation Period: May 1987 - Aug. 1988	establish a final disposal site. The utilize the existing disposal site Nov.1992, and then to transfer to the City is already using about 4 millio
8. DATE OF S/W Nov. 19	983	4. FEASIBILITY AND EIRR FIRR	the total available area of 20 mill
9. CONSULTANT(S)		- ITS ASSUMPTIONS	
Pacific Consultants Internati		Feasibility: Yes	
Nippon Jogesuido Sekkei Co.,L		Conditions and Development Impacts:	
		An efficient solid waste management system is indispensable for the rapidly growing City of Secul.	
10. STUDY TEAM		The existing disposal site at nanjido is open dumping and unhygienic and the capacity has already been exhausted. A new,	
No. of Members 13 Period Jun.1984 - Sep.	.1985 (16 months)	sanitary landfill disposal site need be located in Jinsen.	2. MAJOR REASONS FOR PRESENT STAT
Total M/M 109.0 Japan 45.5			and and a second se Second second
Japan 45.5 Field 63.5			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	· · · · · · · · · · · · · · · · · · ·		
	· · · · · ·	$\frac{1}{2} = \frac{1}{2} \left[\frac{1}{2} \left[$	
		5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATI
12. EXPENDITURE		OJT: Seminar by specialized field	13
Total 254	,159 (¥'000) ,821		

和名 ソウル特別市都市固形廃棄物整備計画

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I. OUTLINE	OF STUDY	II. SUM	MARY OF STUDY RESULTS	III. PRESEN	T STATUS OF USE OF	STUDY RESULT
1. COUNTRY	Laos	1. SITE OR AREA		1. PRSENT	In Progress or In Use	
2. NAME OF STUDY	an y y y y y y y y y y y y y y y y y y y	City of Vientiane	(52 sq.km)	STATUS	Delayed	
Improvement of Drainag	e System in Vientiane	2. COSTS OF			Discontinued	· · · · ·
		PROPOSED PLAN OR MAJOR PROJECTS	Total Cost Local Cost Foreign Cost			
3. SECTOR		(US\$1,000)	1) 75,452	A feasibilit in the same	y study was conducted for th study. The Priority Area cov	e Priority Project ers the central
Social Infrastructures Control	/ River & Erosion	3. MAJOR PROJECT(S)	PROPOSED	city, where	frequent flooding occurs er to the next page.)	
4. REFERENCE NO.		 A Master Plan of s area 	storm water drainage for the entire study		seas Survey>	
5. TYPE OF STUDY	M/P+(F/S)	- Selection of Prior	ity Project	No additiona	al information.	· · ·
6. COUNTERPART AGENCY						· •
Municipality of Vienti	ane					
7. OBJECTIVES OF STUDY		And the second second			•	
To prepare a Master Pl drainage	an of storm water					
······································						
8. DATE OF S/W	Dec.1988	4. CONDITIONS AND I	DEVELOPMENT IMPACTS			
9. CONSULTANT(S)	<u></u>	1	nage willbe improved and inundation damage			. · · · · ·
Nippon Koei Co.,Ltd. Mitsui Consultants Co.	.Ltd.	in the Study area wi				
		 March 1997 And Decomposition 				
]			·	
10. STUDY TEAM					CONTRACTOR DE DE DE DE LE	······································
No. of Members 11 Period Mar. 198	9 - Mar.1990 (13 months)			2. MAJOR REA	SONS FOR PRESENT STATUS	
Total M/M 57. Japan 33.	7					
Field 23. 11. ASSOCIATED AND/OR	7					
SUBCONTRACTED STUDY						
Water quality analysis Mi						
Quality Soil and geote Construciton, Material	conficat analysis Min. Of	5. TECHINCAL TRANS		3. PRINCIPAL	SOURCES OF INFORMATION	
and the second		Counterpart officers	s participated in the Study.	(1)(2)		

1名 ヴィエンチャン排水網整備計画 — 191 — 和名 ヴィエンチャン排水網整備計画

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

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I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STU
1. COUNTRY Laos	1. SITE OR AREA	1. PRSENT
2. NAME OF STUDY	Hong Ke System,Nam Pasak System etc	I. PRSENT in Progress
Feasibility Study on Improvement of Drainage System in Vientiane	2. PROJECT COSTS Total Cost Local Cost Foreign Cost	O Implementing O Processing
3. SECTOR	1) 13,237 5,268 7,969 (US\$1,000) 2) 3)	(Description)
Social Infrastructures/ River & Erosion Control	3. CONTENTS OF MAJOR PROJECT(S) (1) Bong Ke System	The Government of Lao PDR submitted the for Japanese grant aid in Feb. 1991.
4. REFERENCE NO.	Main drainge facilities recommended are as follows: a. Rong Chanh retarding basin; storage volume 120,000 cu.m.	<pre><fy1991 overseas="" survey=""> No additional information.</fy1991></pre>
5. TYPE OF STUDY (M/P) +F/S	b. Bong Thong storage canal: storage volume 16,000 cu.m. c. Khoa Khao storage canal: storage volume 32,000 cu.m.	no aggitional information.
6. COUNTERPART AGENCY	- d. Hong Ke Canal: maximum design discharge 58.1 cu.m/sec. (2) Ham Pasak System	
Municipality of Vientiane	Main works are to improve Ham Pasak canal and to construct short-cut canal (1,140m) (3) Hong Kai Keo System Main drainage facilities recommended are as follows: a. Hong Kai Keo canal: maximum design discharge (downstream) 23.5 cu.m/sec.	
7. OBJECTIVES OF STUDY	b. Nong Bon regarding basin: storage volume 50,000 cu.m. 5 In addition to the above, the construction of canal (total length 1,800m) is	
To prepare F/S on Priority project	recommended.	
	Implementation Period: 1992 - 1994	
8. DATE OF S/W Dec. 1988	4. FEASIBILITY AND EIRR FIRR ITS ASSUMPTIONS 7, 35	
9. CONSULTANT(S)		
Nippon Koei Co.,Ltd. Mitsui Consultants Co.,Ltd.	Feasibility:	
MILSUI CONSULTANUS CO., Etd.	Conditions and Development Impacts: The design storm for the main canals was 1/10 and 1/2 for leteral canals	
10. STUDY TEAM	Improvement for the main canals and a part of leteral canals in the inudation area inside the city, and construction of a	
No. of Members 11 Period Mar. 1989 - Mar. 1990 (13 months)	retarding basin	2. MAJOR REASONS FOR PRESENT STATUS
Total M/M 57.4 Japan 33.7 Field 23.7		Municipality of Vientiane places a high project among the on-going projects.
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		
	5. TECHINCAL TRANSFER	- 3. PRINCIPAL SOURCES OF INFORMATION
12. EXPENDITURE	Counterpart officers participated in the Study for technical	02

和名 ヴィエンチャン排水網整備計画

	Compiled Revised	March 1991 March 1992
UD	IED PRO	JECT
鬫	Promoting	
	Delayed or Su Discontinued	
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ASO LAO/ 301 /89	PROJECT SUMMARY (F/S)	Compiled Revised March 199
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I. COUNTRY Lao PDR	1. SITE OR AREA	1. PRSENT Completed or Promoting
2. NAME OF STUDY	Saythany and Saysetha Districts of Vientiane Municipality	STATUS O Completed
gricultural and Rural Development uburbs of Vientiane	2. PROJECT COSTS	ign Cost
SECTOR	1) 29,077 2,998 (US\$1,000) 2)	26, 529 (Description)
	3)	-Aug. 2, 1990 E/N for Phase I
Agriculture/ General	3. CONTENTS OF MAJOR PROJECT(S) 1. Irrigation and drainage	-Aug. 2, 1990 E/N for Phase I (1,074 million yen) signed -Jul. 3, 1991 E/N for Phase II
. REFERENCE NO.	a. Main pump station: Discharge 4.86 cu.m./sec.	(688 million yen) signed
TYPE OF STUDY F/S	b. Regulation pond: Storage capacity 110,000 cu.m c. Handreach: 11.4km d. Main irrigation canal: 19.3km	mA grant aid in FY1992 is scheduled,
. COUNTERPART AGENCY	e. Secondary irrigation canals: 20.8km	
Ministry of Agriculture and Fores	ry f. Drinage canals: 39.4km g. On-farm works: 880ha	
OBJECTIVES OF STUDY	2. Rural infrastructures a. Road: 6.7km	
Formation of a plan for the irrig drainage and infrastructure developroject		
. DATE OF S/W Mar. 1988	4. FEASIBILITY AND EIRR FIRR	
CONSULTANT(S)	ITS ASSUMPTIONS 11.06%	
Dippon Koei Col, Ltd. Constructon Project Consultants, 1	Feasibility:	
,	Conditions and Development Impacts: Conditions:	
0. STUDY TEAM	Economic evlauation was made onoy for the irrigation and drainage development plan. The difference of net profi	it
No. of Members 9 Period Aug, 1988 - Jun 1989	between with and without project conditions were the ma of the benefit.	ain part 2. MAJOR REASONS FOR PRESENT STATUS
Total M/M 33.41	Inputs: Foreign currency saving and earning through import subs	stitution
Japan 9.37 Field 24.04	and export expansion; an increase in employment opportu providing drinking water; stimulate the rural economy.	
I. ASSOCIATED AND/OR SUBCONTRACTED STUDY		
	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
2. EXPENDITURE	Technology transfer of the methodology of F/S to the	
Total101,591Contracted96,727	(¥'000) counterpart personnel	

和名 首都郊外農村開発計画調查

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		PROJECT SUMMARY (F/S)		Compiled March 1992	
ASO LAO/S 301/90				Revised March 1992	
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF	STUDIED PROJECT	
1. COUNTRY	Laos	1.SITE OR AREA Vientiane Municipality, Xaythani destrict	1. PRSENT Completed or in Progress	Promoting	
2. NAME OF STUDY Thae Ngon Bridge Cons	truction Project	(1200 sq.km, habitant 79000)	STATUS O Completed	Delayed or Suspended	
The agon bridge cons		2. PROJECT COSTS Total Cost Local Cost Foreign Cost	O Processing	Discontinued or Cancelled	
		1) 15,353 4,943 10,410 (US\$1,000) 2)	(Description)		
3. SECTOR		3)			
Transportation/ Gener	al	3. CONTENTS OF MAJOR PROJECT(S) Bridge	Since the study was completed, I request of Japanese Grant Aid for Government of Japan through the J	the Project to the	
4. REFERENCE NO.		Foundation: Multi-column foundation by reverse circulation drill method concrete pile	vientiane, in February 1991. Since January 1990, ferry operat		
5. TYPE OF STUDY	F/S	Bridge Type: 5 span post-tensioned conrete T-girder Dimension: Bridge length 230m, span 45,060m, total width 11m,	difficulties because the break do	own if its parts. October	
6. COUNTERPART AGENCY	7	carriage width 7.5m, sidewalk 2.5m (upper stream side only) Approach Road	1991, operation of this ferry is accordance with information by or	ne of the staffs of	
Department of Communi Construction	cation, Transport, and	Total Length: 3,350m Dimension: Total width 9.0m, carriage width 5.0m, shoulder width 1.5m x 2 (sealed by SBST)	Vientiane Municipality. Thus Lac Municipality are expecting implem soon.		
7. OBJECTIVES OF STUDY		Pavement: Subbase course 20cm, base course 15cm, surface DBST,	<fy1991 overseas="" survey=""></fy1991>		
Feasibility Study of Tha Ngon Bridge		subgrade 30cm (if required)	At the site suggested for the bridge construction, a pump station is now under construction by Japanese grant		
		Implementation Period: Dec.1993 - Jan.1997	(Agricultural and Rural Developme of Vientiane). The alternative be be identified before its implement	location of thebirdge must	
A DATE OF SAV		4. FEASIBILITY AND EIRR FIRR			
8. DATE OF S/W 9. CONSULTANT(S)	Sep.1989	ITS ASSUMPTIONS			
Construction Project	 Consultants, Inc.	Feasibility: Yes			
		Conditions and Development Impacts:			
		Conditions: Traffic growth rate: 1990-200 11.1%, 2001-2010 9.4%,			
10. STUDY TEAM		2010- 6.4% Capacity of Existing Ferry Boat: 600/ADT (exclude motorcycle)			
No. of Members 7		Estiamted ADT: N. cycle-224, P. car-60, L. truck-66, H. bus-18, Total 479-unit	2. MAJOR REASONS FOR PRESENT S	TATUS	
·	990 - Jan.1991 (13 months) 34	VOC and Time Cost (time saving cost) with and without project 1s compared as economic benefit.	Several Grant Aid projects are o Moreover, projects which feasibi	lity study has been	
Japan	19	Development Impacts: Following impact are expected	completed are waiting impelementa Aid.	ition with Japan's Grant	
11. ASSOCIATED AND/OR	15	-Save vehicle operation cost -Increase agricultural production and decrease its transportation cost and time	The Government of Japan (Minist) evaluating the project whether it		
SUBCONIRACTED STUDY		-Improve tourism and its route -Accelerate implementation of planned regional development			
		project on left side bank of Nam Mgum River 5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORM	ATION	
			02		
12. EXPENDITURE Total Contracted	116,958 (¥'000) 103,935	-On the job training -Technical presentation -Distribution of Bridge Design Manual			

和名 タゴン架橋計画

I. OUTLINE OF	STUDY	II. SUMMARY OF STUDY RESULTS	III. P	RESENT STATUS OF	STUDIED PROJ	JECT
	laysia	1. SITE OR AREA	1. PRSENT	Completed or	Promoting	0-600-000 C
2. NAME OF STUDY	الم 2012 - معرف من المركز المركز 1.	Ocean Area Between Kuantan, Pahan in Peninsula Malaysia & Kuching, Sarawak	I. FRSENT STATUS	in Progress		
Kuantan-Kuching Submarine (Cable Project		UTIL OF	O Implementing	Delayed or Sus	pended
	at set that the set	2. PROJECT COSTS Total Cost Local Cost Foreign Cost		O Processing	Discontinued o	r Cancel
	: · · ·	1) 33,301	(Description	3)	and the second	
3. SECTOR	a na har iyo yaya a sa ka s	- (US\$1,000) 2) 3)				
Communications & Broadcast: Telecommunication	ing/	3. CONTENTS OF MAJOR PROJECT(S)		Agreement was concluded h in June, 1979. (Loan amour		
4. REFERENCE NO.		Construction of Submarine Cable System between the Peninsula Malaysia and Kuching, Sarawak in East Malaysia.	-The east-	-west Malaysia submarine d	cable system was	
and a subscription of the			constructe	ed by Japanese companies & cable system in 1980.	by using Japanese	coaxi
	· · · · · · · · · · · · · · · · · · ·	Contents: Constraction of Submarine Cable System between Cherating, Kuantan and Sematau, Kuching	SUDMarine	cable system in 1960.		
6. COUNTERPART AGENCY		Distance: 855.3km				
Jabatam Telekom Malaysia		No. of Capacity: 1.000 voice grade circuits				
7. OBJECTIVES OF STUDY	······································					
$r_{\rm eff} = 1$ and $r_{\rm eff} = 1$		1 1 1	-			2
		Implementation Period:	1		. *	
		4 FEASIBILITY AND EIRR FIRR				
	.1977	4. FEASIBILITY AND EIRR FIRR ITS ASSUMPTIONS				
9.CONSULTANT(S) Kokusai Denshi Denwa Co., I	td	Feasibility: Yes				
Sanyo Hydorgraphic Survey (o., Ltd.	Conditions and Development Impacts:				
		Conditions: (1) Construction work should be completed by 1979.				
10. STUDY TEAM	· · · · · · · · · · · · · · · · · · ·	(2) Exemption of import Tax of Malaysia		· · · · · · · · · · · · · · · · · · ·		
No. of Members 7	· · · · ·	Development Impacts: It is fully expected to have effects on	2. MAJOR R	EASONS FOR PRESENT STA	TUS	
Period Aug.1977 - M	ar.1978 (7 months)	economic growth of Malaysia and regional development in Sabah, Sarawak states.		· · · · · · · · · · · · · · · · · · ·		
Total M/M						
Japan Field	·					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					· .	•
SUBCOMMACTED STUDT						
			2 DRINCIP	AL SOURCES OF INFORMAT		
		5. TECHINCAL TRANSFER	ļ	1. OVORCED OF THE OWNER		
12. EXPENDITURE		OJT: 3 trainner on how to carry out the submarine survey	l (l)			
	107,229 (¥'000) 50,666					
L				and a second second Second second second Second second		

I. OUTLIN	NE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF USE OF
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT In Progress or In Use
2. NAME OF STUDY	Na The Barling of The Real And	Northwest shore area of Malay Peninsula and Province Wellesley including industrial area facing to Penang	STATUS Delayed
Sewerage and Drainag Butterworth/Bukit Me	e System Project: rtajam Metropolitan Area	2. COSTS OF (US\$1=2.5M\$) PROPOSED PLAN OR MAJOR PROJECTS Total Cost Local Cost Foreign Co.	st (Description)
3. SECTOR		(US\$1,000) 1) 495,012 404,784	F/S executed by JICA, then D/D and S/V w local finance.
Public Utilities/ Se	werage	3. MAJOR PROJECT(S) PROPOSED	
4. REFERENCE NO.		To improve sewerage and drainage control facilities in the are facing to Penang island	a
5. TYPE OF STUDY	M/P+(F/S)	-Sewerage facilities:	
6. COUNTERPART AGENC	Y	Separate type (including industrial wastewater), main sewers,	
Ministry of Health		branch sewers, pumping stations, treatment plans (lagoon)	
		-Drainage facilities: for storm water control by open channels and control pond,	
7. OBJECTIVES OF STUDY	1	design channels with the 2- or 5-year storm return period in Butterworth and Bukit Mertajam urban area, 2 control ponds in	
(sewerage and draina	mental protection plans ge control) in ndustrial development	Butterworth area design control ponds in undeveloped area with the 10-year storm return period.	
8. DATE OF S/W	Jun.1976	4. CONDITIONS AND DEVELOPMENT IMPACTS	
9.CONSULTANT(S) Nihon Suido Consulta	nts Co., Ltd.	Although it is difficult to scale the economic merits of the project, decrease in epidemic diseases of digestive organs wil	1
		result in the increase in workload, and decrease in medical expenses. Also water pollution control and flood control are expected. Combined systems is adopted in some areas using	
10. STUDY TEAM		existing drains while most of areas are by separate system. The most simplified system, minimum number of pumping station	
No. of Members 16		and lagoon system as a treatment plant, is considered for economical and simple operation/maintenance. For drainage	2. MAJOR REASONS FOR PRESENT STATUS
Period Oct.1	976 - Feb.1979 (28 months)	system, existing drains are used, and storage/control ponds an reclamations are recommended for flood control.	d
	11.0		
-	56.9 54.1		
11. ASSOCIATED AND/OR SUBCONTRACTED STUD	v		
SUBCONTRACTED STUD	11 Jan 19		
		5. TECHINCAL TRANSFER	ALA STRANCIPAL SOURCES OF INFORMATION
		1) The training program for 3 people for 3 months was effectively carried out inclu- visit/inspection and lectures.	
2. EXPENDITURE	<u> </u>	 Training through preparation of reports: parts of reports are prepared in coope trainees during training period. 	ration())th

和名 ペナン州下水道・排水計画

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Compiled March 1986 Revised March 1992
STUDY RESULTS
were carried out by
3

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

I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STU
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT Completed or in Progress
2. NAME OF STUDY	ــــــــــــــــــــــــــــــــــــ	Butterworth & Bukit Mertajam Metropolitan Area	STATUS Completed
Sewerage and Drainage S Butterworth/Bukit Merta	Gystem Project: ajam Metropolitan Area	2. PROJECT COSTS (US\$1=2.5M\$) Total Cost Local Cost Foreign Cost	O implementing O Processing
	e a at	1) 14,200 11,800	(Description)
3. SECTOR		(US\$1,000) 2) 3)	
Public Utilities/ Sewer	rage	3. CONTENTS OF MAJOR PROJECT(S) Contents Size	 - D/D was completed on the Butterworth / area in May 1981. The first phase of completed by local finance.
4. REFERENCE NO.		-Study Area 1,100ha (sewerage)	-Phase 2 - 5 will be implemented during
5. TYPE OF STUDY	(M/P)+F/S	3,500ha (drainage)	Development plan.
6. COUNTERPART AGENCY	مېرى مىڭى ئىلىكى تەكەر _{ىلى ق} ىلىكى تەرىپ ^{ىل} ىنىتىن تەكەر بىلىغۇر قىلىكى تەكەر تەكەر تەكەر تەكەر <u>تەكەر تەكەر تە</u> كەر تە	-Sewer pipes d225mm-d900mm, L=55,100m -Pumping station 8 stations (q=1~23cu.m/min)	-D/D was conducted on the drainage in P
Ministry of Health		-Treatment plant 3 plants (stabilization pond) {Q=10,000~14,000cu.m/d) -Drainage facilities	implemention was suspended because of
7. OBJECTIVES OF STUDY			
F/S on sewerage and dra proposed area to prepar engineering design		Implementation Period: 1980 - 1985	
8. DATE OF S/W	Jun.1976	4. FEASIBILITY AND EIRR FIRR ITS ASSUMPTIONS	
9. CONSULTANT(S)		Feasibility: Yes	
Nihon Suido Consultants	; Co., Ltd.		
		Conditions and Development Impacts: Establishments of sewerage system plan and drainage control plan are based on the M/P.	
10. STUDY TEAM		Sewerage and drainage plans established for the target year of 2000.	
No. of Members 19	6 Tab 1070 (29 monthal	Although the economical merit by the development of plans can	2. MAJOR REASONS FOR PRESENT STATUS
Period Oct.197 Total M/M 111.0 Japan 56.9 Field 54. 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	9	not be scaled, the reductions of flood damages during the storm season and control of water pollution by wastewaters from the proposed area, especially from industial district, can be expected. Decrease of expenses for present night soil treatment systems will also be the one of essential merit.	 Botter economic condition: the economic condition of the 20's uben F/S propared was comparably stable, however, since 300, project Galaysed due to delicit of bodget. Priority: activity of the consumer's association for the water pollution control minds the assue paper reported with requard to the water pollution by industrial waterwaters. Adjacent to the tourist spot of Panang inland. Organistion for execution: controlled by Mr. Setaran of tinistry of Health in collaboration with the president of MrSF istate of project site).
anna an tha ann an tha			
		5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
12. EXPENDITURE Total Contracted	334,901 (¥'000) 315,997	1)Carried out a training program in Japan for 3 enginnering staff for 3 months, preparing project reports in cooperation with our engineers. (Including site inspections)	

和名 ペナン州下水道・排水計画

Compiled Revised	March 1986 March 1992
TUDIED PRO	DJECT
Promoting	
Delayed or S	Suspended d or Cancelled
h / Bukit Mert of constructio	ajam m was
ring the Sixth	Five Year
in Pulai but th of lack of fur	ie Id.
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I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY F	
1. COUNTRY	Malaysia	1. SITE OR AREA	n a frankrigen en fan en fan de fan en fan de fa In de fan en fan de f	1. PRSENT	In Progress or In Use
2. NAME OF STUDY		Trengganu swamp i Malaysia (about	Area on the eastern part of Peninsula 600sq.km)	STATUS	Delayed Discontinued
Trengganu Swamp Area Development	Integrated Agricultural	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS	US\$1=2.2M\$ in 1980 Total Cost Local Cost Foreign Cost	(Description)	
3. SECTOR		(US\$1,000)	1) 219,500 87,800 131,700	some distri	stricts which were proposed in the mast icts easy of access have been developed
Agriculture/ General		3. MAJOR PROJECT(S		sparing the	ever, those districts are developed by peir own funds on a small scale and in u
4. REFERENCE NO.			ct, which are expected to be highly roposed integrated agricultural development,		the Japanese Government sent an expert
5. TYPE OF STUDY	M/P+(F/S)	were selected out o	f 47 swampy districts in the area. opment area: 32,210 ha (the total of 24	irrigation Goverment.	and drainage upon request of the Mala
6. COUNTERPART AGENCY	/	districts).	cludes irrigation, fisheries, sericulture,		
Land Development Auth Trengganu Development	ority, Central Authority (KETENGAH)		and reclamation/immigration.		
7. OBJECTIVES OF STUDY					
and a second			n an		
8. DATE OF S/W	Feb.1978	4. CONDITIONS AND	DEVELOPMENT IMPACTS		
9. CONSULTANT(S) Taiyo Consultants Co.], Ltd.	of which is engaged population manage t poor. Reclamation of the agricultural lands	e has a population of 500 thousand, a half in agriculture. Most of those agricultural heir small farms and 80 percent of them are swamp area is expected to expand and develop livestock industry, sericulture		
10. STUDY TEAM No. of Members 10		and fisheries, as w	ell as to create employment opportunities.	2. MAJOR RE	ASONS FOR PRESENT STATUS
Period Jun.1 Total M/M 100 Japan 45	979 - Feb.1980 (9 months) .30 .30 .00			The policie	es of the Malaysian Government which do loan from the outside to develop agricu
11. ASSOCIATED AND/OR SUBCONTRACTED STUD	<u>,</u>				
Soil Analysis		5. TECHINCAL TRAN	SEEB A		
			rainees for in-service training in Japan.	3. PRINCIPAL	SOURCES OF INFORMATION
12. EXPENDITURE Total	226,358 (¥'000)		chniques on soil surveys and chemical/physical I samples through the joint surveys with counterpart a.	0	
Contracted	209,427				· · · · · · · · · · · · · · · · · · ·
和名 トレンガヌ沼沢地	農業総合開発計画				(M/P, M/P+(F/S), Basic S
			-198-		

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

ASE MYS/A 2018/79		PROJECT SUMMARY (M/P + F/S)		Compiled March 1990 Revised March 1992	
I. OUTL	INE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT		
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT Completed or in Progress	Promoting	
2. NAME OF STUDY		A part of the Trengganu swamp area (about 3,000ha)on the eastern Peninsula Malaysia	STATUS O Completed	Delayed or Suspended	
Trengganu Swamp Are Development	ea Integrated Agricultural	2. PROJECT COSTS US\$1=2M\$ as of 1979 Total Cost Local Cost Foreign Cost	O Implementing O Processing	Discontinued or Cancelled	
3. SECTOR		1) 20,200 7,900 12,300 (US\$1,000) 2)	(Description)		
Agriculture/ Genera]	3)	The malaysian Government has given	a top priority to this	
Addiculture/ Genera	al	3. CONTENTS OF MAJOR PROJECT(S) Land recalmation 2,100 ha	project, and the Japanese Governmen survey team.	· . ·	
4. REFERENCE NO.		Irrigation canal 16.48 km Drainage canal 29.14 km	However, the Malaysian Government investments in agricultural and rur		
5. TYPE OF STUDY	(M/P)+F/S	Road 31.6 km	due to its financial difficulties of trends in the export including stag	aused by some adverse	
6. COUNTERPART AGEN	NCY	Facilities for settlement 705 houses	international price of petroleum in		
Land Development Author Central Trengganu Deve	ority elopment Authority (KETENGAH)		Because of this it can not utilize development. However, small scale d area are implemented by their own f	evelopment in the swamp	
7. OBJECTIVES OF STUE	<u>N</u> Y				
		Implementation Period: 1980 - Dec.1984			
8. DATE OF S/W	Feb.1978	4. FEASIBILITY AND EIRR FIRR			
9. CONSULTANT(S)		TTS ASSUMPTIONS 13.84-17.14 Feasibility:		· ·	
Taiyo Consultants C Pacific Consultants		Conditions and Development Impacts:			
		Benefits from development:			
10. STUDY TEAM		Raising income of small-scale farmers. Creation of employment opportunities.		· · · · · · · · · · · · · · · · · · ·	
No. of Members 26	- 1070 Mar 1070 40 marthal	Alleviation of damages by flooding.	2. MAJOR REASONS FOR PRESENT STA	TUS	
Period Aug	g. 1978 - Mar.1979 (8 months)		As mentioned above		
Japan	100.30 45.30				
Field 11. ASSOCIATED AND/OI SUBCONTRACTED STU	55,00 R JDY				
· · · · · · · · · · · · · · · · · · ·			3. PRINCIPAL SOURCES OF INFORMAT	ION	
		5. TECHINCAL TRANSFER			
12. EXPENDITURE	226,358 (¥'000)	(1) Admittance of two trainees for in-service training in Japan	0		
Total Contra		(2) OJT			

和名 トレンガヌ沼沢地農業総合開発計画

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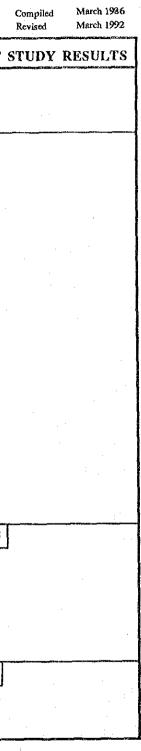
{F/S, (M/P)+F/S, D/D}

I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF USE OF STUDY RESULTS
I. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT In Progress or In Use
2. NAME OF STUDY	۲۰۰۶ ۲۰۰۶ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰	Bintulu/Sarawak	STATUS Delayed
(*Bintulu Deepwater Po	rt Project)	2. COSTS OF	Discontinued
		PROPOSED PLAN OR MAJOR PROJECTS Total Cost Local Cost Foreign Cost	
3. SECTOR		(US\$1,000) 1) 2)	Based upon the recommendation of this report, the project was implemented and completed in 1985. OECF finance was
fransportation/ Port		3. MAJOR PROJECT(S) PROPOSED	secured for dredging ($\$7,800$ million) and three Japanese experts cooperated on the port development during 1982-1985.
REFERENCE NO.		The port of Bintulu in Sarawak was planned to become a loading port which handle LNG exported to Japan (total of 600 thousand	
S. TYPE OF STUDY	Other	tons since 1983) and fertilizer produced by the ASEAN-project. Because LNG is an important source of foreign exchange, the	
5. COUNTERPART AGENCY		Malaysian government has completed D/D and invited tenders in order to complete the development of the port by the end of	
3intulu Port Managemen Fransport	t Body, Ministry of	1982. Because of the pressing schedule and technical difficulty of construction, the Malaysian government requested the	
7, OBJECTIVES OF STUDY		assistance from Japan to expedite the project implementation. This study advised on site construction and engineering, and supervision and evaluation of tender documents.	
DATE OF S/W		4. CONDITIONS AND DEVELOPMENT IMPACTS	
D. CONSULTANT(S)		Implementation of this project is expected to accelerate the development of related industries of LNG, promote regional economic development, and to improve the standard of living in the region.	
0. STUDY TEAM			
No. of Members 4 Period Jan. 198	80 - Feb.1980 (2 months)		2. MAJOR REASONS FOR PRESENT STATUS
Total M/M 5.	.6		
Japan 2. Field 3.			
1. ASSOCIATED AND/OR SUBCONTRACTED STUDY			
		5. TECHINCAL TRANSFER	
			3. PRINCIPAL SOURCES OF INFORMATION
. EXPENDITURE	I		
Total Contracted	14,481 (¥'000) 10,389		
和名 ビンツル港建設計画		-200-	(M/P, M/P+(F/S), Basic Study, Other)

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

I. OUTLINE OF	STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF USE OF
1. COUNTRY Mal	laysia	1. SHE OR AREA	1. PRSENT In Progress or In Use
2. NAME OF STUDY	ىرىمىغىدى بەرىپ <u>مىمىيە بىلەر بىل</u>	Kelantan, east coast of Peninsular Malaysia	STATUS Delayed
Kelantan Port Development	Project	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS Total Cost Local Cost Foreign Cost	
3. SECTOR		(US\$1,000) 1) 2)	Followed by F/S.
Transportation/ Port		3. MAJOR PROJECT(S) PROPOSED	
4. REFERENCE NO.		East coast area of Kelantan is economically the least developed and the only port is useless because of the deposition of silt and sand discharge. The	
5. TYPE OF STUDY M/	'P+(F/S)	basic objective of the project is the construction of a commercial and fishery port in the area.	
6. COUNTERPART AGENCY		Recommended new facilities are;	
Economic Planning Unit, Pr Department (EPU)	rime minister's	Commercial port area: Breakwater(970m,840m), Breakwater(570m), Channel(~7.5m,~5.0m), Quay 2 Berths(~7.5m, 260m),	
7. OBJECTIVES OF STUDY		Dolphin 1 Berth, Palm Oil Storage Tanks 4, Petroleum Product Storage Tanks 15.	
Master plan, covering the year 2000, the First Phase up to the year 1987, and t the plan	e Development Plan	Fishery port area: Mooring facility(-3.0m, 290m, -2.0m, 175m), Wholesale facility 1, Cold Storage Freezing. Ice factry facility each 1 unit.	
8. DATE OF S/W	/ 1975	4. CONDITIONS AND DEVELOPMENT IMPACTS	
9. CONSULTANT(S) Kokusai Kogyou Co., Ltd.		Target year of future cargo handling volume is the year 1987, 2000. The estimation of cargo volume by commodity is based on GDP of the Kelantan including other development plans.	
		This project is expected to promote industrialization in Kelantan, and to improve the standard of living of local	
10. STUDY TEAM		population, especially fishermen.	2. MAJOR REASONS FOR PRESENT STATUS
No. of Members 12 Period Sep.1979 -	Feb.1981 (17 months)		
Total M/M 85.63 Japan 57.17 Field 28.46			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY			
Boring Survey		5. TECHINCAL TRANSFER	
		Deputy derector and 3 persons accepted for training	3. PRINCIPAL SOURCES OF INFORMATION
	190,122 (¥'000) 180,720		0

和名 ケランタン州港湾建設計画



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

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ASE MYS/S 202B /80		ਗ਼ਗ਼ਫ਼੶ਗ਼ਖ਼ਸ਼ਜ਼੶ਖ਼੶ੑਖ਼ੑ੶ੑੑੑਖ਼ੑਗ਼੶ਖ਼੶ਖ਼ਜ਼ਖ਼੶੶੶ਖ਼ੑਖ਼ਫ਼੶੶ਖ਼ਖ਼ਫ਼ਖ਼੶ਗ਼ਫ਼ਖ਼੶ਗ਼ਫ਼ਖ਼੶ਖ਼ਖ਼ਖ਼੶੶੶੶੶ਫ਼੶ਖ਼੶੶੶੶੶੶੶੶੶੶		and a subscription of the	and the second secon	Re
I. OUTLINI	E OF STUDY	II. SUMMARY OF STUDY	RESULTS	III. PRI	ESENT STATUS OI	F STUDIE
1. COUNTRY	Malaysia	1. SITE OR AREA	an a	1. PRSENT	Completed or in Progress	D P
2. NAME OF STUDY		Kelantan, east coast of Peninsular	Malaysia	STATUS	Completed	
Kelantan Port Developm	nent Project				O Implementing	D D
		2. PROJECT COSTS	l Cost Foreign Cost		O Processing	[] D
		1) 40,113	20,254 19,859	(Description)	نگالوردورد – ∕ – ا ^ر ۵۱۳ <u>ور سر م</u> رو و ^م ر پر منطقات کرد. و مراجع می معرف مان کرد.	
3. SECTOR		(US\$1,000) 2) 3)		(,		· · ·
Transportation/ Port		3. CONTENTS OF MAJOR PROJECT(S)			was suspended after t jes in port operation	
· · ·		The project develops the port as a distrib		Cargo was i	increasingly handled i	in Singapor
4. REFERENCE NO.		base for coastal and offshore fishing boa	ts.		bansion of Kelantan Po cessary for the time k	
5. TYPE OF STUDY	(M/P)+F/S	-Breakwater, channel and basin: depth -5	.0~-7.5m	central gove	ernment postponed the	expansion
6. COUNTERPART AGENCY		-Quay: depth -7.5m x 260m -Berths for fishing boats: depth -2.0m		provincial (government hopes its e	early impie
Economic Planning Unit	_ t, Primeminister's	-Fishing facilities (Open storage, cold s -Access road	torage)			
Department (EPU)		HELEDO IVEN				
7. OBJECTIVES OF STUDY						
Master plan, covering	the period up to the			:		
	Phase Development Plan and the feasibility of	Implementation Period: Mar. 1983 - Dec.	1987			
the plan		Implementation Period: Mar. 1983 - Dec.	1,00		· ·	
8. DATE OF S/W	May 1979	4. FEASIBILITY AND EIRR ITS ASSUMPTIONS 9,4%	FIRR			
9. CONSULTANT(S)]	Feasibility: Yes	4.6%			
Kokusai Kogyou Co., Lt	.d.					
		Conditions and Development Impacts: This project is expected to promote indus	trialization in		4	
		Kelantan, and to improve the standard of	living of Kelantan's			
10. STUDY TEAM]	people, especially fishermen by construct physical distribution center for fishery	ing a port as a a and forestry products,			
No. of Members 12 Period Sep. 19	79 - Feb.1981 (17 months)	and a coastal and pelagic fishery base.		2. MAJOR RE	SONS FOR PRESENT'S	TATUS
LATION 265°13	/3 - rem.1901 (1/ MONUNS)			Suspended d	ue to the downturn of	the econor
Total M/M 85. Japan 57.						
Japan 57. Field 28.						
11. ASSOCIATED AND/OR					· · · · ·	· .
SUBCONTRACTED STUDY						
				ļ		
		5. TECHINCAL TRANSFER		3. PRINCIPAL	SOURCES OF INFORM	ATION
12. EXPENDITURE				0		
T2. EAFENDITURE	L 190,122 (¥'000)					
Contracted	180,720			<u></u>		

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和名「ケランタン州港湾建設計画

Compiled Revised	March 1986 March 1992
NED PR	ојест
Promoting	
Delayed or Discontinue	Suspended ad or Cancelled
letion of ysia. pore, and he east ca Although f on of the plementat	the past the port, the
nomic con	ditions.
<u></u>	

ASE	MYS/S	302/80	

ASE MYS/S 302/80	PROJECT SUMMARY (F/S)	Compiled Revised
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	HI. PRESENT STATUS OF STUDIED PR
1.COUNTRY Malaysia	1. SITE OR AREA Northern Sarawak	1. PRSENT
2. NAME OF STUDY	Miri/Bintulu-Limbang segment	STATUS O Completed
Beluru/Long Lama/Limbank Trunk Road Construction Project in Sarawak	2. PROJECT COSTS Total Cost Local Cost Foreign Cos	O Processing Discontinue
3. SECTOR	1) 84,383 84,383 (US\$1,000) 2) 3)	(Description)
Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	Prospect : According to the March 1985 report on Sarawak-Sav
	Route improvement 69.5km New route construction 141.1km	transportation infrastructure study, the road imp plan for the Sarawak state is as follows:
4. REFERENCE NO. 5. TYPE OF STUDY F/S	Feeder roads 49.8km(5 routes)	-The Fifth Development Plan (1986-1990) gives pri
6. COUNTERPART AGENCY	мания и предоктория и предок	paving the unpaved segments of the first class t roads.
Economic Planning Agency		-The second class trunk roads are being considere
7. OBJECTIVES OF STUDY	·····	future road network development. This will begi 14.6km point of Kuching-Sibu road and will run p
Road Plan		the first class trunk road along the mountain fr to South. The purpose is to develop a national r network by constructing several East-West roads
	Implementation Period: 1980 - 1985	—— the two classes of trunk roads as well as villag
8. DATE OF S/W Feb. 1978	4. FEASIBILITY AND EIRR FIRR ITS ASSUMPTIONS 10.1%	
9. CONSULTANT(S)		
Pacific Consultants International	Feasibility: Yes	
	Conditions and Development Impacts: (1) Project life : 20 years (2) Construction in 3 stages	
10. STUDY TEAM	(3) At first, reads will remain unpaved. As the traffic volum increases, they will be paved.	
No. of Members 13 Period Mar.1978 - Mar.1980 (2		2. MAJOR REASONS FOR PRESENT STATUS
Total M/M 61.13	(1) Agricultural development along both sides of roads (2) Promotion of forestry and manufacturing	Agreement and cooperation between the sarawak sta Government and the Federal Government should be a
Japan 42.90 Field 19.23	(3) Tourism development at and around G.Mulu National Park.	before procurement of funds. Lack of agreement be two governments is delaying the project.
11. ASSOCIATED AND/OR		Additionally, priority is given to other sections discouraged the study project.
SUBCONTRACTED STUDY		
	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
12. EXPENDITURE	Transportation economics (mass transit).	0
Total 186,171 (V Contracted 141,135	(*000)	
和名 サラワク幹線道路建設計画		{F/S, (M/P)
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I. OUTLIN	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF S	TUDIED PROJECT
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT Completed or in Progress	Promoting
2. NAME OF STUDY		Kinabatangan River in Sabah State and Sadong River in Sarawak State	STATUS Completed	
Flood Forecasting and Sabah and Sarawak	Warning System in	2. PROJECT COSTS (US\$1=220Yen)	Implementing O Processing	Delayed or Suspended Discontinued or Cancelle
		Total Cost Local Cost Foreign Cost 1) 2,516 611		
3. SECTOR		(US\$1,000) 2) 3)	(Description)	
Social Infrastructure Control	s/ River & Erosion	3. CONTENTS OF MAJOR PROJECT(S)	1980-81 D/D undertaken by DID. 1985 Construction work completed	by local fund
4. REFERENCE NO.		<u>K.River</u> S.River Total	(M\$700,000)	
5. TYPE OF STUDY	F/S	Flood Forecasting Center 1 1 2		
6. COUNTERPART AGENCY		Relay Station 2 1 3 Monitor Station 1 1 2		
	ion and Drainage (DID)	Telemeter Station7714Transmission 6 Receiving112		
7. OBJECTIVES OF STUDY		Station		
Establishment of floo warning systems over Kinabatangan and Sado Sabah and Sarawak Pro	the basins of ng river basins of	Implementation Period:		
8. DATE OF S/W	Nov.1978	4. FEASIBILITY AND EIRR FIRR		
9. CONSULTANI(S)		TTS ASSUMPTIONS Feasibility: Yes		
CTI Enginnering Co	Ltd.	Conditions and Development Impacts:		
		The purpose of the project is to establish systems and organizations to give flood forecasting and warning by		
IO. STUDY TEAM		analizing hydrologic data obtained at the basins of Kinabatangan and Sadong Rivers.		······································
No. of Members 9 Period Oct. 1	979 - Jul.1980 (9 months)	Desired results of the development are to foster harmonious	2. MAJOR REASONS FOR PRESENT STAT	US
Total M/M 19. Japan 10. Field &		growth of social and economic environment by mitigating direct and indirect flood damage and by resulting stability of livelihood of the people.	Drive forward setup of the other par The project cost 1s comparatively worked out by the department in ch forward setup were slackened off.	higher than the budget
1. ASSOCIATED AND/OR SUBCONTRACTED STUDY			Secup were stackened off.	
Radio Wave Propagation ?	 Test			مر بر می از این
	· · · · · · · · · · · · · · · · · · ·	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATIC	NC
2. EXPENDITURE	1	1. OJT: Out of the survey items, both counterparts and Japanous englines: ware worked together in teile ware	0	
Total Contracted	57,134 (¥'000) 42,009	propagation tent, etc. 2. Franzier of Equipment and Instruction: After through OJF operation procedures of the wave propagation measuring equipment, tayanaforred the equipment to the		· · ·
和名 サバ・サラワク洪	水子型 想計画	₩ <u>₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩</u>		{F/\$, (M/₽)+F/\$, D/D}

ASE MYS/S 203A /81 **III. PRESENT STATUS OF USE OF ST II. SUMMARY OF STUDY RESULTS** I. OUTLINE OF STUDY 1. SITE OR AREA 1. COUNTRY Malaysia 1. PRSENT In Progress or In Use Alor Setar and Kuala Kedah areas of State, bounded on Delayed 2. NAME OF STUDY STATUS Thailand in Northwest coast of the Malaysia Peninsula Discontinued Sewerage and Drainage System Project in Alor 2. COSTS OF (US\$1=2.5M\$) Setar and its Urban Environs PROPOSED PLAN OR (Description) MAJOR PROJECTS Total Cost Local Cost Foreign Cost F/S has been prepared based on this study. 47,673.2 38,421 11 3. SECTOR (US\$1,000) 2) 3. MAJOR PROJECT(S) PROPOSED Public Utilities/ Sewerage There is no sewerage facilities in the project areas (Project 4. REFERENCE NO. area ; 3,300ha , Population: 140,000). Main problem in this area is the treatment of night soil. There 5. TYPE OF STUDY M/P+(F/S)are some drainage facilities, but flow capability is low, and thus inundation disaster frequently occurs. Contents of the 6. COUNTERPART AGENCY projects are as follows: Ministry of Health Sewerage system; 7. OBJECTIVES OF STUDY : d225-1,050mm for 21,970m length Severs Pumping Station: 2 stations Planning of sewerage and drainage system for 11,850cu.m/day (5trains, 88ha site) Plant : improvement of life and sanitation Trucks, cleaning machines, Others : conditions experiment equipment main drainage channel, embankment, gate Drainage system: 8. DATE OF S/W 4. CONDITIONS AND DEVELOPMENT IMPACTS Oct.1978 9. CONSULTANT(S) Economic impacts of the project are prevention of inundation Nihon Suido Consultants Co., Ltd. damages and water pollution control, decrease in infectious diseases, and increase in productivity, which, however, are difficult to be quantitatively scaled. The project, target year of 2000, is divided into 4 phases. Separate sewerage system with 5 sewage treatment plants (oxidation pond system) 10. STUDY TEAM is selected. The inundation counter-plan, consisting of improvement of existing channels and reclamation, covered Kuala 2. MAJOR REASONS FOR PRESENT STATUS No. of Members 10 Kedah area(125ha). Feb.1979 - Mar.1981 (13 months) Period 1) Financial problem 2) Change of priority Total M/M 105.32 66.31 Japan 39.01 Field 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER **3. PRINCIPAL SOURCES OF INFORMATION** 1) Short term training program. 2) Employment of Local consultants for topographic survey. (1) **12. EXPENDITURE** 3) Equipment granted and instructed for water quality test. 236,999 (¥'000) Total

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和名 アロースター下水道及び排水計画

232,245

Contracted

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

Compiled Revised	March 1986 March 1992
STUDY	RESULTS
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Format B Country index EndFY MYS 81

PROJECT SUMMARY (M/P + F/S)

I. OUTLIN	E OF STUDY	H. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUI
1. COUNTRY	Malaysia	1. SITE OR AREA	Completed or
2. NAME OF STUDY		Priority area of Alor Setar (187 ha)	1. PRSENT in Progress
	e System Project in Alor		STATUS O Completed
Setar and its Urban I		2. PROJECT COSTS (US\$1=205M\$)	O Processing
	н Н	Total Cost Local Cost Foreign Cost 1) 8,700 7,100	(Description)
3. SECTOR		(US\$1,000) 2) 3)	(Description)
Public Utilities/ Se	werage	3. CONTENTS OF MAJOR PROJECT(S)	
		Project area : 187ha	is under construction. Information on t obtained through Butterworth project. I
4. REFERENCE NO.		Sewers : d225-1,050mm for Length= 22,000m P/S : 2 stations(Q = 13-17cu.m/min)	review the F/S because 5 years have pass was completed. As of Aug. 1987, no furt
5. TYPE OF STUDY	(M/P)+F/S	Plant : 1 Stabilization pond	obtained. It seems that the project is
6. COUNTERPART AGENC	Y	Drainage facilities: construction and improvement of existing main channels	finance but will be suspended due to sho After the completion of F/S, the short
Ministry of Health	ð		were prepared for D/D and construction, the effort was suspended due to the fisc
			local consulting firm undertook D/D on a
7. OBJECTIVES OF STUDY			drainage facilities, and its construction Sewerage works are scheduled to be impl
F/S of the sewerage the priority area	and drainage system in		sixth Five Year Development Plan.
the priority area	and a second	Implementation Period: 1981 - 1985	
A DATE OF GAN		4 FEASIBILITY AND EIRR FIRR	
8. DATE OF S/W 9. CONSULTANT(S)	Oct.1978	4. FEASIBILITY AND EIRR FIRK ITS ASSUMPTIONS	
Nihon Suido Consulta		Feasibility: Yes	
		Conditions and Development Impacts:	
		This study is to plan the wastewater treatment system and	
10. STUDY TEAM		drainage system at the target year of 2000, based on the M/P together with the comments of Malaysian Government. As	
No. of Members 10		development impacts, especially economic impacts, water contamination control (agricultural water and seaside water)	2. MAJOR REASONS FOR PRESENT STATUS
Period Feb.1	1979 - Mar.1981 (13 months)	and decrease of inundation damages in rainy season are	Domestic condition: New project has been
Total M/M 105	.32	expected, although those are not quantitatively scaled. Management cost of planned facilities is lower than that of	Malaysia because of financial deficit by
.	5.31	existing system of night soil treatment and community septic tanks, thus economical merit can be expected.	in 1981.
11. ASSOCIATED AND/OR			
SUBCONTRACTED STUD	Y		
		5. TECHINCAL TRANSFER	- 3. PRINCIPAL SOURCES OF INFORMATION
12. EXPENDITURE		1) Shart for training program (including site instantional for	
TZ. EXPENDITORE	236,999 (¥'000)	two techinical counterparts are under taken. 2) Reporting with counterparts (part of reports have been prepared during the techning.) 3) Employment of local consultants for land survey and water quality test. 4) Equipment granted and instructed for water quality tests.	
Contracte		a is exployment of local consultants for land survey and water quality test. §) Equipment granted and instructed for water quality tests.	

和名 アロースター下水道及び排水計画

Total Contracted

232,245

-206-

Compile Revised	
F STUDIED	PROJECT
Promo	oting
	ed or Suspended ntinued or Cancelled
ystem in Butte ion on the pro ject. It is n ave passed sin no further in ject is in pro e to short of e short list of uction, but su the fiscal cor D/D on a porti struction is u be implemente	ject is lecessary to loce the study iformation by the study if consultants by the sequently listraints. A on of the ender way.
7147710	
	pended in whole world recession
and a second	
ATION	

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

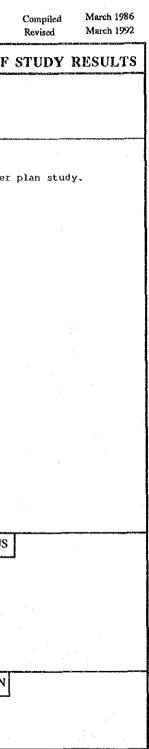
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1. COUNTRY Malaysia	1. SITE OR AREA	BE Completed or
2. NAME OF STUDY VHF/FM Broadcast Coverage for Peninsular Malaysia	Peninsular Malaysia 2. PROJECT COSTS Total Cost Local Cost Foreign Cost	1. PRSENT in Progress Promoting STATUS O Completed Implementing Delayed or Suspended Processing Discontinued or Cancelle
	1) 39,265	(Description)
3. SECTOR	(U\$\$1,000) 2) 	
Communications & Broadcasting/ Broadcasting	3. CONTENTS OF MAJOR PROJECT(S) The proposed project will introduce the VHF FM	The Government of Malaysia has been implementing the project by own fund. The implementation is divided into three phases, and
4. REFERENCE NO.	broadcasting system for poor reception areas in Peninsular Malaysia, making maximum use of the	during the 1st phase four stations were completed. Tenders on 8 stations(one station in Sarawak) for the 2nd phase wa
5. TYPE OF STUDY F/S	existing TV facilities.Major contents of the project	over, and the construction started in 1990. The total
6. COUNTERPART AGENCY	are as follows. - Transmission:	construction costs for the 1st and 2nd phases were estimated to be M\$11.5 million.
Economic Planning Unit, Prime Minister's Dept. and Jabatan Telekom Malaysia	<pre>15 sites (13 existing TV sites, 1 existing microwave site and 1 new site) - Station buildings:</pre>	The remaining 4 stations will be grouped with 23 stations planned for East Malaysia, and will be implemente as the 3rd phase during the 6th five-year national
7. OBJECTIVES OF STUDY	11 new sites and 4 joint-use sites - Towers:	development plan.
8. DATE OF S/W Jun. 1980	4. FEASIBILITY AND EIRR FIRR ITS ASSUMPTIONS 27% 8.8%	
9. CONSULTANT(S)	Feasibility: Yes	
Integrated Technology Inc.	Conditions and Development Impacts: Conditions: 1) The charges for TV commercial messages will be raised by 20% every 10 years.	
No. of Members 12	2) The part of the costs will be financed by the government fund (annual growth rate of 8.14 %).	2. MAJOR REASONS FOR PRESENT STATUS
Period Jun.1980 - Feb.1981 (8 months) Total M/M	 3) The annual user charge will be raised from M\$24 to M\$40. 4) Project life of 10 years Development impacts: 	
Japan Field	1) Improvement of reception in the formerly poor-reception areas	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	 Community development through improved access to TV broadcasting Cultural contribution 	
	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
12. EXPENDITURE 54, 324 (¥'000)	 1) On-the-job training 2) Participation of 2 counterparts in the JICA training program 	

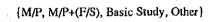
ASE MYS/S 101 /82		PROJECT SUMMARY (M/P)	Compile Revised	d March 19 March 19	
I. OUTLINE OF S	TUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF USE OF STUDY	Y RESULT	
1. COUNTRY Malay	sia	1. SITE OR AREA	1. PRSENT In Progress or In Use		
2. NAME OF STUDY		The entire country	STATUS Delayed		
National Water Resources Stud	dv		Discontinued		
	-	2. COSTS OF (US\$1=2.5M\$) PROPOSED PLAN OR MAJOR PROJECTS Total Cost Local Cost Foreign Co	(Description)	· · · · · · · · · · · · · · · · · · ·	
3. SECTOR		(US\$1,000) 1) 16,500,000 7,500,000 9,000,00	Based on the recommendations of the study, a basin-wise master plan studies and feasibility	number of studies hav	
Social Infrastructures/ Water Development	r Resource	3. MAJOR PROJECT(S) PROPOSED	been undertaken, such as (1) Perlis-Kedah-Pulau Regional Water Resources, (2) Regional Water Re	Pinang sources of	
4. REFERENCE NO.		The study determined the goals for water resource development through the year 2000, and proposed	South Johor, (3) Beris Dam Development, (4) Kel Flood Control, (5) Pinang Island Flood Control,		
5. TYPE OF STUDY M/P		projects/programs to realize the goals. Major proposals are as	Welenhout Blend Central Darts of (1) (2) and		
6. COUNTERPART AGENCY	· · · · · · · · · · · · · · · · · · ·	follows. - Construction of multi-purpose dams	This National Water Resource Study produced a achievement in terms of having formulated a fra	significant	
Economic Planning Unit, Drainage and Irr	igation Dept.,	 Inter-basin and inter-province water training Hydro-power generation 	nation's water resources developemnt plan. Sin	ice then	
Public Works Dept., Division of Environm	ment, etc.	- Improvement of emission treatment at rubber factories and	almost 10 year's have passed. The country has remarkable economic development , and according		
7. OBJECTIVES OF STUDY		palm oil mills - Sewerage development in 31 cities	conditions/needs of water developemnt and use h		
Formulation of a long-term water resource development plan through 2000		- Flood control (river channel improvement, embankment, contro dams, etc.)	This suggests that there is a need of updating	This suggests that there is a need of updating study for renewal of the country's water development/use plans.	
development plan childign 2000	-			•	
8. DATE OF S/W	070	4. CONDITIONS AND DEVELOPMENT IMPACTS			
8. DATE OF S/W Feb. 1 9. CONSULTANT(S)	979				
International Engineering Con		The study proposed the nationally consistent strategy for water resource development and management up to the year 2000.			
Association, Nippon Koei Co., other three consulting firms	, Ltd., and	 To increase potable and industrial water supply by upgrading water supply facilities 			
		 To raise the level of rice self-sufficiency by irrigation development 			
10. STUDY TEAM		 To increase power supply by hydro-power generation To conserve water quality by the development of public 		<u></u>	
No. of Members 29		sowerage 5) To reduce flood damages by improved flood control	2. MAJOR REASONS FOR PRESENT STATUS		
Period Oct.1979 - Oct	,1982 (24 months)				
Total M/M 402.97	÷	In order to facilitate the implementation, the study proposed institutional and legislative measures.			
Japan 151.83 Field 251.14	·	 Legislation of the integrated national water resource development law by incorporating the existing laws and 			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		acts. 2) Establishment of water resource committees and water			
SUBCONTRACTED STODY		resource bureaus on the national and provincial government lowels and a vector resource public corporation which will		ан. 19	
		5. TECHINCAL TRANSFER			
		1) Participation of counterparts in the JICA training program	3. PRINCIPAL SOURCES OF INFORMATION		
12. EXPENDITURE		 2) OJT 3) In addition to the study team, two Colombo-Plan experts and 	d 🛈		
	,961 (¥'000) ,000	one short-term expert were sent to Malaysia.			
和名 全国水資源開発計画			{M/P, M/P+(F/S), Basi	c Study, Othe	

ι οιμτι	NE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF USE O
1. COUNTRY	Malaysia	1. STE OR AREA	
2. NAME OF STUDY		Kerang North, kelang South, Port kerang, North port, Kapar and Meru	STATUS Delayed
Sewerage and Drainac Kelang, Port Kelang	ge System Project in and its Environs	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS Total Cost Local Cost Foreign Cost	
3. SECTOR		(US\$1,000) 1) 116,800 2) 204,400	A feasibility study followed the maste
Public Utilities/ Se	 owerage	3. MAJOR PROJECT(S) PROPOSED	
4. REFERENCE NO.		 Three-stage implementation programs up to 2,000 for drainage and sewerage systems construction. 	
5. TYPE OF STUDY	M/P+(F/S)	1)Drainage facilities proposed include improvement of a total	
6. COUNTERPART AGENC	CY .	of 107km trunk drains, five retention ponds, a total of 11.5km bund, replacement of 26 tidal gates and installation of	
Mini. of Health (Mi Local Government)		telemeter system. 2)Sewerage facilities to be constructed include 10 wastewater	
7. OBJECTIVES OF STUDY		 treatment plants, 12 pumping stations and a total of 113km trunk sewers. 	
and drainage systems	aster plan for Sewerage s in urban areas.		
8. DATE OF S/W	Dec.1980	4. CONDITIONS AND DEVELOPMENT IMPACTS	
9. CONSULTANT(S) Tokyo Engineering co	onsultants Co., Ltd.	Mitigation of damages caused by floods, improvement of public health condition and increase in property value will be anticipated through the implementation of the project. Intangible benefits, such as environmental improvement, are also expected.	
10. STUDY TEAM			
No. of Members 10 Period Mar.	1981 - Dec.1982 (21 months)		2. MAJOR REASONS FOR PRESENT STATU
Japan 5	3.85 0.69 3.16		
11. ASSOCIATED AND/OR SUBCONTRACTED STUI	Y		
	in dia 1997. Ny INSEE dia mampika dia 4014. Ny INSEE dia mampika dia 4014.	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
12. EXPENDITURE		Training was provided for two local counterpart engineers, one from Mini. of Housing and Local Government and another from Kelang Municipality, in Japan during the course of the study.	0
Total Contracted	240,305 (¥'000) 231,199		

和名 クラン地域下水道・排水計画

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I. OUTLINE OF STU	DY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1. COUNTRY Malays	ia	1. SITE OR AREA	1. PRSENT Completed or Promoting
2. NAME OF STUDY		Sewerage : Kelang North Drainage : Kelang North and Port Kelang	STATUS O Completed
Sewerage and Drainage System Ph Kelang, Port Kelang and its Env	roject in virons	2. PROJECT COSTS (US\$1=M\$2.5) Total Cost Local Cost Foreign Cost	 Implementing Delayed or Suspended Processing Discontinued or Cancelled
3. SECTOR		1} 7,200 (US\$1,000) 2) 22,400 15,600 6,800	(Description)
Public Utilities/ Sewerage			- Suspended after the completion of F/S due to economic
empire officies, severage		3. CONTENTS OF MAJOR PROJECT(S)	recession. DID undertook D/D on part of the drainage work and has
4. REFERENCE NO.		1) Drainage : Trunk drains, 7,460m	been implementing with small budget allocations.
5. TYPE OF STUDY (M/P) +1	F/S	Tidal gate, 4 Bunds, 1,980m	The project apparently has medium priority and is likely to be included in the Sixth Five Year Development Plan.
5. COUNTERPART AGENCY		Telemeter system	
Mini. of Health (Mini. of Hous: Government)	ing and Local	2) Sewerage : Trunk sewers, dia. 375 - 1,200mm, 6,660m Branch and lateral sewers, 56,985m	
OBJECTIVES OF STUDY		Kg. Kuantan pumping station, peak flow 23.7cu.m/min.	
Preparation of a feasibility s sewerage and drainage system in	tudy for n urban areas.	Connaught wastewater treatment plant, oxidation pond 11,592cu.m/d	
		Implementation Period: 1983 - 1990	
B. DATE OF S/W Dec. 198	о О	4. FEASIBILITY AND EIRR FIRR	
CONSULTANT(S)	<u> </u>	ITS ASSUMPTIONS	
Fokyo Engineering consultants (Co., Ltd.	Feasibility:	
		Conditions and Development Impacts:	
		Improvement of public health condition and flood mitigation in the project area. The project contributes to the environmental	
0. STUDY TEAM		improvement in and around the project area.	
No. of Members 10 Period Mar.1981 - Dec.1	000 (01		2. MAJOR REASONS FOR PRESENT STATUS
Period Mar.1981 - Dec.19 Total M/M 103.85	982 (21 months)		Economic recession in 1983, and subsequent review of the Forth Malaysia Plan.
Japan 50.69 Field 53.16			
1. ASSOCIATED AND/OR SUBCONTRACTED STUDY			
Topografic and leveling survey.			
			3. PRINCIPAL SOURCES OF INFORMATION
		5. TECHINCAL TRANSFER	
	the second s	Training was provided for two local counterpart engineers, one	

Compiled March 1986 Revised March 1992	Revised	PROJECT SUMMARY (M/P + F/S)		SE MYS/S 204A /82
TUDY RESULTS	III. PRESENT STATUS OF USE OF STUDY R	II. SUMMARY OF STUDY RESULTS	E OF STUDY	I. OUTLINE
	1. PRSENT In Progress of In Use	E OR AREA	Malaysia	I. COUNTRY
	STATUS Delayed	opolitan area of Penang State		2. NAME OF STUDY
ster plan for urban	(Description) The report has been utilized as the master plan	OSTS OF OSED PLAN OR OR PROJECTS Total Cost Local Cost Foreign Cost	eater Metropolitan Butterworth and Bukit	Irban Transport in Gre Treas of George Town, Wentajam
	transport planning in metropolitan Penang.	1) 434,000 (5\$1,000) 2)		3. SECTOR
ity study on roads	The study was followed by the feasibility study on Penang Island (1980-1981) and the feasibility stud in Butterworth (1981-1982).	AJOR PROJECT(S) PROPOSED		Transportation/ Road
y, the municipal erized traffic	Based on the recommendation of the study, the m government of Penang introduced the computerized t	-term Plan: construction of 25 sections (total 110.6km); (2)		I. REFERENCE NO.
velopment plan. The	control system during the 5th national development municipal government has been implementing some of	ovement of 21 sections (80.6km); (3) construction of 8 new rated interchanges; (4) improvement of 33 separated	M/P+(F/S)	5. TYPE OF STUDY
f tourism roads,	short-term measures such as improvement of tourism	rchanges; and (5) construction of terminals		5. COUNTERPART AGENCY
g spaces.	installation of traffic signals and parking spaces	-priority projects: Outer ring road from CBD to Ayar Itam Outer ring road from Ayar Itam to the north coast	ghway Planning Unit of	Economic Planning Unit, and Hig the Ministry of Public Works
		Improvement of the west coast road and Frai Bridge		7. OBJECTIVES OF STUDY
		Bulmatampo Widening of the Federal Route No. 1		Highway development
				an an an an Arthur An Anna Anna <u>an taona an an an</u> an
		ONDITIONS AND DEVELOPMENT IMPACTS	Nov.1978	. DATE OF S/W
		e proposed plan will alleviate the worsening urban sport problems in metropolitan Penang caused by the d urbanization and industrialization and increase of mobile traffic. The plan will alleviate traffic estions in the CBD of George Town and Butterworth, and ide low-income classes better access to low-cost sportation means. The implementation of short-term) ic.	D. CONSULTANT(S) Central Consultant, In 0. STUDY TEAM
	2. MAJOR REASONS FOR PRESENT STATUS	ures (introduction of better traffic control) will ove the safety of transportation. e plan will realize a high-mobility transportation system	J ; 2nd 14; 3rd 10 79 - May 1982 (34 months)	No. of Members 1st 12;
		ssible from any part of the study area.	-8	
				Field 102.1 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY
		CHINCAL TRANSFER		
	3. PRINCIPAL SOURCES OF INFORMATION			
	$\mathbb{O}^{\mathbb{N}}$		T	. EXPENDITURE
			497,100 (¥'000)	Total
	1		470,259	Contracted

Upper Land Part of December 98:100011 Land 2.PROJECT COSTS US1052.05 (December 200011 Land) NonEa Jam 1) Jose 20011 Land) (December 20011 Land) (December 20011 Land) 3.SECTOR 1) Jose 20011 Land) (December 20011 Land) (December 20011 Land) 3.SECTOR 1) Jose 20011 Land) (December 20011 Land) (December 20011 Land) 3.SECTOR 1) Jose 20011 Land) Jose 20011 Land) (December 20011 Land) (December 20011 Land) 3.SECTOR 1) Jose 20011 Land) Jose 20011 La	I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS			III. PR	RESENT STATUS OF	STUDIED PROJEC
2. NAME OF STUDY 1) a rea a round Guorge Town 2) a rea a round Guorge Town 7) a read round Ruber Town 7) read round Ruber Town 7) read	1. COUNTRY	Malaysia	1. SITE OR AREA	namen mange op folgelig de men van men van en sen an de forste het op som en sen en sen en sen en sen en sen en	1	DRSENT		Promoting
Charles of George Town, Butterworth and Bukli C) Each Encode During Part 1, 10, 12, 143, 143 Constrained During Part 1, 10, 12, 14, 13, 14, 13, 14, 13, 14, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	2. NAME OF STUDY		1) area around Geo	rge Town			-	· .
Areas of George Toun, Buttlerworth and Bukit 2. PROJECT COSTS Total Cast Cost Cast Cast Cast Cost Ca	Urban Transport in Gre	ater Metropolitan					O Implementing	Delayed or Suspende
3. SECTOR 1 103,943 66,619 37,224 3. SECTOR 1001,943 66,619 37,224 3. SECTOR 3. CONTENTS OF MAROR REGISCI(S) 11. was officially approved to include The project in the fill deviation was postponed to the 051 4. REFERENCE NO. 10. Otter ring road of Encoden Town (23,846m and 4 lansa) 10. Were are iteration was postponed to the 051 5. TYPE OF STUDY (M/P)+E/S 10. Otter ring road of Butterworth 16 lansa in the section from the toron of Butterworth 16 lansa in the section from the toron of Butterworth 16 lansa in the section from the toron of Butterworth 16 lansa in the section from the toron of Butterworth 16 lansa in the section from the toron of Butterworth 16 lansa in the section from the toron of Butterworth 16 lansa in the section from the toron of Butterworth 16 lansa in the section from the toron of Butterworth 16 lansa in the section from the toron of Butterworth 16 lansa in the section from the toron of Butterworth 16 lansa in the section from the toron of Butterworth 10 lansa in the section from the toron of Butterworth 16 lansa in the section from the toron of Butterworth 10 lansa in the section from the toron of Butterworth 10 lansa in the section from the toron of Butterworth 10 lansa in the section from the toron of Butterworth 10 lansa in the section from the toron of Butterworth 10 lansa in the section from the toron of Butterworth 10 lansa in the section from the toron of Butterworth 10 lansa in the section of Butterworth 10 lansa in the section from the toron of Butterworth 10 lansa in the section from the toron of Butterworth 10 lansa in the section from the section of Butterworth 10 lansa i	Areas of George Town,	Butterworth and Bukit			n Cost		O Processing	Discontinued or Can
3. SECTOR (0.51/0.00) 1 Transportation/Road 3. CONTENTS OF MAJOR PROJECT(S) It was officially approved to include the project in the St file development plan (1996 - 1990). 4. REFERENCE NO. 10 Outor Thin Tando G George Town (23.84km and 4 lanes) St file development plan (1996 - 1990). 2. TARBORTOPY (M/P)+*/S Colour Thin Tando G George Town (23.84km and 4 lanes) St file development plan (1996 - 1990). 2. TYPE OF STUDY (M/P)+*/S Colour Thin Tando Interchange, and 4 lanes 1 in diverchange, and 1 lanes 1 in other section from the othe St file diverchange. and 1 lanes 1 in the section from the social data to the file diverchange. and 1 lanes 1 in other sections which will avrive to improve and restructure the social data to the file diverchange. and 1 lanes 1 in the social data to the file diverchange. and 1 lanes 1 in the social data to the file diverchange. and 1 lanes 1 in the social data to the file diverchange. and 1 lanes 1 in the social data to the file diverchange. and 1 lanes 1 in the social data to the file diverchange. and 1 lanes 1 in the social data to the file diverchange. And 1 lanes 1 in the social data to the file diverchange. And 1 lanes 1 in the social data to the file diverchange. And 1 lanes 1 in the social data to the file diverchange. And 1 lanes 1 in the social data to the file diverchange. And 1 lanes 1 in the social data to the file diverchange. And 1 lanes 1 in the social data to the file diverchange. And 1 lanes 1 in the social data to the file diverchange. And 1 lanes 1 in the social data to the file diverchange. And 1 lanes 1 in the social data to the file diverchange. And 1 lanes 1 in the social data to the file dite diverchange. And 1 lanesocial data to the f	fielde Jam		1)			Description)) .	
11ABOULDATION 3. CONTENTS OF MADOR REQUECTS): 3. CONTENTS OF MADOR REQUECTS): 3. CONTENTS OF MADOR REQUECTS): 4. REFERENCE NO. 1. Outer ring read of George hours (23.44th and 4 lancs): 5. CONTENTS OF MADOR REQUECTS): 5ch five-year mational development plan (1986 - 1990). 5. TYPE OF STUDY (M/P)+F/S 2. Ring read of Butterworth (6 lance in the section from the tother section) which will be transport system 5ch five-year mational development plan (1986 - 1990). Bighway Planning Onit, Ministry of Public 7. OBJECTIVES OF STUDY 6. COUNTERPART AGENCY 5ch five-year mational development plan (1986 - 1990). Contrastitant, finc. 7/S on the highway development 1. 1984 - 1991 2. 1982 - 1980. S. DATE OF SAW Nov. 1976 4. FEASIBILITY AND EIRR FIRR Consultath, Inc. Feasibility: 0.114 - 15:34 10.574 - 15:34 Consultath, Inc. Foold and project lite of 25 years 5 start of service 1987 2. MAJOR REASONS FOR PRESENT STATUS No. of Mambers ? 7.8 7.8 7.8 2. MAJOR REASONS FOR PRESENT STATUS Yeiget lite of 25 years Start of service 1988 3. PRINCIPAL SOURCES OF INFORMATION 10. STUDY TEAM 105.94	3. SECTOR		1					
A. REFERENCE NO. 1) Outer Time read of George Town (22.49th and 4 lanes) Subgraphic Action (22.69th and 4 lanes) 4. REFERENCE NO. 2) Ring read of Buttervorth (6 lanes in the section from the followed prevents (0.4 co Plain Line values in other section from the followed prevents (0.4 co Plain Line values in other section from the followed prevents (0.4 co Plain Line values in other section from the followed prevents (0.4 co Plain Line values in other section from the followed prevents (0.4 co Plain Line values (0.4 co Plain Lin	Transportation/ Road		3. CONTENTS OF MAJOR	PROJECT(S)				
4: NUMERING ?) Ring road of Butterworth (6 lares in the section from the follow prove and fame in the section from the follow prove and fame in the section from the follow prove and fame in the section from the follow prove and fame in the section from the follow prove and fame in the section from the follow prove and fame in the section from the follow prove and fame in the section from the follow prove and fame in the section from the follow prove and fame in the section from the follow prove and fame in the section from the follow prove and fame in the section from the follow prove and fame in the section from the follow prove and restructure the existing transport system 6: COUNTERPART AGENCY Highway Planning Unit, Ministry of Public works Inplementation Period: 11 1984 - 1991 (2 1982 - 1990 (2 1982 - 1982 - 1982 - 1982 (2 1982 - 1982 - 1982 (2 1982 - 1982 (2 1982 - 1982 - 1982 (2 1982 - 1982 - 1982 (2 1982 - 1982 - 1982 - 1982 (2 1982 - 1982 - 1982 - 1982 - 1982 - 1982 - 1982 (2 1982 - 1982			1) Outer ring road of	George Town (23.84km and 4 lanes)	s	ubsequent	ly, the implementation w	vas postponed to the 6
6. COUNTERPART AGENCY othor sections) which will serve to improve and restructure the existing transport system Bighway Planning Unit, Ministry of Public	the second se	· · · · · · · · · · · · · · · · · · ·	2) Ring road of Butter	worth (6 lanes in the section from	n the	everopilen	t bran berrod due to the	TISCAL CONSCIENCES
Highway Planning Unit, Ministry of Public Works 7. OBJECTIVES OF STUDY Central Consultant, Inc. P/S on the highway development 8. DATE OF S/W Nov.1978 9. CONSULTANT(S) 9. CONSULTANT(S) 9. CONSULTANT(S) 9. CONSULTANT(S) 9. Consultant, Inc. Conditions and Development Impacts: 1) Project 11% of 25 years Start of service 1987 Opportunity cost 12% Priod Jul.1979 - Nay 1982 (36 monthe) Teal MM 109.95 Jead 102.14 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Total 497,100 (¥000)		(M/P)+F/S						
Works 7. OBJECTIVES OF STUDY Contral Consultant, Inc. P/S on the highway development Implementation Period: 11 1984 - 1981 21 1982 - 1990 8. DATE OP S/W Nov.1978 9. CONSULTANT(S) EIRR 9. CONSULTANT(S) Disk.3 - 93.33 Central Consultant, Inc. Pasibility: 0.0100 Y TEAM Conditions and Development Impacts: 1) Project life of 25 years Start of service 1987 Opportunity cost 124 2. MAJOR REASONS FOR PRESENT STATUS No. of Members ? 2. MAJOR REASONS FOR PRESENT STATUS Yebod Jul.1979 - May 1982 (34 months) Total MAM 199.34 10.STUDY TEAM 5. TECHINCAL TRANSFER Start of service 128 3. PRINCIPAL SOURCES OF INFORMATION 0 Total 497, 100 (¥000) 497, 100 (¥000)			existing transport sys	tem		· · ·		· · · ·
Central Consultant, Inc. Implementation Period: 1) 1984 - 1991 2) 1982 - 1990 Implementation Period: 1) 1984 - 1991 8. DATE OF S/W Nov.1978 4. FEASIBILITY AND EIRR FIRR 9. CONSULTANT(S) Central Consultath, Inc. Conditions and Development Impacts: 1) 1982 - 1930 10. STUDY TEAM Conditions and Development Impacts: 1) Project 11fe of 25 years 2. MAIOR REASONS FOR PRESENT STATUS No. of Members 7 Statt of Service 1987 Opportunity cost 128 2. MAIOR REASONS FOR PRESENT STATUS Total MM 109.94 Junity cost 128 Statt of Service 1986 3. PRINCIPAL SOURCES OF INFORMATION 11. ASSOCLATED AND/OR S. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE Total 497, 100 (¥'000) 0		Ministry of Public				н. 1919 - Элер		
F/S on the highway development Implementation Period: 11 1884 - 1991 21 1982 - 1990 8. DATE OFS/W Nov.1978 4. FEASIBIL/TY AND TIS ASSUMPTIONS EIRR FIRR 1) 18.2 - 19.33 9. CONSULTANT(S) Feasibility: 2) 174 - 17.35 Central Consultatn, Inc. Feasibility: 2) 17.4 - 17.35 Onditions and Development Impacts: 1) Project 11fe of 25 years Start of service 1987 Opportunity cost 128 2. MAJOR REASONS FOR PRESENT STATUS No. of Members ? Preiod 7.8 Field 2) Project 11fe of 25 years Start of service 1988 Opportunity cost 128 2. MAJOR REASONS FOR PRESENT STATUS 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 0 Total 497,100 (¥000) 0	7. OBJECTIVES OF STUDY	······································					· · · ·	
Implementation Period: 11 1984 - 1991 21 21 1982 - 1990 8. DATE OF S/W Nov.1978 9. CONSULTANT(S) 4. FEASIBILITY AND Its ASSUMPTIONS EIRR 10.52 - 19.1X Central Consultatn, Inc. Feasibility: Project life of 25 years start of service 1987 Opportunity cost 124 Ne. of Members ? Period Jul.1979 - May 1982 (34 menths) Tool MM 109.94 Heid Jul.2014 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER Tool 497, 100 (Y000)	Central Consultant, In F/S on the highway dev	c. elopment						
8. DATE OF S/W Nov.1978 4. FEASIBILITY AND ITS ASSUMPTIONS EIRR ITS ASSUMPTIONS FIR Dist 2 - 19.1N 2017.4 - 17.5N 9. CONSULTANT(S) Feasibility: 2017.4 - 17.5N Dist 2 - 19.1N 2017.4 - 17.5N Dist 2 - 19.1N 2017.4 - 17.5N 10. STUDY TEAM Conditions and Development Impacts: 1) Project life of 25 years Start of service 1987 Opportunity cost 124 2. MAJOR REASONS FOR PRESENT STATUS 10. STUDY TEAM 2) Project life of 25 years Start of service 1988 Opportunity cost 124 2. MAJOR REASONS FOR PRESENT STATUS 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE Total 497, 100 (¥'000) 497, 100 (¥'000) 10.100 (¥'000)		•	Implementation Period:					
S. DATION OT M ROV. 1978 ITS ASSUMPTIONS 1)18-2 - 19.1% 9. CONSULTANTI(S) 101.1978 1)18-2 - 19.1% 2)17.4 - 17.3% Central Consultatn, Inc. Feasibility: 2)17.4 - 17.3% Conditions and Development Impacts: 1) Project life of 25 years Statt of service 1997 10. STUDY TEAM Opportunity cost 12% 2. MAIOR REASONS FOR PRESENT STATUS No. of Members ? Project life of 52 years Start of service 1988 Opportunity cost 12% 2. MAIOR REASONS FOR PRESENT STATUS Total M/M 109.94 Subcontraction Start of service 1988 Opportunity cost 12% Start of service 1988 Opportunity cost 12% 3. PRINCIPAL SOURCES OF INFORMATION I2. EXPENDITURE 0 Total 497,100 (¥'000)				2) 1982 - 1990				
9. CONSULTANT(S) Central Consultatn, Inc. Central Consultatn, Inc. Conditions and Development Impacts: 1) Project Life of 25 years Start of service 1987 Opportunity cost 12% No. of Members ? Period Jul.1979 - Nay 1982 (34 months) Total M/M 109.94 Japan 7.8 Field 102.14 II. ASSOCIATED ANI/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER (0) Total 497, 100 (¥'000)	8. DATE OF S/W	Nov.1978	4. FEASIBILITY AND	EIRR FIRR				
Conditions and Development Impacts: 1) Project life of 25 years 10. STUDY TEAM Start of service 1987 No. of Members ? Priod Period Jul. 1979 - May 1982 (34 months) Total MAM 109.94 Japan 7.8 Field 102.14 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER 12. EXPENDITURE Total 497, 100 (¥'000)	9. CONSULTANT(S)							
1) Project life of 25 years start of service 1987 Opportunity cost 12% No. of Members ? Period 2) Project life of 25 years Start of service 1988 Opportunity cost 12% 2) Project life of 25 years Start of service 1988 Opportunity cost 12% 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 12. EXPENDITURE Total 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE Total 0	Central Consultatn, In		Feasibility:		_			
10. STUDY TEAM Start of service 1987 No. of Members ? Opportunity cost 12% Period Jul.1979 - May 1982 (34 months) Total M/M 109.94 Japan 7.8 Field 102.14 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER 12. EXPENDITURE Total 497, 100 (¥'000)	· · ·	•)	-				
No. of Members ? ? Period Jul.1979 - May 1982 (34 months) Total M/M 109.94 Japan 7.8 Field 102.14 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER 2. MAJOR REASONS FOR PRESENT STATUS 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE Total 497, 100 (¥'000)			Start of service 19	87				
Period Jul. 1979 - May 1982 (34 months) Total M/M 109.94 Japan 7.8 Field 102.14 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER 12. EXPENDITURE Total 497, 100 (¥'000)	10. STUDY TEAM		Opportunity cost 12					
Total M/M 109.94 Japan 7.8 Field 102.14 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER 12. EXPENDITURE Total 497,100 (¥'000)		9 - May 1982 (34 months)			2.	MAJOR RE	EASONS FOR PRESENT ST	ATUS
Japan 7.8 Field 102.14 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE 0 Total 497,100 (¥'000)		5 May 1901 (01 monthloo)	E	and the second				
Field 102.14 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE 497, 100 (¥'000)								
SUBCONTRACTED STUDY 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE 10 Total 497,100 (¥'000)	Field 102.1							
5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE 1 Total 497,100 (¥'000)								
12. EXPENDITURE (1) Total 497,100 (¥'000)		l Anna anna anna anna anna anna anna anna		· · ·				
12. EXPENDITURE 3. TECHINCAL TRANSFER 10 10						PRINCIPA	L SOURCES OF INFORMA	TION
Total 497,100 (¥'000)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	5. TECHINCAL TRANSFI	<u>BR</u>				
	المتحاصي والمحاج والمحاج والمحاج والمحاج والمتحاج والمحاج المحاج المحاج والمحاج والمحا	107 100 00000				n .		
	Total Contracted	497,100 (¥'000) 470,259						· · · ·

PROJECT SUMMARY (F/S)

I. OUTLINE OF	STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STU
1. COUNTRY Mal	aysia	1. SITE OR AREA	1. PRSENT Completed or in Progress
2. NAME OF STUDY	<u></u>	Kinabatangan River Basin/Eastern Saba	STATUS () Completed
Kinabatangan River Basin De	velopment Project	(U\$\$1=230Yen=2.3M\$)	O Implementing
		2. PROJECT COSTS Total Cost Local Cost Foreign Cost	O Processing [
		1) 1,050,300 428,600 621,700	(Description)
3. SECTOR	<u>, , , , , , , , , , , , , , , , , , , </u>	(US\$1,000) 2) 3)	
Social Infrastructures/ Wat Development	er Resource	3. CONTENTS OF MAJOR PROJECT(S)	Suspended after the completion of F/S.
		Contents Scope	The provincial government is interested implementation and requesting the Centr
4. REFERENCE NO.		Construction of dam Volume of dam: 5.32 x 10cu.m	include the project in the Sixth Five Y
5. TYPE OF STUDY F/S		(Midstream) Height: 50m approx.	Plan.
6. COUNTERPART AGENCY		Preparation of housing site 48,700ha (Area of land developed)	
Sabah Econiomic Planning Un	it		
7. OBJECTIVES OF STUDY	· · · · · · · · · · · · · · · · · · ·	Generators 10.5MW (3 units)	
		Transmission line 100km	
Water resource development irrigation and power genera			
		Implementation Period: Jul. 1983 - Dec. 1992	
8. DATE OF S/W Oct.	1979	4. FEASIBILITY AND EIRR FIRR	
9. CONSULTANT(S)		ITS ASSUMPTIONS 7.1%	
CTI Engineering Co. Ltd.		Feasibility: No	
Chuo Kaihatsu Corporation		Conditions and Development Impacts:	
		The chief objective of the construction of a dam is flood control.	
10. STUDY TEAM	······································	A long abandoned waste land of 107,000ha because of flood damage will become suitable for agricultural development.	
No. of Members 9		The country will become rice export country instead. And power	2. MAJOR REASONS FOR PRESENT STATUS
Period Dec.1980 - Ma	ar.1982 (15 months)	generation by the reservoir water is utilized for industrial development of Sandakan City, the second largest city in Saba.	1. Difficulty of raising \$600 million
Total M/M 68.70	1997 - 19		2. Difficulty of adjusting the existing
Japan 35.15 Field 33.55			
1. ASSOCIATED AND/OR			
SUBCONTRACTED STUDY			
Survey Geological Survey			
•		5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
2. EXPENDITURE		1. Acceptance of Trainees: Visiting Asst. Director Chief	0
Total 1	48,759 (¥'000)	engineer taken up study of basin development project for 3 weeks in Japan.	
Contracted 1	38,406		L
和名 キナバタンガン河流域開発	各計画		
		-213-	
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Compiled Revised	March 1986 March 1992
UDIED PR	OJECT
Promoting	
Delayed or	Suspended ed or Cancelled
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n in foreign ing land use.	
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ASE MYS/S 305/82		PROJECT SUMMARY (F/S)	Compiled March 1990 Revised March 1992
I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT Completed or in Progress Promoting
2. NAME OF STUDY		Kuala Lumpur metropolitan area	STATUS Completed
Reclamation Project of Housing Development and	Ex-Mining Land for Other Purposes	2. PROJECT COSTS Total Cost Local Cost Foreign Cost	Implementing Delayed or Suspended Processing Discontinued or Cancelled
3. SECTOR		1) (US\$1,000) 2) 3)	(Description)
Social Infrastructures/ Housing	/ Architecture &	3. CONTENTS OF MAJOR PROJECT(S) The project aims to utilize the ex-mining area for	After the completion of the study, another feasibility study was conducted for the entire metropolitan area, but the implementation was delayed due to the worsening of the
4. REFERENCE NO.	· · · · · · · · · · · · · · · · · · ·	developing low-cost housing projects in metropolitan Kuala Lumpur, During the first stage, it will be necessary to	economic situation(Feb. 1982). Based on the findings of the study, a JICA expert was
5. TYPE OF STUDY	F/S	provide housing for 233,000 squatters (25% of the	sent to the Ministry of Federal Territory for two years.
6. COUNTERPART AGENCY	ال این منظر ہوتی ہے۔ جن میں عالم میں کا ایپ _ک یفر کو کا ایپ کر میں میں ایپ میں ایپ کر میں ایپ کر میں ایپ کر میں	population of the Federal Territory), at a cost of US\$4,900 - 8,320 per unit. The following actions will be	Land development of the ex-mining areas has been carried out by both the public and the private sector.
Ministry of Federal Ter	rritory	necessary before implementation. 1) To conduct the subsurface exploration in the ex-mining area to prepare a land classification map.	
7. OBJECTIVES OF STUDY		 To formulate land use and housing development plans and thereby to improve the soft ground. 	
To examine the possibil ex-mining land for hous	ity of utilizing the sing development		
		Implementation Period: 1981 –	
8. DATE OF S/W	Mar.1979	4. FEASIBILITY AND EIRR FIRR	
9. CONSULTANT(S)		ITS ASSUMPTIONS	
Kiso-Jiban Consultants	Co., Ltd.	Feasibility: Yes	
		Conditions and Development Impacts: The ex-mining area occupies 14% of the land area of the Federal Territory. It is relatively easy to develop not only	
10. STUDY TEAM		housing but also sewerage, green areas and parks, roads and	
No. of Members ?		other infrastructural facilities.	2. MAJOR REASONS FOR PRESENT STATUS
Period Dec.197 Total M/M 17.99 Japan 9.12		The housing development for sale and rent at commercial prices will be feasible. At subsidized prices, low-story houses built on the firm ground will be feasible.	The land price of the ex-mining areas in the metropolitan area is generally low enough to implement large-scale low-cost housing projects.
Field 8.87			
SUBCONTRACTED STUDY			
		5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
12. EXPENDITURE	<u></u>	1) Participation of the counterparts in the JICA training	
Total Contracted	132,700 (¥'000) 85,954	program 2) OJT	

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	TUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF USE OF	STUDY RESULTS
. COUNTRY Malay	A REAL PROPERTY AND A REAL	1. SITE OR AREA	1. PRSENT In Progress or In Use	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>
. NAME OF STUDY		Sections : Butterworth-Johor Bahru(West Courst Line) ; Kuala Lumpur-Kuantan-Kota Bharu	STATUS Delayed	
ailway Development Plan		2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS Total Cost Local Cost Foreign Cost	(Description)	and in 1004 and 1005
S. SECTOR		(US\$1,000) 1) 4,635,600 2)	Following this study, a F/S was conduct on the proposed A-A as a master plan.	.ea 10 1964 and 1963
'ransportation/ Railway	:	3. MAJOR PROJECT(S) PROPOSED	The master plan has been utilized as a for drawing up railway policies. At pl	
. REFERENCE NO.	·····	As alternatives for railway development, the four cases of A-A, B-B, C-B, and D-C were established. A-A was then proposed as	are being made for materializing the de West Coast Line (between Rawang and Se	puble tracking of the
. TYPE OF STUDY M/P		the master plan having a target year of 2005.		
COUNTERPART AGENCY		case A-A : West Coast Line New East-West Line		
Malaysian Railway Administra	tion	Standard gauge Standard gauge Electrification Electrification Double tracking Double tracking		
OBJECTIVES OF STUDY		Case A-A EIRR 13.8% FIRR 9.4%		
onventional line and construct tandard line for reinforcing ailway.	g the national	4. CONDITIONS AND DEVELOPMENT IMPACTS		
CONSULTANT(S)	982	4. CONDITIONS AND DEVELOPMENT IMPACTS		
apan Railway Technical Serv	ice	 Status of the world economy in the future and its impact Highly accurate technical studies(especially, geological studies) Methods for gradual implementation Personnel training to raise level of technical expertise 		
0. STUDY TEAM		 Construction cost reduction and system for obtaining governmental assistance Expansion of the scope of work and improvement in work efficiency Development impacts : 	and a second	
U.STUDI ICAM		 More appropriate distribution of population and industries on a region - wide besis 	2. MAJOR REASONS FOR PRESENT STATUS	
No. of Members 28	1000 /10 markt - 1	 Future development of such cities as Penang, Johor, Kota Bharu, Kuala Trenggana, and Kuantan, which are 300 to 500km from Kuala Lumpur, into regional centers as a 	The drastic modification of policies du	
Period Sep.1982 - Oct Total M/M 119.63 Japan 79.43 Field 40.15	.1983 (13 months)	result of the rail mode's advantageous intercity transport characteristics at the aforesaid distances 3. Energy savings 4. Large-Volume and fixed-pattern freight transport (iron, cement, oil, etc.) between key points possible	the economic situation has made it imposed large-scale investment. For the time be investment alone will be made depending its urgency.	eing, partial
Period Sep.1982 - Oct Total M/M 119.63 Japan 79.48	.1983 (13 months)	aforesaid distances 3. Energy savings 4. Large-Volume and fixed-pattern freight transport (iron, cement, oil, etc.) between	large-scale investment. For the time be investment alone will be made depending	eing, partial
Period Sep.1982 - Oct Total M/M 119.63 Japan 79.48 Field 40.15 1. ASSOCIATED AND/OR 1	.1983 (13 months)	aforesaid distances 3. Energy savings 4. Large-Volume and fixed-pattern freight transport (iron, cement, oil, etc.) between	large-scale investment. For the time be investment alone will be made depending its urgency.	eing, partial upon the degree of
Period Sep.1982 - Oct Total M/M 119.63 Japan 79.48 Field 40.15 1. ASSOCIATED AND/OR 1	.1983 (13 months)	aforesaid distances 3. Energy savings 4. Large-Volume and fixed-pattern freight transport (iron, cement, oil, etc.) between key points possible	large-scale investment. For the time be investment alone will be made depending	eing, partial upon the degree of

ASE MYS/S 307 /83	PROJECT SUMMARY (F/S)	Compiled March 19 Revised March 19
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1. COUNTRY Malaysia	1. SITE OR AREA Saba and Sarawak	1. PRSENT Completed or in Progress Promoting
2. NAME OF STUDY VHF/FM Broadcast Coverage for the States of Sabah and Sarawak	2. PROJECT COSTS (US\$1=250Yen) Total Cost Local Cost Foreign Cost	STATUS O Completed Implementing Implementing Delayed or Suspended Processing Discontinued or Cancelle
3.SECTOR Communications & Broadcasting/ Broadcasting	1) 57,500 36,500 21,000 (US\$1,000) 2) 3) 3. CONTENTS OF MAJOR PROJECT(S)	(Description) The implementation was divided into three phases, combining 15 stations planned for Peninsular Malaysia. The
4. REFERENCE NO. 5. TYPE OF STUDY F/s	 FM transmitting stations(22 stations): 7 new stations; 15 stations to be attached to the existing TV stations Construction of FM studio FM transmitters; 	projects proposed by the study was scheduled for the 6th national development plan. The tender was done on one station in Sarawak (Bukit Nyabau), and the construction started in 1990.
6. COUNTERPART AGENCY Economic Planning Unit, Prime Minister's Department	6 units for each transmitting stations	Government of Malaysia is now being implemented tender notice of the project for supply and installation for FM transmitter by self funds on December, 1991.
7. OBJECTIVES OF STUDY		
	Implementation Period:	
8. DATE OF S/W Mar. 1982 9. CONSULTANT(S) Integrated Technology Inc.	4. FEASIBILITY AND EIRR FIRR ITS ASSUMPTIONS Feasibility: Yes	
	Conditions and Development Impacts: FM broadcasting will contribute to the improvement of education and the diffusion of knowledge and skills.	
10. STUDY TEAMNo. of Members14PeriodJun.1982 - Mar.1983 (10 months)		2. MAJOR REASONS FOR PRESENT STATUS
Total M/M 22.00 Japan 18.67 Field 3.33		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		
	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
12. EXPENDITURE Total 55, 208 (¥'000) Contracted 32, 256	 OJT during the study Participation of 2 counterparts in the JICA training program 	
和名 東マレイシアFM放送網整備計画		{F/S, (M/P)+F/S, D/D

LCOUNTRY Malaysia I.STRT OR AREA I: PASENT 2.NANGORSTUDY Johon: Bahtu Urbait Acea I: Dispid Jahrangani Contribution Johon: Bahtu Urbait Acea I: Dispid Jahrangani Contribution 2.00575 DF (MOORSED PLANCK) Total Cost. Local Cost. Processin Cost. J.SECTON J: Dispid 2.00575 DF (MOORSED PLANCK) Total Cost. Local Cost. J.SECTON J: Dispid Cost. J: Dispid Cost. Dispid Cost. J.SECTON J: Dispid Cost. J: Dispid Cost. Dispid Cost. J.SECTON J: Dispid Cost. J: Dispid Cost. Dispid Cost. J: Transportation / Road J: Dispid Cost. Dispid Cost. Dispid Cost. J: Dispid Cost. J: Dispid Cost. Dispid Cost. Dispid Cost. J: Dispid Cost. J: Dispid Cost. Dispid Cost. Dispid Cost. J: Dispid Cost. J: Dispid Cost. Dispid Cost. Dispid Cost. J: Dispid Cost. J: Dispid Cost. Dispid Cost. Dispid Cost. J: Dispid Cost. J: Dispid Cost. Dispid Cost. Dispid Cost. J: Dispid Cost. J: Dispid Cost. Dispid Cost. Dispid Cost. S: DITE OF S/W Jan. 1991 Cost. Cost. Dispid Cost. S: Ditoof Sect. Dispid Cost.<	I. OUTLIN	E OF STUDY	II. SUM	MARY OF STUDY RESULTS	III. PRESE	NT STATUS OF USE O	F STUDY RESUL
International Section Sectin Section Section Section Section Section Section Se	1. COUNTRY	Malaysia	1. SITE OR AREA		1. PRSENT	In Progress or In Use	
JB-Transport lof the Joint 2. COSTS OF PRONSPERANCE MAIOR REGISTION Total Cost Local Cost Porsign Cost 3.SECTOR US53,000 1 21 Transport tion / Road 3 MAIOR REGISTION PRODECID The study was followed by the feasibility sendy on four priority projects. 3.SECTOR 1 Road development plan 21 1 Road development plan 21 The study was followed by the feasibility sendy on four priority projects. 3.TRANSPORTING 1 Road development plan 21 2 Inprovement of John Commany 21 The study was followed by the feasibility sendy on four priority projects. 5.TYPE OF STUDY M/P+(F/5) 3 Transport tion transport 21 1 Road development plan 21 5.TYPE OF STUDY M/P+(F/5) 3 Transport tion transport 21 1 Register to plan 21 6.COUNTREPART AGENCY 23 1 Register to plan 21 2 Inprovement of John Bubble cameway Formulation of the integrated transport system through the year 2000 3 The study proposed the integrated transport of 2000. 7.New of Member 11 Pride The study proposed the integrated transport of 2000. 2.MAJOR REASONS FOR PRESENT STATUS 1.ANSOCATED ANDOR states 5. TECHINCAL TRANSPER 3. PRINCIPAL SOURCES OF INFORMATION 00 0	2. NAME OF STUDY		Johor Bahru Urbar	Area	STATUS		
3.SECTOR (US31,000) 21 transportation/Road 3.MAOR PROPOSED priority projects. 4.REFERENCE NO. 1 Boad development plan 1 1. Public transportation plan 1 Public transportation plan 1 2. TYPE OFSTUDY M/P+(f/S) 1 Transportation plan 1 5. COUNTERPART AGENCY 1 Provement of Jokor Bahru causeway 1 6. COUNTERPART AGENCY 1 Provement of Jokor Bahru causeway 1 7. OBJECTIVES OF STUDY 4. CONDITIONS AND DEVELOPMENT IMPACTS 1 1 7. OBJECTIVES OF STUDY 4. CONDITIONS AND DEVELOPMENT IMPACTS 1 1 9. CONSULTANT(S) Ternanglani toward the target year of 2000. 1 1 Physica Consultants International, Inc. and Choidal Co., Itd. The study propaged the foregrated transport target year of 2000. 2 10. STUDY TEAM 2. MAJOR REASONS FOR PRESENT STATUS 2. MAJOR REASONS FOR PRESENT STATUS 9 S. 25 7.64 5.35 3. PRINCIPAL SOURCES OF INFORMATION 10. SUDOY TEAM 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 0 12. EXPENDITURE 443,511 (9'000) </td <td>Bahru Conurbation</td> <td>ansport for the Johor</td> <td>PROPOSED PLAN OR</td> <td>Total Cost Local Cost Foreign Cost</td> <td></td> <td></td> <td>lity study on four</td>	Bahru Conurbation	ansport for the Johor	PROPOSED PLAN OR	Total Cost Local Cost Foreign Cost			lity study on four
4. REFERENCE NO. 1) Road davelopment plan 2) Public transportation plan 2) Public transportation minutal 2) TYPE OF STUDY M(P+(F/S) 4. REFERENCE NO. 5. TTYPE OF STUDY M(P+(F/S) 5. TOTHE OF STUDY Economic Planning Unit 7. OBJECTIVES OF STUDY Formulation of the integrated transport system through the year 2000 8. DATE OF SNW Jan. 1981 4. CONDITIONS AND DEVELOPMENT IMPACTS 9. CONSULTANT(S) 9. CONSULTANT(S) The study proposed the integrated transport due to go and the target year of 2000. 10. STUDY TEAM No. of Mambers 11 Yead 3.35 11. ASSOCIATED ANDOR S. TECHINCAL TRANSFER 12. EXPENDITURE			and the second	2)			• • •
4. KdFMRKCB NO. 2 Public transportation plan. 2. TYPE OF STUDY M/P+ (F/S) 6. COUNTERPART AGENCY 3 10. STUDY M. M/P+ (F/S) 1 Traffic control 7. OBJECTIVES OF STUDY 1 Provement of Johor Bahru cauaway Promulation of the Integrated transport system through the year 2000 4. CONDITIONS AND DEVELOPMENT IMPACTS 9. CONSULTANT(S) The study propond the integrated transport due to reget year of 2000. 9. CONSULTANT(S) The study propond the target year of 2000. 10. STUDY TEAM	Transportation/ Road						
S. TYPE OF STUDY M/P+(E/S) 3) Transportation terminats G. COUNTERPART AGENCY 5) Traffic control 5) Traffic control S. TODIVIERPART AGENCY 5) Improvement of Johor Bahru causeway Formulation of the integrated transport system through the year 2000 4. CONDITIONS AND DEVELOPMENT IMPACTS 8. DATE OF SW Jan. 1981 4. CONDITIONS AND DEVELOPMENT IMPACTS 9. ODSULTANT(3) The study proposed the integrated transport to system (Declar to , bd.) The study proposed the integrated transportation system (Declar to , bd.) 10. STUDY TEAM Improvement of Johor Signan to ard the target year of 2000. 2. MAJOR REASONS FOR PRESENT STATUS No. of Member 11 Prive Signaphic Survey 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION geolog(cal survey topographic Survey 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION	4. REFERENCE NO.		 Road development Public transport; 	plan ation plan			
6. COUNTERPART AGENCY 5) Teprovement of Johor Bahru causeway 7. OBJECTIVES OF STUDY	5. TYPE OF STUDY	M/P+(F/S)	3) Transportation to	erminals			
7.0BJECTIVES OF STUDY Image: Constitution of the integrated transport system through the year 2000 8. DATE OF S/W Jan. 1991 4. CONDITIONS AND DEVELOPMENT IMPACTS 9. CONSULTANT(S) The study proposed the integrated transport signed transport transport in system (bit distants international, inc. and Choid in Co., Ltd. The study proposed the integrated transport signed transport signed to and the target year of 2000. 10. STUDY TEAM Image: Consultant inc. and Supposed the integrated transport signed to and the target year of 2000. 10. STUDY TEAM Image: Consultant inc. and Supposed the integrated transport signed to and the target year of 2000. 10. STUDY TEAM Image: Consultant inc. and Supposed the integrated transport inc. and Supposed the integrated transport signed to any 1981 - Dec. 1983 (19 monthe) Total MM 72.63 1. ASSOCIATED ANDOR S. TECHINCAL TRANSFER 10. Add and the dat	6. COUNTERPART AGENCY			ohor Bahru causeway			
Formulation of the integrated transport system through the year 2000 4. CONDITIONS AND DEVELOPMENT IMPACTS 8. DATE OF S/W Jan. 1981 4. CONDITIONS AND DEVELOPMENT IMPACTS 9. CONSULTANT(S) The study proposed the integrated transportation system (DB-Transplan) toward the target year of 2000. Image: Construction system 10. STUDY TEAM The study proposed the integrated transport of 2000. 2. MAJOR REASONS FOR PRESENT STATUS No. of Membern 11 Period No. of Membern 12 (DB-Transplan) toward the target year of 2000. 2. MAJOR REASONS FOR PRESENT STATUS 10. STUDY TEAM S. 25 (Field State) 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDIFIURE Jan. 511 (Y000) 0	Economic Planning Uni	t					
Formulation of the integrated transport system through the year 2000 4. CONDITIONS AND DEVELOPMENT IMPACTS 8. DATE OF S/W Jan. 1981 4. CONDITIONS AND DEVELOPMENT IMPACTS 9. CONSULTANT(S) The study proposed the integrated transportation system (DB-Transplan) toward the target year of 2000. Image: Construction system 10. STUDY TEAM The study proposed the integrated transport of 2000. 2. MAJOR REASONS FOR PRESENT STATUS No. of Membern 11 Period No. of Membern 12 (DB-Transplan) toward the target year of 2000. 2. MAJOR REASONS FOR PRESENT STATUS 10. STUDY TEAM S. 25 (Field State) 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDIFIURE Jan. 511 (Y000) 0		·····					
system through the year 2000 8. DATE OF SW Jan. 1981 9. CONSULTANT(S) Fukuyama Consultants International, Inc. and Chodia Co., Ltd. 10. STUDY TEAM No. of Members 11 Period May 1991 - Dec. 1983 (19 months) Total MM 72.63 Jacon 9.27 Field 63.36 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY topographic survey Total 443,511 (¥000) (0.							
9. CONSULTANT(S) FURUyama Consultants International, Inc. and Chodai Co., Ltd. 10. STUDY TEAM No. of Members 11 Period May 1981 - Dec. 1983 (19 months) Total M/M 72.63 Japan 9.27 Field 63.36 11. ASSOCIATED AND/ATED AND/	Formulation of the in system through the ye	tegrated transport ar 2000					
9. CONSULTANT(S) FURUyama Consultants International, Inc. and Chodai Co., Ltd. 10. STUDY TEAM No. of Members 11 Period May 1981 - Dec. 1983 (19 months) Total M/M 72.63 Japan 9.27 Field 63.36 11. ASSOCIATED AND/ATED AND/							
9. CONSULTANT(S) FURUyama Consultants International, Inc. and Chodai Co., Ltd. 10. STUDY TEAM No. of Members 11 Period May 1981 - Dec. 1983 (19 months) Total M/M 72.63 Japan 9.27 Field 63.36 11. ASSOCIATED AND/ATED AND/						•	
Fukuyama Consultants International, Inc. and Chodai Co., Ltd. The study proposed the integrated transportation system (JB-Transplan) toward the target year of 2000. 10. STUDY TEAM	and the second	Jan.1981	4. CONDITIONS AND	DEVELOPMENT IMPACTS			
No. of Members 11 Period 2. MAJOR REASONS FOR PRESENT STATUS Total M/M 72.63 Japan 9.27 Field Field 63.36 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER geological survey topographic survey 5. TECHINCAL TRANSFER 12. EXPENDITURE (1) Total 443,511 (¥000)	Fukuyama Consultants] International, Inc. and	The study proposed (JB-Transplan) toway	d the integrated transportation system rd the target year of 2000.		· · · ·	
No. of Members 11 Period 2. MAJOR REASONS FOR PRESENT STATUS Total M/M 72.63 Japan 9.27 Field Field 63.36 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER geological survey topographic survey 5. TECHINCAL TRANSFER 12. EXPENDITURE (1) Total 443,511 (¥000)							· · · · ·
No. of Members 11 Period 2. MAJOR REASONS FOR PRESENT STATUS Total M/M 72.63 Japan 9.27 Field Field 63.36 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 5. TECHINCAL TRANSFER geological survey topographic survey 5. TECHINCAL TRANSFER 12. EXPENDITURE (1) Total 443,511 (¥000)	10. STUDY TEAM	T					·
Total M/M 72.63 Japan 9.27 Field 63.36 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY geological survey topographic survey 5. TECHINCAL TRANSFER 12. EXPENDITURE Total 443, 511 (¥'000)					2. MAJOR RE	ASONS FOR PRESENT STATU	S
Japan 9.27 Field 63.36 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Period May 1	981 - Dec.1983 (19 months)					
Field 63.36 11. ASSOCIATED AND/OR SUBCONTRACTED STUDY geological survey topographic survey 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE Total 443, 511 (¥'000)							
SUBCONTRACTED STUDY geological survey topographic survey 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE Total 443, 511 (¥'000)							
geological survey 5. TECHINCAL TRANSFER 3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE (1) Total 443, 511 (¥'000)	11. ASSOCIATED AND/OR SUBCONTRACTED STUD						
3. PRINCIPAL SOURCES OF INFORMATION 12. EXPENDITURE Total 443, 511 (¥'000)	geological survey				-		
Total 443,511 (¥'000)	topographic survey		5. TECHINCAL TRAN	SFER	3. PRINCIPAI	L SOURCES OF INFORMATION	N N
Total 443,511 (¥'000)	14 TWDDMDMDMD			tana ara- bara ara-dara ara-dar Ara-dara ara-dara ara-dara-d	(1)	<u></u>	<u>ب</u>
	Total						

SE MYS/S 206B/84		PROJECT SUMMARY (M/P + F/S)			Compiled Revised	March 19 March 19
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PR	ESENT STATUS OF	STUDIED PR	OJECT
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT	Completed or in Progress	Promoting	\$
2. NAME OF STUDY		Johor Bahru and its adjacent areas	STATUS	O Completed		
JB-Transplan: Road Cor Improvement Project in Conurbation	nstruction and n Johor Bahru and its	2. PROJECT COSTS Total Cost Local Cost Foreign Cost		 Implementing Processing 		Suspended
3. SECTOR		1) 155,457 100,652 54,804 (US\$1,000) 2)	(Description)			
Transportation/ Road	_] ·			cially approved to inc		
		3. CONTENTS OF MAJOR PROJECT(S) 1) Construction of new road	5th five-ye Subsequentl	ear national developmen by, the implementation	t plan (1986 - 1 was postponed to	990). the 6th
4. REFERENCE NO.		Johor Bahru - South Pasir Gudang (20km) 2) Traffic separation on the causeway	development	plan period due to th	e fiscal constra	ints.
5. TYPE OF STUDY	(M/P)+F/S	improvement of the existing road (310ha in CBD)	Traffic ser existing ro	paration on the causewa	y improvement of	the
6. COUNTERPART AGENCY		Road (4km)	In this pr	coject, P/P is already	-	
Economic Planning Unit, and Hi Ministry of Public Works	ghway Planning Unit of the	 Inner ring road and trolley routes New construction and improvement (8xm) 	Johor Bahru	planned to be started 1 Toll road		• •
7. OBJECTIVES OF STUDY					project, but it f the land has r	
Feasibility analysis oproposed by the master			finished yet.			
		Implementation Period: 1985 - 2000				
	· .					
B. DATE OF S/W	Jun.1982	4. FEASIBILITY AND EIRR FIRR ITS ASSUMPTIONS 12.3-32.7				
D. CONSULTANT(S)		Feasibility: Yes				
Fukuyama Consultants I Chodai Co., Ltd.	International, Inc. and	Conditions and Development Impacts:				
		Conditions:				
0. STUDY TEAM	1	The calculation of IRR is based on the O/D motorized traffic projections made during the master plan study on the basis of		··· · · · · · · · ·		
No. of Members 11		the interview survey of owner drivers. The projections were made for the years 1990 and 2000. Road classes were determined	2. MAJOR RE	ASONS FOR PRESENT ST	TATUS	
Period May 19	181 - Dec.1983 (19 months)	according to the standards of the Ministry of Public Works. Development impacts:	Deteriorat.	ion of the economic sit	uation due to th	ne declir
Total M/M 72.		The projects will contribute to the development of new		primary commodities for		
Japan 9. Field 63.		industries and port operations, the alleviation of traffic congestions in the CBD, and shortening of travel time,				
1. ASSOCIATED AND/OR		reduction of transportation costs and decrease of traffic accidents.				
SUBCONTRACIED STUDY						
geological survey topographic survey						
		5. TECHINCAL TRANSFER	3. PRINCIPAI	L SOURCES OF INFORM	TION	
2. EXPENDITURE		OJT for the counterparts on feasibility analysis	1			
Total Contracted	443,511 (¥'000) 223,742					:
和名 ジョホールバル道	路交通計画			· · ·	{F/S, (M/P))+F/S, D/E
		-218-				
		₩ ₩ ₩₩			. :	

I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT Completed or in Progress Promoting
2. NAME OF STUDY	، ۲۰۰۳ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰ ۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰	Perlis	STATUS O Completed
Perlis Port Development	Project	(US\$1=2,3M\$)	Implementing Delayed or Suspended
		2. PROJECT COSTS (US\$1=2.3M\$) Total Cost Local Cost Foreign Cost	O Processing Discontinued or Cancelled
		1) 2,473 2,100	(Description)
3. SECTOR	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(US\$1,000) 2) 3)	
Transportation/ Port	н. На 1	3. CONTENTS OF MAJOR PROJECT(S)	1985 Oct. OECF loan pledged 1985 Nov. E/S was signed, but the loan agreement fell
		(Item) (Quantity)	through,
4. REFERENCE NO.		Quay(~4.0m) 410m * (-3.5m) 550m	1987 Malaysian government conducted D/D with its fund (Total project cost M\$ 31 million).
5. TYPE OF STUDY	F/S	Dredging 1,412 thousand cu.m Reclamation 1,086	The implementation was delayed but the project is included
6. COUNTERPART AGENCY		Revetment 1,000m	in the National Port Plan announced in 1988.
Economic Planning Unit	istrum of Museusers	Road 51,950m	1988-1989 D/D was conducted with reducing scale. Tender
Public Works Dept., Min.			price doesn't match budget and nobody tender the construction.
7. OBJECTIVES OF STUDY			1990 To cope with the lack of budget, Malaysian
Master plan, covering the 2000. Short Term Development	he period up the opment Plan up to the		government take a temporary step which implement detail design of extending the only passenger's
year 1990.	- ,	Implementation Period: Jan, 1985 - Dec, 1989	piers. 1991 Just before tender the reclamation method was
			proposed by the prvate consultant. The method is
8. DATE OF S/W		4. FEASIBILITY AND EIRR FIRR	under negotiation.
9. CONSULTANT(S)	Mar.1983	ITS ASSUMPTIONS 9.9% 4.1%	
Overseas Coastal Area De	evelopment Institute	Feasibility: Yes	
of Japan	• •	Conditions and Development Impacts:	
		As premises, target year of demand forecast is the year 1990, 2000, and cargo handling volume was assumed to be 500 thousand	
10. STUDY TEAM		ton, 835 thousand ton.	
No. of Members 9		The area surrounding the port have mining and manufacturing industries such as cement and sugar refining, and development	2. MAJOR REASONS FOR PRESENT STATUS
Period Jun.1983	~ Mar.1984 (9 months)	of industrial tracts in these areas is now in progress. It's expected that expansion of the port's commercial function will	
Total M/M 46.83		result in accelerated local and regional development. Expansion	
Japan 29.00 Field 17.83		of the fishing port and ferry function should also have positive effects.	
11. ASSOCIATED AND/OR			
SUBCONTRACTED STUDY			
Natural Condition Survey 36,461 thousand yen			
50,401 Chousand Yen		5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
		One counterpart was accepted for training, especcially on F/S	(1)
12. EXPENDITURE Total	145,809 (¥'000)	theory	
Contracted	142,594		
和名 ペルリス港開発計画			{F/S, (M/P)+F/S, D/D}

I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1. COUNTRY Malaysia	1. SITE OR AREA	1. PRSENT Completed or Promoting
2. NAME OF STUDY	Belis River, Muda River basin, the stale at koda	I. PRSENT in Progress In Producting STATUS Completed
Perlis-Kedah-Pulau Pinang Regional N	ter unter and the second	O Implementing Delayed or Suspended
Resources (National Water Resources	(US\$1=2,312M\$) (US\$1=2,312M\$) Total Cost Local Cost Foreign Cost	O Processing Discontinued or Cancel
	1) 41,800 32,950 8,850	
3. SECTOR	3)	
Social Infrastructures/ Water Resou Development	e 3. CONTENTS OF MAJOR PROJECT(S)	Suspended after the completion of F/S.
4. REFERENCE NO.	<u>Structure</u> <u>Scale</u> Gravity dam Height 41m	
5. TYPE OF STUDY F/S	Reservoir Effective storage 102MCM Firm yield 66MCM/year	
6. COUNTERPART AGENCY	Discharge capacity of	
Economic Planning Unit	outline facilities 0.2~15cu.m/s	
Economic Planning onic		
7. OBJECTIVES OF STUDY		
Water resources development		
	Implementation Period: Jun. 1987 - Dec. 1989	
	implementation renou.	
n an	4 FEASIBILITY AND EIRR FIRR	
8. DATE OF S/W Sep. 1982 9. CONSULTANT(S)	4. FEASIBILITY AND EIRR FIRR ITS ASSUMPTIONS 14.8%	
Nippon Koei Co., Ltd.	Feasibility: Yes	
Appoint toer corr hear	Conditions and Development Impacts:	
	Baris dam was designed as a part of water supply system of P.K.P areas. Firm yield is mainly divided into irrigation	
10. STUDY TEAM	water, industrial water and river maintenance flow on the	
No. of Members 20	basis of the overall water distribution plan of P.K.P.area. Th project benefit was estimated as the sum of the benefit per	2. MAJOR REASONS FOR PRESENT STATUS
Period Dec.1982 - Mar.1985 (2	months) unit yield for the respective purposes. Firm yield of 66MCM/year is supplied to the water deficit in	1) Austerity policy necessitated by fiscal deficits.
Total M/M 174.56 Japan 113.44	the P.K.P. area.	 Inter-provincial adjustments are not settled between Penang and Kedah.
Japen 113.44 Field 61.12		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		
Topographic mapping		
		3. PRINCIPAL SOURCES OF INFORMATION
·	5. TECHINCAL TRANSFER	
12. EXPENDITURE	1) training in Japan 2) Survey by local consultant:	
Total 471,245 (¥ Contracted 166,915	(00) soil and geological investigations	

PROJECT SUMMARY (F/S)

ASE MYS/A 301 /84		PROJECT SUMMARY (F/S)	Compiled March 1990 Revised March 1992		
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT		
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT Completed or Promoting		
2. NAME OF STUDY		Bengkoka Area of the state of Sabah(36,000ha)	1. PRSENT in Progress I Tomoting		
of Sabah	lement Project in koka Area of the State	2. PROJECT COSTS Total Cost Local Cost Foreign Cost 1) 90,783 76,087 14,696 (US\$1,000) 2)	Implementing Delayed or Suspended Processing Discontinued or Cancelled (Description)		
3. SECTOR		3)	Ver and it use requested beverer it has been suspended		
Forestry/ Forestry & F	orest Conservation	3. CONTENTS OF MAJOR PROJECT(S) Tree species : Acacia monagium(9,000ha)	Yen credit was requested, however, it has been suspended owing to appreciation of yen. Another Plan of forest plantation establishment on 50,000ha is now under consideration and its integration with this project is investigated.		
4. REFERENCE NO.		Infrastructure arrangement : Trunk road 46km, Branch road 135km Power distribution,			
5. TYPE OF STUDY	F/S	Water supply facilities	Under Division 1 of Settlement Plan, 200 houses have been already built by Malaysia's own fund. Project funded by the		
6. COUNTERPART AGENCY		Settlement 3,000 immigrants for 400 households at project site	World Bank was terminated with 6,000ha of tree plantation		
Sabah Forest Department Sabah Forestry Development Aut)	- hority (SAFODA)	*The cost above pertains to the entire period of 50 years.	during 6 years.		
7. OBJECTIVES OF STUDY	1				
To promote tree planta people on degraded for shifting cultivation a		Implementation Period:			
8. DATE OF S/W	Sept. 1983	4. FEASIBILITY AND EIRR FIRR			
9. CONSULTANT(S)		ITS ASSUMPTIONS 16.1% 11.5%			
Japan Overseas Forestr Association 10. STUDY TEAM	y Consultants	Feasibility: Yes Conditions and Development Impacts: -Settlement of shifting cultivator, improvement of local people's income and improvement of forest resources -FIRR is calculated only for the afforestational phase			
No. of Members 9 Period Feb.19	- 84 - Sep.1984 (8 months)	-Annual cash income will be in the black 17 years after cutting starts and cumulated deficit will solve after 22 years	2. MAJOR REASONS FOR PRESENT STATUS		
Total M/M Japan Field					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
		5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION		
12. EXPENDITURE Total Contracted	122,966 (¥'000) 111,470	Acceptance of one C/F participant			

和名。サバ州ペンコカ地区造林・入植計画

ASE MYS/S 103/85		PRO	JECT SUMMARY (M/P)	22-14-14-15-15-14-14-14-14-14-14-14-14-14-14-14-14-14-	an markan un bauer zus seinen seine seinen seinen seine seine konnen vormen seine seine seinen seine seine sein	Compiled Revised	March 1990 March 1992
I. OUTLINE OF ST	UDY	II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF USE OF STUDY RESU		RESULTS	
1. COUNTRY Malays	a	1. SITE OR AREA	gente de la constant anna de la constant de la cons La constant de la cons	1. PRSENT	In Progress or In Use		
2. NAME OF STUDY	¢ μηνα αποπολ ικέρα κ _α αγγοριατώ ^{μα} Συδιάτου κατογ ^{τατικ} α		Trengganu State (5,370 sq.km, approx. state total land area)	STATUS	Delayed Discontinued		
Integrated Development of Sout	h Trengganu	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS Total Cost Local Cost Foreign Cost		A			
3. SECTOR		(US\$1,000)	1) 2)	industries w	study was being undertaken, was one of the important pol	icy in Mala	iysia.
Development Plan/ Integrated F Development Plan	legional	3. MAJOR PROJECT(S) PROPOSED	industrial d	, the policy emphasis began concentration in urban areas d with petroleum and natural	. Trengganu	i State is
4. REFERENCE NO.			ries utilizing petroleum and natural gas elopment of the inland area (Ketangah)	well endowed with petroleum and natural gas, and the government emphasis in regional development was placed on			
5. TYPE OF STUDY M/P		 3) Transportation: 4) Flood control: m 	roads, airports, ports, etc. ajor rivers and the coastline	The state	eveloped states. government has strong inter	est in the	
6. COUNTERPART AGENCY Trengganu State Economic Planning Unit		 5) Tourism: coastal and inland areas 6) Urban development: development in association with coastal industrial location 7) Human resource development: politechnics, R & D 		implementation of the proposed plan.			
7. OBJECTIVES OF STUDY		organization and	vocational training centers	2		:	
Formulation of an integrated r development plan and pre-feasi analysis of priority projects							
8. DATE OF S/W Apr. 198	32	4. CONDITIONS AND	DEVELOPMENT IMPACTS		• ************************************		
9.CONSULTANT(S) Pacific Consultants Internatic Mitsubishi Research Institute,			ion of local resources development for stable labor supply and			÷	
10. STUDY TEAM	······································						· .
No. of Members 22 Period Jan. 1984 - Aug. J	985 (19 months)			2. MAJOR REA	ASONS FOR PRESENT STATUS		
Total M/M Japan Field							
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	· · ·				andra († 1997) 1940 - Stan Stan Stan († 1997) 1940 - Jan Stan Stan († 1997)		
	•	5. TECHINCAL TRAN	Counterparts in the JICA training program	3. PRINCIPAL	SOURCES OF INFORMATION		
12. EXPENDITURE Total 295, Contracted	164 (¥'000)	 Participation of 2) OJT for the coun study 	counterparts in the JICA training program terparts through joint undertaking of the	0	,,,,,,,		

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和名 トレンガヌ南部地域総合開発計画

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

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ASE MYS/S 104/85		PROJECT SUMMARY (M/P)			Compiled Revised	March 1988 March 1992
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF USE OF STUDY RESULT			RESULTS
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT	In Progress or In Use		· · ·
2. NAME OF STUDY		Sayong Dam(Kota Tinggi district)	STATUS	 Delayed Discontinued 		
Regional Water Resourc (National Water Resour	es of South Johor ces Study)	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS 1) 168,000 (US\$1=2.41M\$) Total Cost Local Cost Foreign Cost 1) 168,000	1 .	jertaken by the Malaysian s	ide, and D,	/D was
3. SECTOR		(US\$1,000) 2)		n late 1988.		
Social Infrastructures Development	/ Water Resource	3. MAJOR PROJECT(S) PROPOSED 	-Construction finance bef	on works are reported to st fore long.	art with S	ingapore's
4. REFERENCE NO.	· ·	Effective storage volume: 128 x 1,000,000 cu.m	-The priorit	y of the project appears t	o be lower	than the
5. TYPE OF STUDY	M/P	Dam height: 31 m Dam length: 1,140 m	other areas	s (e.g. Kuala Lumpur, Kuant	an).	
6. COUNTERPART AGENCY Economic Planning Unit Irrigation Department		Embankment volume: 0.81 x 1,000,000 cu.m				
7. OBJECTIVES OF STUDY	<u></u>	ad the second			÷.,	· · ·
To formulate a Master of water resources in	plan for development South Johor				· · ·	
	······································					
8. DATE OF S/W	Mar.1984	4. CONDITIONS AND DEVELOPMENT IMPACTS	ľ			
9.CONSULTANT(S) Nippon Koei Co., Ltd.		1) To formulate water supply plan up to year 2005 for Johor Bahru and Singapore				
		2) To improve human living due to development of domestic and industrial water				
10. STUDY TEAM	//////////////////////////////////////	3) To ensure economic activity by means of implementation of				
No. of Members 20 Period Jul.198	94 - Dec.1985 (18 months)	flood control measures.		SONS FOR PRESENT STATUS		
Total M/M 107. 3 Japan 65. 2 Field 42. 0	22		the governmen	supply of water is a contra at of Malaysia. In additio discouraged the large scal an.	n, the eco:	nomy has
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Boring survey (financed b	y gdht)					
		5. TECHINCAL TRANSFER 1) One trainee from Malaysia took JICA training course.	3. PRINCIPAL	SOURCES OF INFORMATION		<u></u>
12. EXPENDITURE Total Contracted	294,504 (¥'000) 235,835	2) Instruction on the production of report and analysis of boring log (geological study)	1)		• •	

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和名 南ジョホール地域水資源開発計画

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

PROJECT SUMMARY (F/S)

I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STU
1. COUNTRY Malaysia	1. SITE OR AREA	1. PRSENT Completed or in Progress
2. NAME OF STUDY	Tatau-Kapit, Sarawak	1. PRSENT in Progress STATUS O Completed
Tatau-Kapit Trunk Road Project in Sarawak		O Implementing
	2. PROJECT COSTS (US\$1=M\$2,376)	O Processing [
	Total Cost Local Cost Foreign Cost 1) 643 381 262	(Description)
3. SECTOR	- (US\$1,000) 2) 3)	(manufacture)
Transportation/ Road	3. CONTENTS OF MAJOR PROJECT(S)	Suspended after the completion of F/S. The project is under consideration in t
	Construction of a new trunk road (138.8km)	Bakun-HVDC dam project.
4. REFERENCE NO.		
5. TYPE OF STUDY F/S		
6. COUNTERPART AGENCY		
Economic Planning Unit, Sarawak State Government of Malaysian Federal Government		
7. OBJECTIVES OF STUDY		
(1) Analysis of economic and technological		
merit		
(2) Technical transfer	Implementation Period: 1982 - 1984	
B. DATE OF S/W Feb. 1982	4. FEASIBILITY AND EIRR FIRR	
P. CONSULTANT(S)	TTS ASSUMPTIONS 5.89 8	
Mitsui Consultants Co., Ltd.	Feasibility: Yes	
	Conditions and Development Impacts:	
	This project contributes not only to the provision of access road for the construction of the hydro-electric power station,	
IO. STUDY TEAM	but also to the development of lumber, mineral and tourism industries.	
No. of Members 16	Industries.	2. MAJOR REASONS FOR PRESENT STATUS
Period Jul.1982 - Dec.1982 (10 months) May 1984 - Aug.1984		-Alteration of priority
Total M/M 26.38		-Delay of related projects -Financial difficulty
Japan 15.5 Field 10.88	(a) A set of the se	
1. ASSOCIATED AND/OR		
SUBCONTRACTED STUDY		
	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
	(1) Reception of trainees	0
12. EXPENDITURE 241, 601 (¥'000)	(2) Hiring of local consultants in the sectors of designing and	
Contracted 134,850	survey.	
Total 241,601 (¥'000)	(2) Hiring of local consultants in the sectors of designing and survey. $-224-$	

	Compiled Revised	March 1988 March 1992	
UDI	ED PR	OJECT	
	Promoting		
	Delayed or S Discontinue	Suspended d or Cancelled	
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rel	ation to	the	
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PROJECT SUMMARY (F/S)

I. OUTLINE OF STUD	Y	H. SUMMARY OF STUDY RESULTS	HI. PRESENT STATUS OF STU
I. COUNTRY Malaysia	9 	1. SITE OR AREA	1. PRSENT Completed or in Progress
2. NAME OF STUDY	<u></u>	Between the eastern and western regions of the country and regions along the western coast	STATUS O Completed
New East-West Railway Project and Coast Railway Project	l the West	2. PROJECT COSTS	O Implementing O Processing
		Total Cost Local Cost Foreign Cost 1) 1,231,000 355,000 2,039,000 (US\$1,000) 2) 4,010,000 876,000 1,971,000	(Description)
3. SECTOR		3)	Although part of double tracking for t
Fransportation/ Railway	, , ,	3. CONTENTS OF MAJOR PROJECT(S) -East-West line construction558km	under way, this project was cancelled implementation of the south-north line
I. REFERENCE NO.	······································	(electrification, double track, standard gauge)	
5. TYPE OF STUDY F/S		-Western line consruction736km	
. COUNTERPART AGENCY		(electrification, double track, standard gauge)	
Malaysian Railway Administration			
OBJECTIVES OF STUDY			
F/S for constructing on east-west connects the eastern coast and t	line that he capital		
Kuala Lumpur and a western line to parallel with a conventional line	hat runs in	Implementation Period: 1986 - 2009	
Western coast	arong che		
DATE OF S/W Feb. 1984		4. FEASIBILITY AND EIRR FIRR	
O. CONSULTANT(S)	*******	ITS ASSUMPTIONS 14.1* 11.5* 13.3* 5.9*	
Japan Railway Technical Service	· · · ·	Feasibility: Yes	
	· · ·	Conditions and Development Impacts:	
		1. Preconditions Transport demand was estimated for the years 1991, 1996, 2001,	
0. STUDY TEAM		and 2005. Passenger traffic was estimated based on data from an interview survey having 2700 samples, while freight traffic	
No. of Members 16		estimates were determined via freight items (9 in all), taking	2. MAJOR REASONS FOR PRESENT STATUS
Period Jun.1984 - Dec.1985	(18 months)	into consideration modal characteristics and development plans.	Internal circumstances of Malays
Total M/M 72.73 Japan 49.59		2. Development effects Expected effects from development are transport time savings,	the world oil market
Field 23.14		reduction in costs, increase in employment opportunities,	
1. ASSOCIATED AND/OR SUBCONTRACTED STUDY		promotion of structural change in industry, inducement of travel, regional development, technological spin-offs,	
SUBCOMMUNICILL STODY		alleviation of public nuisances, etc.	
	-		3. PRINCIPAL SOURCES OF INFORMATION
		5. TECHINCAL TRANSFER	
2. EXPENDITURE		One counterpart received training on F/S methodology.	
Total 241,488	(¥'000)		

Compiled March 1988 Revised March 1992
UDIED PROJECT
Promoting
 Delayed or Suspended Discontinued or Cancelled
the western line is because of the e.
JS sia: Worsening of
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{F/S, (M/P)+F/S, D/D}

I. OUTLIN	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF USE OF STUDY RESUL	
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT In Progress or In Use	
2. NAME OF STUDY		Klang Valley Area (2,842 sq.km) in the central part of Peninsular Malaysia	STATUS Delayed	
Klang Valley Transpor	tation Study	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS Total Cost Local Cost Foreign Cost		
3. SECTOR		(US\$1,000) 1) 316,000 (US\$1,000) 2) 757,000	Based on the proposal of the study, the feasibility study was undertaken in 1989 ("Transport Facilities	
Transportation/ Urbar	Transportation	3. MAJOR PROJECT(S) PROPOSED	Project in Klang Valley"). The progress of some proposed projects are as follows.	
4. REFERENCE NO.		- Introduction of mass transit railway (five lines, 137km) - Construction and improvement of roads	 Shahalam Highway is under construction by the fund of the Malaysian Government. 	
5. TYPE OF STUDY	M/P	- Traffic control plan - Construction of transport terminals	The feasibility study is under way on the commuter railway in Klang Valley.	
6. COUNTERPART AGENCY			3) An OECF loan was approved for the double-tracking of the railway (March 1990, 19,444 million yen).	
Klang Valley Planning Minister's Department				
7. OBJECTIVES OF STUDY				
Formulation of a trar Klang Valley Area	sportation system for			
······································				
	an de Segmente de la companya de la company			
8. DATE OF S/W	Aug.1984	4. CONDITIONS AND DEVELOPMENT IMPACTS		
9.CONSULTANT(S) Fukuyama Consultants Pacific Consultants]	International, Inc. and nternational	The study formulated a transportation master plan for the Klang Valley Area centering in Kuala Lumpur, and proposed a short-term plan for incorporation into the 5th five-year national development plan (1986 - 1990)		
10. STUDY TEAM			2. MAJOR REASONS FOR PRESENT STATUS	
No. of Members 12 Period Nov.1	984 - Mar.1987 (29 months)		A favorable turn of the economic situation called for the	
Total M/M 101 Japan 3	.79 .10		development of transport infrastructure.	
Field 98	. 69			
11. ASSOCIATED AND/OR SUBCONTRACTED STUD	r			
	5. TECHINCAL TRANSFER		3. PRINCIPAL SOURCES OF INFORMATION	
a a second a Second a second a sec		1) Acceptance of 3 counterparts by the JICA training program (on physical planning of urban transportation)		
2. EXPENDITURE		2) OJT and a seminar		
Total Contracted	356,832 (¥'000) 360,840			
和名 クランバレー交通	計画	-226-	{M/P, M/P+(F/S), Basic Study, Other}	

ASE MYS/S 312 /86	PROJECT SUMMARY (F/S)	Compiled March Revised March
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	HI. PRESENT STATUS OF STUDIED PROJEC
1. COUNTRY Malaysia	1. SITE OR AREA	1. PRSENT Completed or Promoting
2. NAME OF STUDY	Ocean Area between Kuantan in Pensinsula Malaysia and Kota Kinabaru, Sabah in East Malaysia	STATUS Completed
Kuantan-Kota Kinabalu Submarine Cable		Delayed or Suspende
Project	2. PROJECT COSTS Total Cost Local Cost Foreign Cost	O Processing Discontinued or Can
	1) 85,000 (US\$1,000) 2)	(Description)
3. SECTOR	3)	
Communications & Broadcasting/ Telecommunication	3. CONTENTS OF MAJOR PROJECT(S)	 The progress of construction of this project was delayed due to the start of Syarikat Telekom Malaysia
4. REFERENCE NO.	Contents: Construction of Optical Fiber Submarine Cable System.	Berhad (STM), and some problem of the contract with British contractor.
4. REFERENCE NO. 5. TYPE OF STUDY F/S	Consists of:	-STM requested the Japanese companies to provide finance for this project in 1988.
	-Kuantan Cable Landing Station Facilities	-STM issued Letter of Intent (L/I) in December 1988.
6. COUNTERPART AGENCY	Terminal Equipment Power Supply Equipment Air conditioning system	-The contract negotiation was carried out from January 1989.
Jabatan Telekom Malysia(JTM)	-Kota Kinabaru Cable Landing Station Facilities -Ditto-	-The supply contract was signed between STM and Japanese companies on 19th June 1989. The contracted price is
7. OBJECTIVES OF STUDY		about 7 billion yen.
Selection of the most suitable cable route,	-Optical Fiber Submersible Plant Cables (1,500km distance) Repeaters	-The Japanese contractor consisted of Mitsui & Co., Ltd NEC and others had completed to lay the submarine cable
and system design		1991. The service-in of this system is scheduled to be 1992.
	Implementation Period:	-The submarine cable linking Kuantan in Peninsular Mala and Singapore is scheduled to be constructed in 1993,
		segment of the APC System.
8. DATE OF S/W Feb. 1986	4. FEASIBILITY AND EIRR FIRR TIS ASSUMPTIONS	-The submarine cable linking Kota Kinabalu in East Malaysia, Brunei and Phlippines is scheduled to be
9. CONSULTANT(S)	Feasibility: Yes	constructed in 1992.
Sanyo Hydrographic Survey Co,. Ltd.		
	Conditions and Development Impacts: Conditions of IRR Celculation :	
10. STUDY TEAM	 In order to construct on optical fiber submarine cable system between Kuantan in the Peninsular Malaysia and Kota Kinabaru, Sabah in the east 	
No. of Members 20	Malaysia, the landing sites survey and ocean survey shall be implemented. 2) The traffic forecast and estimation of truck circuits between east and	2. MAJOR REASONS FOR PRESENT STATUS
Period Jun.1986 - Jan.1987 (7 months)	west Malaysia up to the year 2015 shall be executed. 3) The basic design for submarine cable system based on the survey results	
Total M/M 27	and study results of traffic and trunk circuits shall be made.	
Japan 7	Development Impacts : It is fully expected that traffic conditions in the east Malaysia will be much improved by means of the connection between east and west Malaysia	
Field 20 11. ASSOCIATED AND/OR	through optical fiber submarine cable system, and the political equilibrium will be fostered by means of integration between east and	
SUBCONTRACTED STUDY	west Malaysia.	
	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION
	3. ILSCHINCAL INANOS DA (1) QJT: Participation and/or observation in the shipboard scivition. (6 constrants)	
12. EXPENDITURE Total 284, 940 (¥'000)	(6 counterparts) (2) Lectures & Observations: Optical Fiber Submarine Cable System, Cables, 12 counterparts) Repeators and Tarminal Epuipsant, Observations of Factories	
Contracted 277, 347		
和名 クアンタンーコタキナバル海底ケーブル建設計		{F/S, (M/P)+F/S, D

ASE MYS/S 313 /87		PROJECT SUMMARY (F/S)	and the second	****	Compiled Revised	March 19 March 19
I. OUTLIN	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. P	RESENT STATUS OF	STUDIED PR	OJECT
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT	Completed or	Promoting	3
2. NAME OF STUDY		Penang Municipality	STATUS	in Progress		
Computerised Area Trai Penang	┛ ffic Control System in	2. PROJECT COSTS (US\$1=2.71Rgt.)	a sur	O Implementing O Processing	·	r Suspended ued or Canceli
		Total Cost Local Cost Foreign Cost 1) 106,553	(Description)		
3. SECTOR		(US\$1,000) 2) 19,741 3)		-		
3.SECTOR Transportation/ Urban Transportation		3. CONTENTS OF MAJOR PROJECT(S) - Area traffic signal system	During the first phase, the computer and traffic signa at 16 interchanges were installed at the cost of M\$23 million (of which 0.5 million was provided by the JICA			M\$23
4. REFERENCE NO.		installation of signals (149 locations)	grant).			÷
5. TYPE OF STUDY	F/S	- CCTV cameras (16 locations) Sign boards (7 locations) - Road improvement (25.1km)		cond phase (19 interchang changes) are under prepar		
6. COUNTERPART AGENCY		- Parking buildings (4 locations)				
Economic Planning Unit, and En Municipal Council of Penang Is		- Improvement of bus services (purchase of 140 busses) - Pedestrian paths (10.85km)				
7. OBJECTIVES OF STUDY	T	Note: Cost 2) is only for the traffic signal system.				
traffic control in Pe area traffic control	nang and design of the system	Implementation Period: Jan. 1986 ~ Dec. 2000				
8. DATE OF S/W	Feb.1986	4. FEASIBILITY AND EIRR FIRR TIS ASSUMPTIONS 22 74			· .	
9. CONSULTANT(S)				· .		
Central Consultant, In Consultants Internatio	nc. and Fukuyama	Feasibility: Yes				
constituents internation	unary inc.	Conditions and Development Impacts: - Project life of 15 years				
		- economic analysis on 149 interchanges (to be installed				
10. STUDY TEAM		in 4 phases) and a second s				
No. of Members 8 Period Jul.19	986 - Jan.1988 (19 months)	Development impacts: - alleviation of traffic congestions	2. MAJOR R	EASONS FOR PRESENT ST	ATUS	
Total M/M 43. Japan 2. Field 41.	87 40	 better monitoring over mal-functioning equipment Better response to emergency vehicles Better control over traffic speed and traffic volume Reduction of traffic noise and air pollution 	However, I	ect is financed from the Penang city has a financ ielayed. The first plan	al problem and	the seco
1. ASSOCIATED AND/OR SUBCONTRACTED STUDY						
an a					÷ .	
		5. TECHINCAL TRANSFER	3. PRINCIPA	L SOURCES OF INFORMA	TION	· · · · ·
2. EXPENDITURE	T	Training of the counterparts in Japan (JICA program)				
Total Contracted	164,764 (¥'000) 155,803	Joint undertaking of the study				
和名 ペナン市都市交通	コンピューター制御システム	荃備計画 — 228 —			{F/S, (M/P))+F/S, D/D

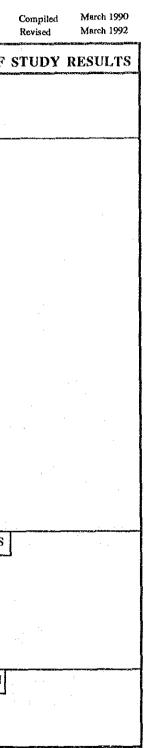
ASE MYS/A 302/87	na na vystych zazenia na stronomiany sy korzek na stad na stronomian	PROJECT SUMMARY (F/S)	and a state of the	ang ng salahan ini sa salahan jara sa	·····	March 199 March 199
I. OUTLINI	e of study	II. SUMMARY OF STUDY RESULTS	III. PI	RESENT STATUS OF	STUDIED PRO.	JECT
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT	Completed or in Progress	Promoting	
2. NAME OF STUDY	د. من من معنی معنی میں بری اور	Coastal area in northwest of Selangoal (Area: 20,000ha, Farm household 19,500)	STATUS	Completed		
Tanjong Karang Irrigat	ion Development			Implementing Processing	Delayed or Sus	•
Management Project		2. PROJECT COSTS Total Cost Local Cost Foreign Cost			Discontinued o	or Cancelle
2 SECTOR	· · · · · · · · · · · · · · · · · · ·	1) 10,384 10,384 (US\$1,000) 2)	(Description))		
3. SECTOR	La construction de la constructi	3)	1.Project	is under implementation	by the Executing i	Agency
Agriculture/ General		3. CONTENTS OF MAJOR PROJECT(S) 1. Irrigation area; 18,980ha	of Malay	sia and about 80% of th d(as of 1990.1).		
4. REFERENCE NO.		2. Rehabilitation/Improvement of the existing irrigation system	2.D/D was	made by DID		
5. TYPE OF STUDY	F/S	 (1) Berunam head race: Heightening of regulation gate, electrical operation of gate, etc. 	3.Tili 199	Construction cost was 0 about M\$44,300,000 wa		pdating
6. COUNTERPART AGENCY	<u> </u>	(2) Main canal: Widening of canal section, construction of water control	of D/D a	nd price hike		
Department of Irrigat	on and Drainage (DID)	facilities, etc. (3) Secondary canal : Construction and heightening works.				
Ministry of Agricultur	e 1	 (4) Distribution Canal: Concrete lining of canal, rehabilitaion of check gates and weir 				
7. OBJECTIVES OF STUDY	1	(5) Farm road: Extension of farm road network (457	1			:
The objectives of the waterrelated problems	study are to identify faced in Thjong Karang	km) 3. Procurement of O/M Apparatus		·		
Irrigater Scheme, and to these problems to a	to recommend solutins	Implementation Period: 1987 - 1990				
rice production						. *
8. DATE OF S/W	Mar.1986	4. FEASIBILITY AND EIRR FIRR	1			
9. CONSULTANT(S)		ITS ASSUMPTIONS				
Nippon Koei, Co., Ltd.	•	Feasibility: Yes				
Kyowa Consultants		Conditions and Development Impacts:				•
		The present low yield of paddy, 6.3 ton/ha a year will he raised to 9.1 ton/ha a year. The present cropping in tensity				
10. STUDY TEAM]	b1.77 will be raised to 2,0. AS a result the annual production of paddy in the project area will increase from 99,600 to			numina l	
No. of Members 11 Period Nav. 19	36 - Jun.1987 (14 months)	167,000 tms.	2. MAJOR RI	EASONS FOR PRESENT S	TATUS	
			none			
Total M/M 80. Japan 32.	08					
Field 47.	57					
SUBCONTRACTED STUDY						
				· · ·		
	. · · · ·	5. TECHINCAL TRANSFER	3. PRINCIPA	L SOURCES OF INFORM	TION	
	······	1. Invite 2 C/P	1)			
12. EXPENDITURE Total	221,818 (¥'000)	2.0JT				
Contracted	142,972		<u> </u>			-
 和名 タンジョンカランi	生產				{ F/S , (M /P)+F/	/S, D/D}
		<u> </u>				
		66J				

PROJECT SUMMARY (M/P + F/S)

I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF USE OF
1. COUNTRY	Malaysia	1. SITE OR AREA	1. PRSENT In Progress or In Use
2. NAME OF STUDY	an yan an an di Afrika ang ang ang ang ang ang ang ang ang an	Klang River basin (1,288 sq.km)	STATUS 🗌 Delayed
Flood Mitigation of the	Klang River Basin	2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS Total Cost Local Cost Foreign Cost	(Description)
3. SECTOR		(US\$1,000) 1) 238,000 (2)	Followed by the feasibility study.
Social Infrastructures/ Control	River & Erosion	3. MAJOR PROJECT(S) PROPOSED	
4. REFERENCE NO.		Flood mitigation plan for 100 year return period. -Channel improvement: 94.7km	
5. TYPE OF STUDY	M/P+(F/S)	-Retention pond: 117.4ha -Divergion channel: 3.3km	
6. COUNTERPART AGENCY		-Drainage pumping station: 2 cu.m/s	
Economic Planning Unit Dept. of Irrigation and	Drainage		
7. OBJECTIVES OF STUDY	<u> </u>		
Flood control			
8. DATE OF S/W	Mar.1987	4. CONDITIONS AND DEVELOPMENT IMPACTS	
9. CONSULTANT(S) Pacific Consultants Inte Nippon Koei Co., Ltd.	ernational, and	See next page	
10. STUDY TEAM			
No. of Members 12			2. MAJOR REASONS FOR PRESENT STATUS
Period Sep.1987	- Jan.1989 (17 months)		
Total M/M 89.56 Japan 43.39 Field 46.17			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY			
topographic survey installation of water meter	rs	5. TECHINCAL TRANSFER	
		1. OJT for the counterparts	3. PRINCIPAL SOURCES OF INFORMATION
2. EXPENDITURE		2. Computer training of water part	0
Total Contracted	272,978 (¥'000) 264,888		

-230-

和名 クラン川流域治水計画



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

I. OUTLINE OF STUDY II. SUMMARY OF STUDY RESULTS III. PRESENT STATUS OF STUDIED PROJECT 1. COUNTRY Palayota 1.SEC OK AREA Integration Integration <th></th> <th>· .</th> <th></th> <th></th> <th></th> <th></th>		· .				
I. COUNTRY Margeta 1. SITE OX AREA I. SITE OX AREA I. Provide a sequence of the second	ASE MYS/S 207B/88		PROJECT SUMMARY (M/P + F/S)	· ·		······
LCOUNTRY Malaysia 1.7000 AREA Implementation (1, 288 sq.km) 1. PRSINT Implementation (1, 288 sq.km) 2. RANKE OF STUDY 1. RECIGN 2. ROULECT COSTS Total Cost 1. 7, 729 60, 312 15, 397 1. SECTOR 1. RECIGN 1. RECIGN (1, 288 sq.km) 1. RESINT 1. SECTOR	I. OUTL	INE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. P	RESENT STATUS OF STI	JDIED PROJECT
2 NAME OF STUDY Kang Valley basin (1, 285 sq.km) If None is a product (1, 285 sq.km) 2 PROJECT COSTS Total Cost Local Cost Competition 1 SECTOR 1 5, 729 49, 332 15, 337 2 SECTOR 1 1 5, 729 49, 332 15, 337 5 SECTOR 1 1 5, 729 49, 332 15, 337 5 SECTOR 1 CONTINCT SO MAIOR PROJECT(S) The hold spectral cost Ib Section and 19 store (house part of the store store) 1 REPERENCE NO. 1 Section channel 1 store (house part of the store) The hold spectral cost of the store store) 1 REPERENCE NO. 1 Section channel 1 store (house part of the store) The hold spectral cost of the store) 1 REPERENCE NO. 1 Section channel 1 store (house part of the store) The hold spectral cost of the store) 1 SCONTEXPUENT ACSENCY (M/P)+#7/S 1 Free cost of the store) The hold spectral cost of the store) 2 CONNECTIVES OF STUDY (M/P)+#7/S 1 Free cost of the store) 15, 71 2 CONNECTIVES OF STUDY (M/P)+#7/S 1 Free cost of the store) 15, 71 2 CONNECTIVES OF STUDY (M/P)+#7/S 15, 71 15, 72 2 CONNELLARST Store)	1. COUNTRY	and a second	I. SITE OR AREA	1 DD CENT		Promoting
2100d Mittigation of the Klang River Basin 2. PROJECT COSIS Total Cost Local Cost Dispace Suppoid 5. SECTOR 10 75,772 60,332 15,337 5. SECTOR 10 3. CONTENTS of MADOR PROJECTS) 15,337 Control 3. CONTENTS of MADOR PROJECTS) 10,412 0,332 15,337 Control 3. CONTENTS of MADOR PROJECTS) 10,412 0,332 15,337 Control 10,412 According Onit 10,412 0,132 10,412 Control 10,412 Person 10,412 10,412 10,412 Scontrol 2. Section Control 10,412 10,412 10,412 Control 10,412 Prophenetic Project of Control 10,412 10,412 10,412 Control 10,412 11,412 11,412 11,412 11,412 11,412 Control 11,412 11,412 11,412 11,412 11,412 11,412 Control 11,412 11,412 11,412 11,412 11,412 11,412 Control 11,412 11,412 11,412 11,412 11,412 11,412 Constitutation of a training end threightmain pagest: Control 11,712 11,712 12,74 <td>2. NAME OF STUDY</td> <td></td> <td>Klang Valley basin (1,288 sq.km)</td> <td>1</td> <td>in Progress</td> <td></td>	2. NAME OF STUDY		Klang Valley basin (1,288 sq.km)	1	in Progress	
2. PROJECT COSTS Total Cost Local Goat Preading Decondanded Concelled 1001, 702, 723 60, 322 15, 337 (Decording of Concelled (Decording of Concelled 33 CONTROL 33 CONTROL 10, 72, 723 60, 322 15, 337 34 CONTROL 10, 72, 723 60, 322 15, 337 The 5/D study was approved to be involved in the 6th mational development (picture) 1, REFERENCE NO. 10 Deconding of Concentration Provided 10, 823 10, 823 10, 823 1, TYPE OF STUDY (M/P)+F/5 31 Preping station name 10, 823 10, 823 10, 823 CONTRELATION ONLY (M/P)+F/5 31 Preping station and underground retarsing reservoir 10, 823 10, 823 10, 823 CONSULTANT(S) Data (M/P) + 10, 823 10, 823 10, 823 10, 823 10, 823 10, 823 Proof control Implementation Period: 193 - 1993 15, 74 15, 74 15, 74 Proof Control Implementation Period: 10, 74 15, 74 15, 74 Proof information and transportion of anoid the sector of the year 2005 10, 75, 74 15, 74 Read Sector 1, 104 11, 82, 74 10, 75, 74 10, 75, 74 Read <t< td=""><td></td><td>the Klang River Basin</td><td></td><td>onnios</td><td>O Implementing</td><td>Delayed or Suspended</td></t<>		the Klang River Basin		onnios	O Implementing	Delayed or Suspended
ABCTOR 11 75,729 60,332 15,397 Bocial Infrastructures/ River & Ecosion Ontrol 10 175,729 60,332 15,397 Bocial Infrastructures/ River & Ecosion Ontrol 3. CONTENTS OF MADOR PROJECT(S) The D/D study was approved to be involved in the 6th estational development plan 11091-1395) and request to occr is development projected for the year 2105 is development if development inpact: conditions: is development if development inpact: is development if development	1.000 112029				O Processing	Discontinued or Cancelled
SECTOR User, Nov 3 SECIAL Infrastructures/ River & Erosion S.CONTENTS OF MAIOR PROJECT(S) I.REFERENCES NO. I.REFERENCES NO. S.REFERENCES NO. I.REFERENCES NO. S.REFERENCES NO. I.REFERENCES NO. S.CONTERPART ACENCY I.STUDY Pelood control Implementation Period: 1933 - 1997 I.DATE OF S/W May, 1057 4.FEASIBE.TY AND EIRR TS ASSUMPTIONS IS.74 FORMINIC Conditions: Conditions and Development Impact: Conditions: Conditions: Conditions: OBPOCULIS FOR YOURY I.STREON A				Description	l	
Social infrastructures/ Outsol River & Erosion 3.CONTENTS OF MADOR PROFECTES) in River channel infrorment (sidering, excavation and markeent) The B/D study was approved to be involved in the Sth and ADOR PROFECTES) in Reference of the ADOR PROFECTES Stripping of STUDY (M/P)+F/S 3.Popping of the ADOR PROFECTES) in Reference of the ADOR PROFECTES The B/D study was approved to be involved in the Sth and ADOR PROFECTES) Stripping of STUDY (M/P)+F/S 3.Popping of the ADOR PROFECTES) The B/D study was approved to be involved in the Sth and ADOR PROFECTES) Stripping of STUDY (M/P)+F/S 3.Popping of the ADOR PROFECTES) The B/D study was approved to be involved in the Sth and State of ADOR PROFECTES) LDATE OF S/W (M/P)+F/S 3.Popping of the ADOR PROFECTES The ADOR PROFECTES LDATE OF S/W Mar.1967 4.FASIBILITY AND State of ADOR PROFECTES FIRR 1.5.74 LDATE OF S/W Mar.1967 4.FASIBILITY AND 2.Popping of Co., Ltd. Feasibility: Yee Conditions additions Conditions and Development Input: Constitutions 1.9 The Lind we pattern projected for the year 2005 2.Popctulity coat of 134 3.Popping the State of 2.Popping the	3. SECTOR			(Description	y	
Scontrol 3. CONTRING OF WOUCK (NOUNC) Instantal development plan (1991-1995) and request to GCC I. REPERENCE NO. 1 Preportment (Visce channel inprovement (Visce channel inprovechannel inprovement (Visce channel inproveme		res/ River & Erosion				
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$1021 - 212, 918 (\neq 000)$	12. EXPENDITURE			· (1)		

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和名 クラン川流域治水計画

{F/S, (M/r)+۶۱۵, עוען {F/S, (M/P)+F/S, D/D}

I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT			
	1. SITE OR AREA				
1. COUNTRY Malaysia	International beach resort area in Desal Area in	the 1. PRSENT in Progress			
2. NAME OF STUDY	southeastern part of Malay Peninsula	STATUS O Completed			
National Tourism Development Plan	2. PROJECT COSTS	Implementing Delayed or Suspended Processing Discontinued or Cancelled			
	Total Cost Local Cost Foreign (Cost			
	1) 314,700 214,000 100 (US\$1,000) 2)	, ⁰⁰⁰ (Description)			
3. SECTOR	3)	The national and state governments and the private			
Tourism/ General	3. CONTENTS OF MAJOR PROJECT(S)	sector have different ideas of development, and are in			
4. REFERENCE NO.	Construction of the Desal new tourism core: - Development of roads, water supply and sewerage facilitie	the process of mutual adjustment. A number of private enterprises in Japan and Singapore			
5. TYPE OF STUDY F/s	telecommunication, etc. - Medium- to high-class resort hotels (1800 rooms)	are interested in investing in the area, and some is conducting studies.			
6. COUNTERPART AGENCY	- Sports and recreational facilities	70 % of the investment costs are assumed to come form			
		the private sector. Therefore, it will be important for the Malaysian Government to make institutional			
Ministry of Culture and Tourism Tourism Promotion Corporation		preparations for processing investments. It will be also important for Japan and Singapore to simplify			
OBJECTIVES OF STUDY		customs and immigration procedures.			
Formulation of a medium-term touri development plan	ism				
	Implementation Period: 1989 - 1995				
A DATE OF S/W Nov. 1986	4. FEASIBILITY AND EIRR FIRR				
B. DATE OF S/W Nov. 1986 D. CONSULTANT(S)	ITS ASSUMPTIONS 18.8% 16.10%				
Pacific Consultants International	Feasibility: Yes 20.70%				
	Conditions and Development Impacts:	· ·			
	Total construction costs exclude the costs to be borne l the local inhabitants according to the users-pay principle				
10. STUDY TEAM	The calculation of benefits is derived from the tourist				
No. of Members 20	expenditures and the revenue structure of the hotels in 1987/1988, and tourists projections are derived from the	2. MAJOR REASONS FOR PRESENT STATUS			
Period Mar.1987 - Feb.1989	(24 months) present structure of destinations after adjusting by the in	mpact - The land area planned for tourism development is			
Total M/M 93	of the proposed Desal new tourism core. Development impacts:	government-owned.			
Japan 38 Field 55	1) Stimulation of the development in low-income areas 2) Creation of employment	- The existing infrastructure is managed by KEJORA, a statutory body.			
1. ASSOCIATED AND/OR	 3) Encouragement of population movement from the urban are the region. 	as to - Hotels and transportation will be operated by the private sector.			
SUBCONTRACTED STUDY	the region. 4) Foreign exchange earnings				
Marine resource survey	Note: FIRR 1) is for hotels, FIRR 2) for developers and FI	RR 3)			
	5. TECHINCAL TRANSFER	3. PRINCIPAL SOURCES OF INFORMATION			
	On-the-job training	1			
2. EXPENDITURE Total 295, 306					
Contracted 283, 884					
和名地域総合開発計画		{F/S, (M/P)+F/S, D/D}			
	-232-				
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