

# PROJECT SUMMARY (M/P+F/S)

ASO CHN/S 202B/90

 Compiled Mar.1992  
Revised

I. OUTLINE OF STUDY			II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																	
1. COUNTRY	China		1. SITE OR AREA		Inner City in Xian City (Final Disposal Site) Outer City in Xian City (Intermediate Treatment Site)		1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled																
2. NAME OF STUDY	Municipal Solid Waste Treatment Plan in Xian City		2. PROJECT COST		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total Cost</td> <td style="text-align: center;">4,233</td> <td style="text-align: right;">Local Cost</td> <td style="text-align: center;">4,233</td> <td style="text-align: right;">Foreign Cost</td> <td></td> </tr> <tr> <td style="text-align: right;">(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: right;">2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">1\$US=5 yuan</td> <td></td> <td style="text-align: center;">3)</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	4,233	Local Cost	4,233	Foreign Cost		(US\$1,000)	1)	2)				1\$US=5 yuan		3)	
Total Cost	4,233	Local Cost	4,233	Foreign Cost																				
(US\$1,000)	1)	2)																						
1\$US=5 yuan		3)																						
3. SECTOR	Public Utilities/Urban Sanitation		3. CONTENTS OF MAJOR PROJECT(S)		(Description)  (FY 1991 Overseas Survey) A detailed design financed by domestic fund has been conducted since 1991. The project is assigned high priority in the city's eighth Five Year Plan (1991-95), and the city hopes for further cooperation of JICA in continuing the study on the construction of the transfer station.																			
4. REFERENCE NO.		The First Phase Project of which the target year is 1995 should be as follows:																						
5. TYPE OF STUDY	(M/P)+F/S		1) Construction of controlled type of final disposal facility.																					
6. COUNTERPART AGENCY	Joint Venture of Study for Municipal Solid Waste Treatment Plan in Xian City		Location : Chian-Sun District Landfill method : Semi-Anaerobic Metabolism in Landfill Major facilities : Reservoir type deposit Water insulation Underground Water Discharge Rainwater Discharge Access road																					
7. OBJECTIVES OF STUDY	Feasibility Study		2) Construction of transfer station.																					
8. DATE OF S/W	Sep.1988		Imp. Period: .1991-.1995																					
9. CONSULTANT(S)	Nihon Koei Co., Ltd. Japan Engineering Consultants Co., Ltd.		4. FEASIBILITY AND ITS ASSUMPTIONS																					
10. STUDY TEAM	No. of Members 13 Period Jan.1989-Jun.1990 (16 months)  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">70.11</td> <td style="text-align: center;">38.56</td> <td style="text-align: center;">31.55</td> </tr> </table>		Total M/M	Japan			Field	70.11	38.56	31.55	Feasibility: Yes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">EIRR1</td> <td style="text-align: center;">25.20</td> <td style="text-align: right;">FIRR1</td> </tr> <tr> <td style="text-align: right;">EIRR2</td> <td></td> <td style="text-align: right;">FIRR2</td> </tr> <tr> <td style="text-align: right;">EIRR3</td> <td></td> <td style="text-align: right;">FIRR3</td> </tr> </table>		EIRR1	25.20	FIRR1	EIRR2		FIRR2	EIRR3		FIRR3			
Total M/M	Japan	Field																						
70.11	38.56	31.55																						
EIRR1	25.20	FIRR1																						
EIRR2		FIRR2																						
EIRR3		FIRR3																						
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY			Conditions and Development Impacts: Unit cost of treatment, in case of short-term priority plan is implemented, is as follows.																					
12. EXPENDITURE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">261,310 (Y'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">68,205</td> </tr> </table>		Total	261,310 (Y'000)	Contracted	68,205	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Operation and Maintenance</td> <td style="text-align: right;">11.8 Yuan/ton</td> </tr> <tr> <td style="text-align: right;">Total cost</td> <td style="text-align: right;">35.7 Yuan/ton</td> </tr> </table> The present waste collection charge is 10 Yuan/ton. For implementation, the subsidy from city budget to the environment management agency is needed. If the charge to the beneficiaries is increased twice and three times, the subsidy amount will be 83% and 66%.		Operation and Maintenance	11.8 Yuan/ton	Total cost	35.7 Yuan/ton												
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Contracted	68,205																							
Operation and Maintenance	11.8 Yuan/ton																							
Total cost	35.7 Yuan/ton																							
			Charge (Yuan/ton)              Amount of Subsidy ('000/Yuan) 10                                      82,337 20                                      68,402																					
			Development Impacts: 1) The project would bring about more efficient waste collection and haulage system. 2) The project would make an improvement of environmental preservation.																					
			5. TECHNICAL TRANSFER																					
			From the view point of the effective transfer of knowledge, all field investigation works were carried out in cooperation with counterpart engineer.																					
			3. PRINCIPAL SOURCE OF INFORMATION																					
			①②																					

和名 西安市生活废弃物处理計画

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

# PROJECT SUMMARY (F/S)

ASO CHN/S 313/90

Compiled Mar.1992  
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	China	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Rapid Railway Construction Project in Tianjin	Tianjin City Area: 11312km    Population: 8.15 Million (1986)					
3.SECTOR	Transportation/Railway	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description) At present, it seems that technical sectors are considering the materialization of the project. However, details are unknown.  (FY 1991 Overseas Survey) To date neither a detailed study nor official request for financial cooperation has been made.  Information from Tianjin, as of February 1993: At the time when the JICA report on the F/S was submitted, it was impossible to implement this project due to the financial difficulty. However, the Tianjin City Government has decided to incorporate the project into a projection on a commercial basis. In this regard, in order to promote the construction, the City Government is planning to dispatch a study team to Japan to conduct observation and discussions concerning the present situation of high-speed aided transport systems in Japan and related technical problems mentioned in the report.  (FY 1992 Overseas Survey) Waiting for the answer.
4.REFERENCE NO.				396,958	281,875	115,083	
5.TYPE OF STUDY	F/S						
6.COUNTERPART AGENCY	Tianjin Science and Technology Commission						
7.OBJECTIVES OF STUDY	F/S for a new railway line construction between Tianjin and Tanggu, about 50km	3.CONTENTES OF MAJOR PROJECT(S)					
8.DATE OF S/W	Sep.1988	Imp. Period: .1991-.1999					
9.CONSULTANT(S)	Japan Railway Technical Service Yachiyo Engineering Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) 7.21 EIRR2) EIRR3)	FIRR1) 2.42 FIRR2) FIRR3)	
10.STUDY TEAM	No.of Members 14 Period Feb.1989-Jun.1990 (17 months)	Conditions and Development Impacts: Preconditions: 1. Inflation : Not considered 2. Exchange rate: 1yuan = 36 yen 3. Residual value: Earmarked for the last year of the project and residual value. 4. Period of analysis: Up to 2020 (30 years from the start of construction). 5. Transport demand: Estimated for 1996, 2000, and 2015. Fare is assumed to be 0.05 yuan per km. Development Impacts: 1) greatly increase the passenger transport capacity between Tianjin and Tanggu and reinforce the basic railway network in Tianjin. 2) promote comprehensive urban construction projects in Tianjin City, especially, the economic and technical zone development projects, etc. 3) promote harmonized development of areas along the Hai He river as well as the sound development of all of Tianjin.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Local students were used in a supplemental survey for collecting traffic data. (Costs borne by the Chinese side.)	5. TECHNICAL TRANSFER					
12.EXPENDITURE	Total 189,751 (¥'000) Contracted 17,900	1) Technical transfer, via on-site work, concerning demand forecasting, construction standards, train operation planning, electrification, signal and telecommunication facilities and rolling stock. 2) Training one counterpart in demand forecasting (Jan. and Feb., 1990).				3.PRINCIPAL SOURCE OF INFORMATION ①②	

和名 天津市津塘快速鉄道新線建設計画

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

# PROJECT SUMMARY (F/S)

ASO CHN/A 305/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	China	1.SITE OR AREA		Beijin city, Pinggu Prefecture		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing						
2.NAME OF STUDY	Agricultural Water-use Development Project on Haizi Dam Area in Beijin City	2.PROJECT COST		Total Cost	Local Cost			Foreign Cost					
3.SECTOR	Agriculture/General			(US\$1,000)	37,566	21,856	15,710						
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)		(Description) This project consists of two parts: (1) technology transfer for water saving irrigation by the project-type technical cooperation (2) introduction of the water management equipment through Japan's Grant Aid Assistance. The Government of China had already requested the first one to the Government of Japan in 1991, and the Government of Japan agreed. Consequently, the Government of Japan had executed the long-term investigation from August 24, 1992 to September 17,1992. And the Mission for discussion on the execution has been dispatched from February 22, 1993 to March 4. For the second one, the Government of China intends to request after finishing the on-going agricultural development project by the Japan's Grant Aid Assistance. (FY 1992 Overseas Survey) Rehabilitation and construction of the North Main Canal were completed by the local funds in Dec.,1991. The Government of China invested 6.16 million yuan as construction cost to carry out the following projects: 1) Gate for the main canal (2 places), 2) Branch pipeline canal (30km), 3) Reservoir (15 places), 4) Irrigation areas (10,000 mu) In order to introduce the Water Saving Irrigation, the Chinese side hopes to finance the water management system by the Japan's Grant Aid. Especially, the local government has a strong wish to implement this project in this way.									
5.TYPE OF STUDY	F/S												
6.COUNTERPART AGENCY	Ministry of Water Resources												
7.OBJECTIVES OF STUDY	To judge the feasibility of this Water Saving Irrigation Project by introducing the modern water management system												
8.DATE OF S/W	Nov.1988	Imp. Period: 1991-1995											
9.CONSULTANT(S)	Japan Engineering Consultants Co., Ltd. Sanyu Consultants Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes EIRR1) 38.78    FIRR1) 30.86 EIRR2)            FIRR2) EIRR3)            FIRR3)										
10.STUDY TEAM	No.of Members 9 Period Dec.1989-Mar.1991(15 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">58.64</td> <td style="text-align: center;">25.70</td> <td style="text-align: center;">32.94</td> </tr> </table>	Total M/M	Japan					Field	58.64	25.70	32.94	Conditions and Development Impacts: Development Impacts: 1. Promotion of the development of correlated industry 2. Promotion of the development of livestock industry 3. Saving time and cost of distribution for agricultural products 4. Improvement of the living standard 5. The income of a medium size farmer will be increased from 1,500 yuan to 4,500 yuan.	
Total M/M	Japan	Field											
58.64	25.70	32.94											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER											
12.EXPENDITURE		The technical transfer has been made as follows to the counterparts. - how to collect and analyze the data - how to measure the soil moisture - how to arrange the survey results as F/S Report											
	Total 187,087 (¥'000) Contracted 172,000			2.MAJOR REASONS FOR PRESENT STATUS		For the second one mentioned above, this is the plan of the Ministry of Foreign Economic Relation and Trade.							
				3.PRINCIPAL SOURCE OF INFORMATION				①②③					

和名 北京市海子ダム農業水利開発計画

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

# PROJECT SUMMARY (F/S)

ASO CHN/S 314/91

Compiled Mar.1993  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT			
1.COUNTRY	China	1.SITE OR AREA	Whole area of Dehui County in Jilin Province (Population 820,000; Area 3,435 sq.km)			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled		
2.NAME OF STUDY		2.PROJECT COST							
Telephone Network Automatization Plan in Dehui County, Jilin Province				Total Cost	Local Cost	Foreign Cost			
		(US\$1,000)		17,500	11,908	5,592			
				1)					
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)				(Description) On July 1991, the Committee constructed by "The Association for the Promotion of International Trade, Japan" visited in China, vice-president of Ministry of Posts and Telecommunication of China and requested promotion of this project. Chinese Government has not yet requested the implementation of this project to Japanese Government.  (FY1992 Overseas Survey) A request has been made to the Ministry of Foreign Economic Relations and Trade for the utilization of Japanese Grant Aid and presently in progress toward ratification.			
Communications & Broadcasting/Telecommunication		This telephone automatization and expansion plan designates 1995 as the targets. In Dehui county, the telephone sets for the areas, where 24 local government offices are located, are installed so as to cope with the demands until 1995. For about 300 villages, 5 telephone sets are installed for office in every 5 hamlets. The total number of telephone sets will be about 8,100. The necessary facilities for implementation of this project are following.							
4.REFERENCE NO.		1. Exchange            1 Toll/ Local switch Unit    4,700 L.U. 11 remote switch Unit       3,160 L.U. 2. Transmission      11 sections 33 systems       4,800 pair-km 3. Subscriber cable 55,500 pair-km 4. Others Building, Power 12 locations							
5.TYPE OF STUDY		This implementation plan will be divided into two(2) terms. In first term, subscriber cables for the areas where local government offices are located, buildings, power, exchanges and transmission facilities will be expanded. In second term, subscriber cables for official institutions and hamlets will be installed. Implementation period below is 3 years.							
6.COUNTERPART AGENCY									
Posts and Telecommunications Administration of Jilin Province									
7.OBJECTIVES OF STUDY									
To formulate a telephone network automatization plan in Dehui County, Jilin Province. Through the study, in addition, some technology will be transferred to the Chinese counterparts.									
8.DATE OF S/W		Imp. Period:							
Mar.1990		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 8.85 EIRR2) EIRR3)			FIRR1) 2.64 FIRR2) FIRR3)	
9.CONSULTANT(S)		Conditions and Development Impacts:				2.MAJOR REASONS FOR PRESENT STATUS			
NTT International Corporation		Assumptions: - Telephone automatization plan is to be completed in 1994 for local telephones and in 1995 for rural telephones. - The incremental revenues and costs, which are calculated by multiplying the number of pay subscribers with the corresponding charges, between before and after automatization are taken into account. - Project life is 20 years.  Development Impacts: - To increase agricultural production by improving the function of conveying information. - The acquisition of market and commercial information will lead to increase profits and create job opportunities in the district. - To provide a means of communication in case of emergency, which will minimize damage to be brought about by accidents, disasters, sudden illness, etc.							
10.STUDY TEAM						Chinese Government hold a lot of projects, therefore implementation of this project has been delayed.			
No.of Members    8									
Period Jul.1990-Sep.1991(13 months)									
Total M/M		Japan		Field					
57.96		23.28		34.68					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION			
		- Method of survey and data analysis - Formulation of automatization plans - 2 counterparts took a training in Japan				①②			
12.EXPENDITURE									
Total		168,499 (¥'000)							
Contracted		110,175							

和名 吉林省德惠県電話網自動化計画

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

## PROJECT SUMMARY (F/S)

ASO CHN/A 306/91

Compiled Mar.1993

Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																								
1.COUNTRY	China	1.SITE OR AREA		Qinzhou Region, Guangxi Zhuang Autonomous Region Area: 34,363 ha, Population: 135(thousand) (1990)		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing																							
2.NAME OF STUDY	Improvement of Agricultural Land Reclamation Dike and Agriculture Development Project, Qinzhou Region, Guangxi Zhuang Autonomous Region	2.PROJECT COST (US\$1,000)		Total Cost 240,742	Local Cost 178,894			Foreign Cost 61,847																						
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)				(Description) The project implementation requires approval from the Provincial Planning Committee. An application was filed in Jan. 1992. The Guangxi Water and Power Department applied to register the project to the National 8th Five Year Plan. At the same time, the environmental studies were being carried out. In consideration of the peculiarities of the project, the cost for the D/D would be requested to the JICA. Local costs for the implementation would be provided by the local funds, and foreign costs by the OECF loan. In June 1992, the sea dike in Baigumei suffered damage from the 4th typhoon. On the other hand, Beibai city, adjoining Baigumei, which is selected as a special economic development zone, is recognized as an important trading point in the south-western part of China due to its role for national border trade with Vietnam and domestic trade within adjoining provinces. Therefore, the Guangxi Regional Planning Committee emphasizes on the expansion of the Beihai harbor, development of railways and roads, and the construction of a new harbor at the entrance of the Qinzhou bay in the National 8th Five Year Plan. However, the Guangxi Regional Planning Committee also recognized importance of this agricultural development project. The committee will register this project to the National 9th Five Year Plan (1996/2000), once the environmental study is finished. (FY1992 Overseas Survey) Waiting for the answer.																								
4.REFERENCE NO.																														
5.TYPE OF STUDY	F/S																													
6.COUNTERPART AGENCY	China Guangxi Water and Power Department																													
7.OBJECTIVES OF STUDY	Feasibility Study of the improvement of Agricultural Land Reclamation Dike and Agriculture Development in two selected typical regions.																													
8.DATE OF S/W	Feb.1990	Imp. Period: Jan.1991-Dec.2012																												
9.CONSULTANT(S)	Taiyo Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 11.20 EIRR2) 10.20 EIRR3)	FIRR1) 9.20 FIRR2) 8.30 FIRR3)																									
10.STUDY TEAM		Conditions and Development Impacts: Conditions: The project sites are in Baiquwei and Kanqxilingwei along the Qinzhou bay. The project is to reclaim dikes to protect cultivated land (reclaimed water areas) from billows by typhoons and flood waters from back marshes and to promote agricultural development. Period for construction: 12 years. Period for settlement : 2 years. Start farming in 15 years Development Impacts: Flood control, Settlement to new land, Increase agricultural, fisheries and animal products, Improve rural living conditions. The economic and financial evaluation is as follows:																												
No.of Members 11 Period Aug.1990-Sep.1991(13 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">52.50</td> <td style="text-align: center;">32.93</td> <td style="text-align: center;">19.57</td> </tr> </table>		Total M/M	Japan	Field	52.50			32.93	19.57	<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">Baiquwei</td> <td style="text-align: center;">Kanqxilingwei</td> </tr> <tr> <td style="text-align: center;">IRR</td> <td style="text-align: center;">11.2%</td> <td style="text-align: center;">9.2%</td> </tr> <tr> <td style="text-align: center;">E/C ratio (discount ratio 8%)</td> <td style="text-align: center;">1.46</td> <td style="text-align: center;">1.15</td> </tr> <tr> <td></td> <td style="text-align: center;">10.2%</td> <td style="text-align: center;">8.3%</td> </tr> <tr> <td></td> <td style="text-align: center;">1.29</td> <td style="text-align: center;">1.04</td> </tr> </table>			Baiquwei	Kanqxilingwei	IRR	11.2%	9.2%	E/C ratio (discount ratio 8%)	1.46	1.15		10.2%	8.3%		1.29	1.04				
Total M/M	Japan	Field																												
52.50	32.93	19.57																												
	Baiquwei	Kanqxilingwei																												
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E/C ratio (discount ratio 8%)	1.46	1.15																												
	10.2%	8.3%																												
	1.29	1.04																												
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER		Technical Transfer of Design Criteria on Reclamation Dike was done.																										
12.EXPENDITURE				3.PRINCIPAL SOURCE OF INFORMATION																										
Total 245,618 (¥'000) Contracted 170,591				①②																										

和名 广西壮族自治区钦州地区農業海河堤整備及び農業開発計画

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

# PROJECT SUMMARY (F/S)

ASO IND/S 301/87

Compiled Mar.1990

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																	
<b>1.COUNTRY</b>	India	<b>1.SITE OR AREA</b>		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> <td style="width: 15%;"></td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1) 1,677,000</td> <td style="text-align: center;">1,440,000</td> <td style="text-align: center;">237,000</td> <td></td> </tr> <tr> <td style="text-align: center;">(US\$1=12.87Rp)</td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td></td> <td></td> <td></td> </tr> </table>			Total Cost	Local Cost	Foreign Cost		(US\$1,000)	1) 1,677,000	1,440,000	237,000		(US\$1=12.87Rp)	2)					3)				<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"><b>1.PRESENT STATUS</b></td> <td style="width: 15%;"><input type="checkbox"/> Completed or in Progress</td> <td style="width: 15%;"><input checked="" type="checkbox"/> Promoting</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Completed</td> <td><input type="checkbox"/> Delayed or Suspended</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Implementing</td> <td><input type="checkbox"/> Discontinued or Cancelled</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Processing</td> <td></td> </tr> </table>		<b>1.PRESENT STATUS</b>	<input type="checkbox"/> Completed or in Progress	<input checked="" type="checkbox"/> Promoting		<input type="checkbox"/> Completed	<input type="checkbox"/> Delayed or Suspended		<input type="checkbox"/> Implementing	<input type="checkbox"/> Discontinued or Cancelled		<input type="checkbox"/> Processing	
	Total Cost	Local Cost	Foreign Cost																																				
(US\$1,000)	1) 1,677,000	1,440,000	237,000																																				
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	<input type="checkbox"/> Implementing	<input type="checkbox"/> Discontinued or Cancelled																																					
	<input type="checkbox"/> Processing																																						
<b>2.NAME OF STUDY</b>		Between Delhi and Kampur, northwestern India		<p><b>(Description)</b></p> <p>The study recommended that the conventional line improvement be carried out including the section between Kampur and Calcutta, and that the construction of a high-speed line, which is in the pre-F/S stage, be studied in phases. Based on the recommendations, the Ministry of Railway requested a JICA feasibility study on the improvement around the New Delhi Station ("Development Plan for the New Delhi Station," completed in 1990). The Indian Railway Board is studying the improvement of Kampur - Calcutta Section, utilizing the method employed by this study.</p> <p>Conventional line improvement is partially under way.</p> <p>(FY1991 Overseas Survey)</p> <p>Indian Railway Board hopes to implement the project, but has no definite schedule.</p>																																			
Railway Improvement Plan of Transport Capacity and Train Speed on the Delhi-Kampur Section		<b>2.PROJECT COST</b>																																					
<b>3.SECTOR</b>		<b>3.CONTENTS OF MAJOR PROJECT(S)</b>		<p>1. Conventional line improvement by 1991: max. speed 160km/h, Ghaziabad-Kampur</p> <p>1. Track &amp; structures: 1) Imprv. of transition curves; 2) Imprv. of 333 turnouts on main tracks; 3) Construction of passing tracks that do not border on platforms (Aligarh &amp; Etawah stations); 4) Construction of one platform and two departure-arrival tracks, in Kanpur station; 5) Imprv. of 187 turnouts and track layout (Ghaziabad, Tundla &amp; Juhi marshalling yards); 6) Remodeling of No. 304 bridge and Hathras overbridge</p> <p>2. Rolling stock: Imprv. of high-speed running performance and brake performance of electric locomotives, passenger cars, and freight cars</p> <p>3. Signals and telecommunications: Signal automation, electronic interlocking, automatic control of levelcrossing facilities, and introduction of ATS (automatic train stop) and CTC (centralized train control) systems</p> <p>4. Electrification: Partial modification of the contact-wire structure</p> <p>II. High-speed railway construction by 2000: max. speed 250km/h, Delhi-Agra-Kampur</p> <p>1. Terminals: New Delhi, New Agra, and New Kanpur</p> <p>2. Track and structures: Embankment section 412km; viaduct section 17km; sections jointly used by the conventional railway 21km.</p> <p>3. Rolling Stock: A super express train of 6 motored cars and 10 trailers</p> <p>4. Signals and telecommunications: Automatic train control(ATC) system, electronic interlocking system, centralized train control(CTC) system, AF non-insulated track circuit, Optical cable, train radio, telephone equipment, etc.</p> <p>5. Electrification: 1) AT feeding system, 6 new substations; 2) contact wire system</p>																																			
<b>4.REFERENCE NO.</b>		<b>4.FEASIBILITY AND ITS ASSUMPTIONS</b>				<p><b>Conditions and Development Impacts:</b></p> <p>Preconditions for calculating IRRs: Transport demand was estimated for the years 1995, 2000, 2005, 2010, and 2015 for the two cases of conventional line improvement and new high-speed line construction. Economic and financial evaluation was carried out for the cases of conventional line improvement, new high-speed line construction, and a combination of both.</p> <p>Development impacts: 1) Increase in transport capacity 2) Reduction in travel time 3) Alleviation of public nuisances due to road transport and a reduction in accidents 4) Development of cities along the railway route 5) Development of related industries</p>																																	
<b>5.TYPE OF STUDY</b>		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Feasibility:</td> <td style="width: 15%; text-align: center;">EIRR1)</td> <td style="width: 15%; text-align: center;">42.62</td> <td style="width: 15%; text-align: center;">FIRR1)</td> <td style="width: 15%; text-align: center;">25.79</td> </tr> <tr> <td style="text-align: center;">F/S</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">EIRR2)</td> <td style="text-align: center;">36.08</td> <td style="text-align: center;">FIRR2)</td> <td style="text-align: center;">18.00</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">EIRR3)</td> <td></td> <td style="text-align: center;">FIRR3)</td> <td></td> </tr> </table>			Feasibility:			EIRR1)	42.62	FIRR1)	25.79	F/S	Yes	EIRR2)	36.08	FIRR2)	18.00			EIRR3)		FIRR3)																	
	Feasibility:	EIRR1)	42.62	FIRR1)	25.79																																		
F/S	Yes	EIRR2)	36.08	FIRR2)	18.00																																		
		EIRR3)		FIRR3)																																			
<b>6.COUNTERPART AGENCY</b>		<b>5.TECHNICAL TRANSFER</b>		<p><b>2.MAJOR REASONS FOR PRESENT STATUS</b></p> <p>It is effective to implement the improvement of the object sections jointly with the work for the adjacent sections. Therefore the Indian Railway is studying this issue.</p>																																			
Indian Railway Board		<p>1) OJT: Movies on Shinkansen and conventional line improvement.</p> <p>2) Utilization of a local consultant as an assistant in traffic data collection.</p>																																					
<b>7.OBJECTIVES OF STUDY</b>		<b>6.IMP. PERIOD</b>		<p><b>3.PRINCIPAL SOURCE OF INFORMATION</b></p> <p>①②</p>																																			
F/S for facility planning for transport capacity strengthening and train speed increases on a conventional trunk line, and a basic study on constructing a new high-speed line		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">.1989-.1990</td> <td style="width: 15%; text-align: center;">.1990-.1995</td> </tr> </table>					.1989-.1990	.1990-.1995																															
	.1989-.1990	.1990-.1995																																					
<b>8.DATE OF S/W</b>		<b>10.STUDY TEAM</b>		<p><b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b></p> <p>traffic data collection.</p>																																			
Oct.1986		<p>No.of Members 17</p> <p>Period Feb.1987-Jan.1988(12 months)</p> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Japan</td> <td style="width: 15%; text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">93.41</td> <td style="text-align: center;">55.66 37.75</td> </tr> </table>					Japan	Field	Total M/M	93.41	55.66 37.75																												
	Japan	Field																																					
Total M/M	93.41	55.66 37.75																																					
<b>9.CONSULTANT(S)</b>		<b>12.EXPENDITURE</b>		<p><b>12.EXPENDITURE</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">267,615 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">267,615 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">257,220</td> </tr> </table>			267,615 (¥'000)	Total	267,615 (¥'000)	Contracted	257,220																												
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Japan Railway Technical Service Tonichi Engineering Consultants, Inc. Yachiyo Engineering Co., Ltd. The Japan Electrical Consulting Co., Ltd.																																							

和名 デリー～カンプール間幹線鉄道改良計画

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

# PROJECT SUMMARY (F/S)

ASO IND/S 302/87

Compiled Mar.1990

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT					
1.COUNTRY	India	1.SITE OR AREA		Jamalpur Workshop (Eastern Railway), Perambur Workshop (Southern Railway)		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input checked="" type="checkbox"/> Processing				
2.NAME OF STUDY	Modernization of Rolling Stock Workshop	2.PROJECT COST		Total Cost	Local Cost			Foreign Cost			
3.SECTOR	Transportation/Railway			(US\$1,000)	87,000	64,100	22,900				
4.REFERENCE NO.				1)							
5.TYPE OF STUDY	F/S			2)							
6.COUNTERPART AGENCY	Indian Railway Board			3)							
7.OBJECTIVES OF STUDY	F/S for modernization of two conventional workshops for rolling stock as part of the modernization of the Indian Railways	3.CONTENTS OF MAJOR PROJECT(S)		1. Workshop modernization 1) Shortening of period of POH (periodical overhaul) of rolling stock, and strengthening of inspection/repair capacities; 2) Improvement of operation efficiency of rolling stock, and reduction of POH costs; 3) Introduction of new technology for rolling stock inspection and repair; 4) Development of skills of personnel by training and education; 5) Introduction of testing equipment for improving quality and reliability of rolling stock 2. Plan of strengthening inspection/ repair capacities, and scale of investment. 1) Jamalpur Workshop: Project cost, 481 million Rs. Building construction --- Engine test room, car maintenance room, training center Building reconstruction --- Steam-locomotive part shop, casting shop Machine installation --- Testing equipment for engine and generator; commutator grooving equipment; bogie washer; brake-shoe casting equipment; others Machine replacement --- Wheel lathe, etc. Others --- Maintenance of passage, floor surface, track, etc. 2) Perambur Workshop: Project cost, 639 million Rs. Building construction --- Passenger-car body shop, freight-car painting shop, others Building reconstruction --- Freight-car inspection/repair shop, etc. Machine installation --- Large crane, car-body washing and painting equipment, ultrasonic flaw detector, car-body traverser, etc. Machine replacement --- Wheel lathe, etc. Others --- Maintenance of passage, floor surface, track, etc.							
8.DATE OF S/W	Oct.1986	Imp. Period:						.1989-.1994	.1989-.1996	(Description) The project was incorporated in the 8th Long-term Plan.  Mar.1990 OECF loan agreement signed (1,256 million yen) For the provision of equipment for Jamalpur and Perambur Workshops  Aug.1990 The Indian Railway requested JARTS to submit a proposal as the sole consultant of the consultant service agreement.  Oct.1990 JARTS submitted the proposal.  Jan.1993 An agreement was reached on the contents of services and the amount of costs. Signing of the contract is yet to be made, pending the approval by the Indian side.	
9.CONSULTANT(S)	Japan Railway Technical Service Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 21.00 EIRR2) 18.00 EIRR3)	FIRR1) 17.00 FIRR2) 16.00 FIRR3)					
10.STUDY TEAM	No.of Members 14 Period Feb.1987-Jan.1988(12 months)	Conditions and Development Impacts:		1) Improvement in level of service quality 2) Decrease in failure of rolling stock and resultant increase in availability of rolling stock. 3) High quality rolling stock will increase the effect of investments in railway ground installations and rolling stock. 4) Impetus for modernization of other workshops. 5) Increase in employment opportunities in project areas. 6) Overall decrease in rolling stock maintenance costs for the Indian Railway. 7) Improvement in maintenance technology at the workshops. 8) Impetus for development of local industries and their technological levels through introduction of new plants and machinery. 9) Improvement in worker's motivation and work safety.							
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">67.26</td> <td style="text-align: center;">43.56</td> <td style="text-align: center;">23.70</td> </tr> </table>		Total M/M	Japan					Field	67.26	43.56	23.70
Total M/M	Japan	Field									
67.26	43.56	23.70									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		OJT: Lecture were given on methods to guide workshop personnel in promoting the modernization project.		Improvement has already been made in some workshops. This project will be materialized on the basis of comprehensive studies covering improvement plans for all workshops.							
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION				①②④					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">192,044 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">185,418</td> </tr> </table>		Total	192,044 (¥'000)	Contracted	185,418						
Total	192,044 (¥'000)										
Contracted	185,418										

和名 鉄道車両工場近代化計画

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

## PROJECT SUMMARY (M/P+F/S)

ASO IND/S 201A/89

Compiled Mar.1991

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS											
1.COUNTRY	India	1.SITE OR AREA	Calcutta and Haldia		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued										
2.NAME OF STUDY	Development of Calcutta and Haldia Dock Systems of Calcutta Port Trust	2.PROJECT COST			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">Total Cost</td> <td style="text-align: center;">Local Cost</td> <td style="text-align: center;">Foreign Cost</td> </tr> <tr> <td style="text-align: center;">1)</td> <td style="text-align: center;">243,874</td> <td style="text-align: center;">137,430</td> <td style="text-align: center;">106,444</td> </tr> <tr> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> </table>		(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	243,874	137,430	106,444	2)	
(US\$1,000)	Total Cost	Local Cost	Foreign Cost													
1)	243,874	137,430	106,444													
2)																
3.SECTOR	Transportation/Port	3.CONTENTES OF MAJOR PROJECT(S)	(Description) (FY1991 Overseas Survey) The project was scaled down and modified. This Master Plan is used as the guideline of the long-term development of the port. The following projects for Calcutta Port was conducted:  1. Modernization of KPD water gate Apr. - Aug. 1991           D/D Nov. 1991 - 1993       The construction by local contractor using local finance  2. Modernization of NSD water gate  3. The replacement of Tug Cuameli Apr. - Jun. 1990       D/D Sept. 1990 - Jan. 1992 Implementation  4. Hardstanding of yards for storage of heavy/normal cargo Dec. 1990 - 1993       Implementation  5. Rehabilitation of transit sheds  6. Replacement of mobile cranes Jul. 1990 - 1992       Implementation													
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS														
5.TYPE OF STUDY	M/P+ (F/S)	4.CONDITIONS AND DEVELOPMENT IMPACTS														
6.COUNTERPART AGENCY	The coordination committee Government of India. Ministry of Surface Transport, Ports Department	4.CONDITIONS AND DEVELOPMENT IMPACTS														
7.OBJECTIVES OF STUDY	To prepare a Master Plan up to the year 2005. To prepare a Short-Term Development up to the year 1995.	4.CONDITIONS AND DEVELOPMENT IMPACTS														
8.DATE OF S/W	Dec.1987	4.CONDITIONS AND DEVELOPMENT IMPACTS														
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja	4.CONDITIONS AND DEVELOPMENT IMPACTS														
10.STUDY TEAM	No.of Members   13 Period   May.1988-Oct.1989(17 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">142.26</td> <td style="text-align: center;">72.09</td> <td style="text-align: center;">70.17</td> </tr> </table>	Total M/M					Japan	Field	142.26	72.09	70.17	Demand Forecast   (unit: 1,000t)  Liquid Bulk Cargo   2,495 Dry Bulk Cargo       1,070 Container Cargo      2,235 Other General Cargo  2,910				
Total M/M	Japan	Field														
142.26	72.09	70.17														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Soil investigation Sounding	5.technical transfer	2.MAJOR REASONS FOR PRESENT STATUS  A part of the project is integrated into the 8th Five-Year Plan.													
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">276,611 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">280,277</td> </tr> </table>	Total					276,611 (¥'000)	Contracted	280,277	Through discussion with counterpart, we conducted technical transfer such as the way of thinking of the study and the study method and so on.	3.PRINCIPAL SOURCE OF INFORMATION  ①②					
Total	276,611 (¥'000)															
Contracted	280,277															

和名 カルカッタ・ハルデア港開発計画

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



# PROJECT SUMMARY (M/P+F/S)

ASO IND/S 201B/89

Compiled Mar.1991  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
<b>1.COUNTRY</b>	India	<b>1.SITE OR AREA</b>				<b>1.PRESENT STATUS</b>	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
<b>2.NAME OF STUDY</b>	Development of Calcutta and Haldia Dock Systems of Calcutta Port Trust	<b>2.PROJECT COST</b>		Total Cost	Local Cost		
<b>3.SECTOR</b>	Transportation/Port			1) 243,874	137,430	106,444	
<b>4.REFERENCE NO.</b>							
<b>5.TYPE OF STUDY</b>	(M/P)+F/S						
<b>6.COUNTERPART AGENCY</b>	The coordination committee Government of India (Ministry of Surface Transport, Port Department)	<b>3.CONTENTS OF MAJOR PROJECT(S)</b>					
<b>7.OBJECTIVES OF STUDY</b>	To prepare a Master Plan up to the year 2005. To prepare a Short-Term Development plan up to the year 1995.	Short-Term Plan with the target year to 1995					
<b>8.DATE OF S/W</b>	Dec.1987	<b>4.FEASIBILITY AND ITS ASSUMPTIONS</b>		Feasibility: Yes	EIRR1) 17.13	FIRR1) 12.14	
<b>9.CONSULTANT(S)</b>	Overseas Coastal Area Development Institute of Ja			EIRR2)	FIRR2)	EIRR3)	
<b>10.STUDY TEAM</b>	No. of Members 13 Period May.1988-Oct.1989 (17 months)	Conditions and Development Impacts:					
	Total M/M Japan Field	Demand forecast					
	142.26 72.09 70.17	Calcutt Haldia Port (unit: 1,000t)					
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>	Soil investigation Sounding	Liquid Bulk Cargo 1,210					
		Dry Bulk Cargo 610					
		Container Cargo 1,110					
		Other General Cargo 2,210					
<b>12.EXPENDITURE</b>	Total 276,611 (¥000)	<b>5. TECHNICAL TRANSFER</b>					
	Contracted 280,277	Through discussion with counterpart, we conducted technical transfer by transmitting our idea of the study and the study method and so on.					
				<b>2.MAJOR REASONS FOR PRESENT STATUS</b>			
				(FY1991 Overseas Survey) The following Feasibility Studies were conducted using local funds.  1. Calcutta Port 1) Development of 4-lane bridge (Apr. 1990 - Aug. 1991) 2) Channel navigation/VIMS project (Jan. 1990 - Aug. 1991) 3) Replacement of Floating Crane (Feb. 1990 - Aug. 1991)  2. Halida Port 1) Replacement of dredger (Mar. 1990 - Aug. 1991) 2) Procurement of Grab Dredger (Mar. 1990 - Aug. 1991)  Due to the decrease of the cargo destined for former USSR countries, and the little need to invest in the new port (Haldia) by port users, implementation of the project is not expected at this moment.			
				<b>3.PRINCIPAL SOURCE OF INFORMATION</b>			
				①②			

和名 カルカッタ・ハルデア港開発計画

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

# PROJECT SUMMARY (F/S)

ASO IND/S 303/89

Compiled Mar.1991  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																			
<b>1.COUNTRY</b>	India	<b>1.SITE OR AREA</b>				<b>1.PRESENT STATUS</b>	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing																		
<b>2.NAME OF STUDY</b>	Development Plan for the New Delhi Railway Station	200 kilometers around New Delhi																							
<b>3.SECTOR</b>	Transportation/Railway	<b>2.PROJECT COST</b>				(Description) In the Works Programme of the Indian Railway for FY1991, Rs.500 million was earmarked for the work for 3 to 4 years. Station yard improvements and so on are partially under way by the Indian Railway and local contractors. It is uncertain whether the request will be made for further Japanese cooperation in the course of the project implementation in the future.																			
<b>4.REFERENCE NO.</b>		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> <td style="width: 15%;"></td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1) 94,727,000</td> <td style="text-align: center;">83,544,000</td> <td style="text-align: center;">11,183,000</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td></td> <td></td> <td></td> </tr> </table>							Total Cost	Local Cost	Foreign Cost		(US\$1,000)	1) 94,727,000	83,544,000	11,183,000			2)					3)	
	Total Cost	Local Cost	Foreign Cost																						
(US\$1,000)	1) 94,727,000	83,544,000	11,183,000																						
	2)																								
	3)																								
<b>5.TYPE OF STUDY</b>	F/S	<b>3.CONTENTES OF MAJOR PROJECT(S)</b>				It is uncertain whether the request will be made for further Japanese cooperation in the course of the project implementation in the future.																			
<b>6.COUNTERPART AGENCY</b>	Northern Railway	- Target year: 2010, 1st half period (from present to 2000), latter half period (from 2000 to 2010) - Track improvement plans: 1st half period --- track addition, electrification, and signal modernization for 6 lines(718.6km) and improvement of bottlenecks in Delhi (grade separation); Latter half period --- track addition, electrification, and signal modernization for 8 lines(730.6km) and improvement of bottlenecks in Delhi (grade separation) - Improvement of New Delhi station 1. Station improvement 1)Track layout 2)Reconstruction of main structures 3)Related facilities (water supply and drainage, car cleaning, and electric facilities) 2. Passenger facilities (facilities that serve for smooth passenger flow: passenger service facilities; station offices; others) 1) Station office improvement (construction of station offices in the eastern entrance, reconstruction in the western entrance) 2) Auxiliary facilities -Mechanical facilities: escalators, baggage lifts, air-conditioning facilities; -electric facilities: substations, power lines and related facilities, lighting facilities) 3)Station plaza development 3. Passenger information and guidance systems. 4. Telecommunications facilities.																							
<b>7.OBJECTIVES OF STUDY</b>	To formulate a Master Plan for the modernization of railway terminal in Delhi area; and to conduct a feasibility study for the modernization plan on New Delhi Railway Station	<b>4.FEASIBILITY AND ITS ASSUMPTIONS</b>				<b>2.MAJOR REASONS FOR PRESENT STATUS</b> The Indian side can deal with many parts of the project in respect of technology and finance.																			
<b>8.DATE OF S/W</b>	Apr.1988	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Feasibility:</td> <td style="width: 15%; text-align: center;">EIRR1)</td> <td style="width: 15%; text-align: center;">19.50</td> <td style="width: 15%; text-align: center;">FIRR1)</td> <td style="width: 15%; text-align: center;">12.13</td> </tr> <tr> <td></td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">EIRR2)</td> <td></td> <td style="text-align: center;">FIRR2)</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">EIRR3)</td> <td></td> <td style="text-align: center;">FIRR3)</td> <td></td> </tr> </table>							Feasibility:	EIRR1)	19.50	FIRR1)	12.13		Yes	EIRR2)		FIRR2)				EIRR3)		FIRR3)	
	Feasibility:	EIRR1)	19.50	FIRR1)	12.13																				
	Yes	EIRR2)		FIRR2)																					
		EIRR3)		FIRR3)																					
<b>9.CONSULTANT(S)</b>	Japan Railway Technical Service Tonichi Engineering Consultants, Inc.	<b>Conditions and Development Impacts:</b>				<b>3.PRINCIPAL SOURCE OF INFORMATION</b> ①																			
<b>10.STUDY TEAM</b>	No.of Members 13 Period Nov.1988-Jan.1990(11.5 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">Total M/M</td> <td style="width: 15%; text-align: center;">Japan</td> <td style="width: 15%; text-align: center;">Field</td> </tr> <tr> <td></td> <td style="text-align: center;">30.18</td> <td style="text-align: center;">35.55</td> </tr> </table>	Total M/M	Japan	Field				30.18	35.55	Preconditions: 1.Economic prices 1)Domestic materials are evaluated by the economic prices obtained by deducting domestic consumption and sales taxes (20%, 7%) from market prices. 2)Imported materials are evaluated by the total of CIF prices and domestic transport and distribution costs. 3)Labor costs are evaluated by annual incomes of standard workers. 4)Exchange rate --- Daily median value average for August 1989. 2.Inflation: Inflation is not considered. 3.Project life: 31 years from 1990 to 2020. 4.Reinvestment and depreciation: It is assumed that, for the depreciable assets whose service life expires within the project life, reinvestment of the initial amount is conducted in the following year. 5. Residual value: the residual value of the depreciable assets as of the last year of the project is earmarked as benefit. 6. Economic growth rate: 5% up to the year 2010, 4% after 2010. Development Impacts: Implementation of this project would greatly contribute to the vitalization of economy in the New Delhi Metropolitan Area through improvement of transport efficiency and elevation of service level.															
Total M/M	Japan	Field																							
	30.18	35.55																							
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>	None	<b>5. TECHNICAL TRANSFER</b>																							
<b>12.EXPENDITURE</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">216,046 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Total</td> <td></td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">186,641</td> </tr> </table>		216,046 (¥'000)	Total				Contracted	186,641	1) During site investigations, technical transfer was made in such respects as planning and construction methods. 2) One counterpart received JICA training.															
	216,046 (¥'000)																								
Total																									
Contracted	186,641																								

和名 ニューデリー駅近代化計画

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

# PROJECT SUMMARY (F/S)

ASO IND/S 304/90

Compiled Mar.1992  
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	India	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Improvement Plan of New Mangalore	2.PROJECT COST		Total Cost	Local Cost		
3.SECTOR	Transportation/Port			(US\$1,000)	76,521	49,460	27,061
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)				(Description) Kudremukh, a user of the Iron Ore Berth, is worried whether the project is profitable, because the project cost is expensive. Therefore, the project has not been implemented.  (1991 Survey of JICA Overseas Office) KIOCL has decided to construct the iron ore berth. The D/D on the oil related facilities was conducted and these facilities are expected to be constructed in the near future. The M/P by JICA is reviewed periodically.	
5.TYPE OF STUDY	F/S	1. Review of Master Plan 1) Iron Ore Berth, Oil Berth. 2) Oil Product Berth, Coal Berth. 3) Breakwaters 4) Dredging  2. Short-term plan with the target year of 1995 1) Improvement of the existing Iron Ore Berth to 100,000 DWT class. 2) Reconstruction of the existing 0:7 Product Jetty to a Crude 0:7 Jetty of 100,000 DWT class 3) Construction of an 0:7 Product Jetty of 85,000 DWT class 4) Extension of the Southern and Northern Breakwaters up to 1,500m 5) Deepening and widening of the channel 6) Deepening and widening of the Basin					
6.COUNTERPART AGENCY	The Coordination Committee Government of India (Ministry of Surface Transport), Joint Secretary (Ports)	8.DATE OF S/W		Imp. Period: .1991-.1993 .1992-.1994		2.MAJOR REASONS FOR PRESENT STATUS  It is integrated into the National Development Plan.	
7.OBJECTIVES OF STUDY	To prepare a Master Plan up to the year 2004/2005 To prepare a Short-term Plan up to the year 1994/1995	9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS			
8.DATE OF S/W	Mar.1989	Overseas Coastal Area Development Institute of Jap Yachiyo Engineering Co., Ltd.		Feasibility: Yes		EIRR1) 22.90 FIRR1) 12.50 EIRR2) EIRR3) FIRR3)	
9.CONSULTANT(S)		10.STUDY TEAM		Conditions and Development Impacts:			
10.STUDY TEAM	No.of Members 12 Period Aug.1989-Aug.1990 (13 months)	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer		Total M/M Japan Field 56.52 26.22 30.30	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Wave observation, and current observation etc.	12.EXPENDITURE		1)Counterpart training; 2) technical transfer by OJT			
12.EXPENDITURE	Total 219,260 (¥'000) Contracted 224,275						

和名 ニュー・マンガロール港改良計画

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

## PROJECT SUMMARY (F/S)

Compiled Mar.1993  
Revised

ASO IND/A 301/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																
<b>1.COUNTRY</b>	India	<b>1.SITE OR AREA</b>				<b>1.PRESENT STATUS</b>	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="radio"/> Processing															
<b>2.NAME OF STUDY</b>	Irrigation and Drainage Development of Sharda Canal CAD Project	Command area Hardoi Branch Canal within Sharda Canal CAD Project																				
<b>3.SECTOR</b>	Agriculture/General	<b>2.PROJECT COST</b>		Total Cost	Local Cost	Foreign Cost																
<b>4.REFERENCE NO.</b>		(US\$1,000)	1) 2) 3)	129,386	107,336	22,046																
<b>5.TYPE OF STUDY</b>	F/S	<b>3.CONTENTS OF MAJOR PROJECT(S)</b>				<b>(Description)</b> To implement the Project, the request from the government of Uttar Pradesh State, where the project is located, to the Central Government is first required. Up to the present, no action has been taken by the State Government.																
<b>6.COUNTERPART AGENCY</b>	Ministry of Water Resources. Department of Area Development of Uttar Pradesh State Government.	1. Irrigation Plan 1.1 Improvement of Existing Irrigation System: 53,161ha 1.2 Sai River Pump Lift Irrigation Scheme: 4,989ha 1.3 Ground Water Development: 1,180nos 1.4 Establishment of Wireless Communication System 2. Drainage Plan 3. On-farm Development Plan 4. Improvement Plan of Water logging and Salt Affected Areas: 17,950ha 5. Corp Production Plan 6. Plan to Actualize Osrafandi																				
<b>7.OBJECTIVES OF STUDY</b>	To formulate an optimum agricultural development plan for the selected areas in the command area of Sharda canal CAD Project.																					
<b>8.DATE OF S/W</b>	Apr.1990	<b>Imp. Period:</b> Jan.1993-Dec.1998																				
<b>9.CONSULTANT(S)</b>	Nihon Koei Co., Ltd. Hokkaido Engineering Consultants Co., Ltd.	<b>4.FEASIBILITY AND ITS ASSUMPTIONS</b>		Feasibility: Yes	EIRR1) 15.50 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)																
<b>10.STUDY TEAM</b>	No. of Members 10 Period Sep.1990-Jul.1991 (11 months)	<b>Conditions and Development Impacts:</b> Conditions: Expansion of irrigation area through stable water supply Training, education, research & extension to farmers Drainage improvement Education to women Soil improvement Application of organic matter and green manure Impacts: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Production increase(ton)</th> <th style="text-align: center;">w/o project</th> <th style="text-align: center;">w project</th> </tr> </thead> <tbody> <tr> <td>rice</td> <td style="text-align: center;">42,000</td> <td style="text-align: center;">101,000</td> </tr> <tr> <td>wheat</td> <td style="text-align: center;">64,500</td> <td style="text-align: center;">102,400</td> </tr> <tr> <td>pulses</td> <td style="text-align: center;">2,200</td> <td style="text-align: center;">15,900</td> </tr> <tr> <td>oil crops</td> <td style="text-align: center;">12,000</td> <td style="text-align: center;">62,600</td> </tr> </tbody> </table> Economic benefit is estimated at Rp.488.5 x 10 <sup>6</sup> . Farm budget analysis made to the poorest farmers having marginal land reveal that the project will increase their income by 50% to 120% and contribute much their nutrition status.				Production increase(ton)	w/o project	w project	rice	42,000	101,000	wheat	64,500	102,400	pulses	2,200	15,900	oil crops	12,000	62,600	<b>2.MAJOR REASONS FOR PRESENT STATUS</b> - The Government of India requires a large proportion of grant aid in the financial assistance.  - The Government of India considers that unit cost per ha is rather high for extension of the proposed development concept to surrounding areas.	
Production increase(ton)	w/o project	w project																				
rice	42,000	101,000																				
wheat	64,500	102,400																				
pulses	2,200	15,900																				
oil crops	12,000	62,600																				
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>		<b>5. TECHNICAL TRANSFER</b>				<b>3.PRINCIPAL SOURCE OF INFORMATION</b>																
<b>12.EXPENDITURE</b>	Total 228,100 (¥'000) Contracted 229,851	Training of Indian counterpart personnel in the course of the study as for on-farm development and water management.																				

和名 シャルダ灌漑・排水事業整備計画

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

## PROJECT SUMMARY (Other)

ASE IDN/S 601/74

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
<b>1.COUNTRY</b>	Indonesia	<b>1.SITE OR AREA</b>	Central part of Java, Solo River basin (16,000sq.km, population 10 million)			<b>1.PRESENT STATUS</b>	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
<b>2.NAME OF STUDY</b>	Solo River Basin Development (follow-up)	<b>2.PROJECT COST</b>				Total Cost    Local Cost    Foreign Cost (US\$1,000)            1) 2)	
<b>3.SECTOR</b>	Social Infrastructures/Water Resource Development	<b>3.CONTENTS OF MAJOR PROJECT(S)</b>					
<b>4.REFERENCE NO.</b>		After the completion of the Master Plan Study in July 1974, this follow-up study gave technical guidance on topographic mapping and underground water boring.					
<b>5.TYPE OF STUDY</b>	Other						
<b>6.COUNTERPART AGENCY</b>	Directorate General of Water Resources Development						
<b>7.OBJECTIVES OF STUDY</b>	Guidance on topographic mapping and boring						
<b>8.DATE OF S/W</b>	.0						
<b>9.CONSULTANT(S)</b>		<b>4.CONDITIONS AND DEVELOPMENT IMPACTS</b>					
<b>10.STUDY TEAM</b>	No.of Members Period Nov.1974-Mar.1975 (4 months)				<b>2.MAJOR REASONS FOR PRESENT STATUS</b>		
	Total M/M            Japan            Field						
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>							
<b>12.EXPENDITURE</b>	Total                            3,905 (¥'000)	<b>5.TECHNICAL TRANSFER</b>			<b>3.PRINCIPAL SOURCE OF INFORMATION</b>		
	Contracted				①		

和名 ソロ河流域開発計画アフターケア

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

## PROJECT SUMMARY (M/P)

ASE IDN/S 101/75

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1.COUNTRY	Indonesia	1.SITE OR AREA	East Java Province (47,922 sq. km)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued	
2.NAME OF STUDY	Java Regional Study, East Java	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost		(Description)  Of the six priority programs, the southern coast development program and the rural development program were selected and another M/P study, "Southern Coast Development Plan, East Java," was undertaken during FY1978 - 1979.  Some of the projects which were central to the priority programs have been financed by the OECF loans as follows.  1) Wonogiri Multi-purpose Dam and Irrigation Development - OECF loan agreements signed in Jan. 1976 (430 million yen) and Aug. 1977 (9.8 billion yen) for the dam. - OECF loan agreements signed in Mar. 1977 (513 million yen) and in Feb. 1979 (9.8 billion yen) for the irrigation development.  2) River channel improvement of upstream Solo River and Madiun River - OECF loan agreement signed in Feb. 1985 (6.4 billion yen)  3) Flood control of midstream Brantas River - OECF loan agreements signed in Oct. 1977 (504 million yen), in Mar. 1979 (5,718 million yen) and in Feb. 1985 (6 billion yen).		
3.SECTOR	Development Plan/Integrated Regional Development Plan	(US\$1,000)	1)	2)			
4.REFERENCE NO.		3.CONTENTENTS OF MAJOR PROJECT(S)			2.MAJOR REASONS FOR PRESENT STATUS		
5.TYPE OF STUDY	M/P	The study proposed six priority programs and two supportive programs as follows. Priority Programs: (1) Industrialization; (2) Water resource development; (3) Madura agricultural development; (4) Southern coast development; (5) Rural development; and (6) Community facilities development  Supportive Programs: (7) Training; and (8) Strengthening of BAPPEDA					
6.COUNTERPART AGENCY	Ministry of Public Works and Power	4.CONDITIONS AND DEVELOPMENT IMPACTS					
7.OBJECTIVES OF STUDY	Regional development planning for increased equity of income distribution	The development strategy proposed by the study combines the top-down approach to industrialization and regional planning and the bottom-up approach to rural development and water resource development.					
8.DATE OF S/W	Apr.1975	10.STUDY TEAM			3.PRINCIPAL SOURCE OF INFORMATION  ①④		
9.CONSULTANT(S)	International Development Center of Japan						
No.of Members    8 Period    Mar.1975-Jan.1976(10 months)		5.technical transfer					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total M/M</td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> </tr> <tr> <td style="text-align: center;">24.60</td> <td style="text-align: center;">13.40</td> <td style="text-align: center;">11.20</td> </tr> </table>							Total M/M
Total M/M	Japan	Field					
24.60	13.40	11.20					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		-Participation of counterparts in the JICA training program -OJT on regional development planning					
12.EXPENDITURE							
Total		67,354 (¥'000)					
Contracted		39,653					

和名 東部ジャワ州総合開発

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

# PROJECT SUMMARY (F/S)

ASE IDN/S 301/75

Compiled Mar.1986

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Indonesia	1.SITE OR AREA	Upstream area of Solo River Basin (Kab. Wonogiri), in Central Java Province			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY		2.PROJECT COST		Total Cost	Local Cost	(Description)		
Wonogiri Multipurpose Dam Project		1) (US\$1,000) 211,330 2) (US\$1=415Rp) 120,010 3) 91,320						
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)						
Social Infrastructures/Water Resource Development		1. Dam and reservoir Dam: Catchment area: 1,350 sq. km, Rockfill type, Crest elevation: 141.60m SHVP, max. height of dam: 37.5 m, Crest length: 1,440m, Embankment volume: 1.8 cu. m Reservoir: Gross storage capacity: 730 million cu. m, Sediment storage capacity: 120 million cu. m, Effective storage capacity: 440 million cu. m, Flood control capacity: 220 million cu. m 2. Irrigation Irrigation area: 23,600 ha; Colo diversion weir: Concrete weir, Height of weir: 10 m, Length of weir: 108m; Irrigation canal: Length of main canal: 89.5 km, Length of secondary canal: 144.9 km; Crossing: 17 siphons, 16 aqueducts, 95 culverts, 183 bridges, 49 turnouts, 6 checkgates and 3 regulating reservoirs 3. Power station Turbine: 2 units of 5,100kW vertical shaft Kaplan type, Generator: 2 units of 6,375 kVA alternate current generators 4. Flood control (River improvement) Improved section: Nquter - Surakarta, Length of the section: 32.2 km along the main river and 17.5 km along the tributaries, Design discharge (after dam regulation): 1,600 cu. m/sec at beginning section (Nquter) and 2,000 cu. m/sec at end section (Surakarta)						
4.REFERENCE NO.		Imp. Period: Oct.1976-Nov.1983						
5.TYPE OF STUDY		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1 13.90 EIRR2 EIRR3			FIRR1 FIRR2 FIRR3
6.COUNTERPART AGENCY		Conditions and Development Impacts: The combined effects of (1) flood control, (2) irrigation, (3) power generation and (4) dam and river channel improvement are evaluated. Development impacts: (1) Flood control effect by the dam (4,000 cu.m per second reduced to 400 cu.m per sec) (2) Irrigation for 23,600 ha with cropping intensity of 2.5. (3) Reduction of flooding (4) Power generation of 28,200 MWh						
7.OBJECTIVES OF STUDY		A F/S of irrigation sector, power sector and flood control among the Solo River Basin Master Plan, taking into account the importance of increasing food production, lessening flood damage and supplying hydro-electric power.						
8.DATE OF S/W								.0
9.CONSULTANT(S)		10.STUDY TEAM						
Nihon Koei Co., Ltd. CTI Engineering Co., Ltd. Japan Engineering Consultants Co., Ltd.		No. of Members 20		Period Nov.1974-Oct.1975 (12 months)				
		Total M/M		Japan	Field			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		12.EXPENDITURE						
		Total		136,361 (¥'000)				
		Contracted		131,851				
		5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS		
		(1) On-the-job training (2) Counterpart training program (JICA) (3) Provision of equipment				(1) large impact: the first project on Solo River was expected to solve the problem of flood in Surakarta. (2) high priority: contribution to food self-sufficiency. (3) strong administrative support: compatible to the strategy of the 5-year development plan.		
						3.PRINCIPAL SOURCE OF INFORMATION		
						①①		

和名 ウオノギリ多目的ダム建設計画

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

# PROJECT SUMMARY (F/S)

ASE IDN/S 303/76

Compiled Mar.1976  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
<b>1.COUNTRY</b>	Indonesia	<b>1.SITE OR AREA</b>	Cilacap - Malang Corridor			<b>1.PRESENT STATUS</b>	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
<b>2.NAME OF STUDY</b>	Central and East Java Road Betterment Project	<b>2.PROJECT COST</b>	Total Cost	Local Cost	Foreign Cost	(Description)  Apr.1977 OECF L/A signed (E/S 226 million yen) Sep.1979 D/D completed Jun.1980 OECF L/A signed (3,600 million yen) Nov.1987 Construction completed  Realized project: Road improvement of 170km Buntu-Wonosobo Section (Central Java) Wonosobo-Secang Section (Central Java) Ponogoro-Blitan (East Java)	
<b>3.SECTOR</b>	Transportation/Road	(US\$1,000)	53,000	33,000			
<b>4.REFERENCE NO.</b>		1)				(Description)  Apr.1977 OECF L/A signed (E/S 226 million yen) Sep.1979 D/D completed Jun.1980 OECF L/A signed (3,600 million yen) Nov.1987 Construction completed  Realized project: Road improvement of 170km Buntu-Wonosobo Section (Central Java) Wonosobo-Secang Section (Central Java) Ponogoro-Blitan (East Java)	
<b>5.TYPE OF STUDY</b>	F/S	2)					
<b>6.COUNTERPART AGENCY</b>	Bina Marga (Directorate General of Highways, Ministry of Public Works)	3)				(Description)  Apr.1977 OECF L/A signed (E/S 226 million yen) Sep.1979 D/D completed Jun.1980 OECF L/A signed (3,600 million yen) Nov.1987 Construction completed  Realized project: Road improvement of 170km Buntu-Wonosobo Section (Central Java) Wonosobo-Secang Section (Central Java) Ponogoro-Blitan (East Java)	
<b>7.OBJECTIVES OF STUDY</b>	Widening, overlay and realignment of roads	<b>3.CONTENTS OF MAJOR PROJECT(S)</b>	Improvement of road condition in four routes connecting Central and East Java provinces (Project Routes) ROUTE 1: Buntu - Pringsurat 145.2 km ROUTE 2: Salaman - Purworejo 27.2 km ROUTE 3: Surakarta - Wonoqiri 32.2 km ROUTE 4: Ponoroqo - Biltar 117.5 km TOTAL 322.1 km				
<b>8.DATE OF S/W</b>	Nov.1975	<b>4.FEASIBILITY AND ITS ASSUMPTIONS</b>	Feasibility: Yes	EIRR1) 37.98 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	(Description)  Apr.1977 OECF L/A signed (E/S 226 million yen) Sep.1979 D/D completed Jun.1980 OECF L/A signed (3,600 million yen) Nov.1987 Construction completed  Realized project: Road improvement of 170km Buntu-Wonosobo Section (Central Java) Wonosobo-Secang Section (Central Java) Ponogoro-Blitan (East Java)	
<b>9.CONSULTANT(S)</b>	Mitsui Consultants Co., Ltd.	Conditions and Development Impacts: 1) Project life of 10 years, social discount rate at 15% 2) Evaluation based on alternative plans for standards of design and stages of construction Standards of design Plan 1 (from longer-run point of view): a 2-lane carriageway with a minimum width of 6m for each of the four project routes Plan 2 (responding to stages of regional development): adoption of tentative standards (width ranged 4.5 - 6m) according to the traffic volume in the respective routes Stages of construction Non-staged construction: based on traffic volume in 1990 Staged construction: 1st stage based on traffic volume in 1985 and 2nd stage on that in 1990 Plan 2 with non-staged construction was evaluated as best. (Development Impacts) (1) Promoting economic development in the areas along the project roads (Cilacap-Malang, Cilacap-Semarang) (2) Indirect diffusion effects on economic development in conjunction with other road construction/ betterment projects in the whole Central and East Java Provinces					
<b>10.STUDY TEAM</b>	No. of Members 21 Period Nov.1975-Aug.1976 (10 months)	(Description)  Apr.1977 OECF L/A signed (E/S 226 million yen) Sep.1979 D/D completed Jun.1980 OECF L/A signed (3,600 million yen) Nov.1987 Construction completed  Realized project: Road improvement of 170km Buntu-Wonosobo Section (Central Java) Wonosobo-Secang Section (Central Java) Ponogoro-Blitan (East Java)				<b>2.MAJOR REASONS FOR PRESENT STATUS</b>  (1) Benefit: Economic development was greatly promoted along the routes of Cilacap-Malang and Cilacap-Semarang. (2) The completion of this roads has had a great repercussions in the close relation to the other project roads of the same district; Semarang-Magelang, Magelang-Purworejo, etc. (3) Top priority : These roads are playing a very important role in the development of Central and East Java in as much as they connect the Southern and Northern Coasts of Java.	
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">57.00</td> <td style="text-align: center;">39.00</td> <td style="text-align: center;">18.00</td> </tr> </table>						
Total M/M	Japan	Field					
57.00	39.00	18.00					
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>		(Description)  Apr.1977 OECF L/A signed (E/S 226 million yen) Sep.1979 D/D completed Jun.1980 OECF L/A signed (3,600 million yen) Nov.1987 Construction completed  Realized project: Road improvement of 170km Buntu-Wonosobo Section (Central Java) Wonosobo-Secang Section (Central Java) Ponogoro-Blitan (East Java)				<b>3.PRINCIPAL SOURCE OF INFORMATION</b>  ①④	
<b>12.EXPENDITURE</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left;">Total</td> <td style="text-align: center;">161,259 (¥'000)</td> </tr> <tr> <td style="text-align: left;">Contracted</td> <td style="text-align: center;">105,197</td> </tr> </table>						
Total	161,259 (¥'000)						
Contracted	105,197						
		<b>5. TECHNICAL TRANSFER</b>	Technical transfer by reception of trainees				

和名 中東部ジャワ道路改良計画

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



# PROJECT SUMMARY (F/S)

ASE IDN/S 302/76

Compiled Mar.1986  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Indonesia	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Wonogiri Irrigation and Upper Solo River Improvement Project	Surakarta Area (downstream reach at Wonogiri Dam, Middle Java)					
3.SECTOR	Social Infrastructures/River & Erosion Control	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description) Mar. 1978 OECF loan agreement for irrigation (E/S, 513 million yen) Feb. 1979 OECF loan agreement for irrigation (9,800 million yen) Jan. 1981 Construction completed Sep. 1981 OECF loan agreement (E/S, 805 million yen) Upper Solo River and Madiun River Improvement Jan.1985 Detailed design completed Dec.1985 OECF L/A signed (4,746 million yen) Mar.1988 Construction started Oct.1993 Construction to be completed  Note: The OECF loan above was for Packages 1 and 2 of the Phase I construction. Because of the large Rupiah devaluation, the implementation left a large loan balance, which was then used to construct Packages 3,4 and 5.
4.REFERENCE NO.		(US\$1,000)	1)	277,080	174,130	102,950	
5.TYPE OF STUDY	F/S	(US\$1=415Rp)	2)	82,150	47,880	34,270	
6.COUNTERPART AGENCY	Directorate General of Water Resources Development, Solo River Basin Development Project	3)		63,180	35,480	27,700	
7.OBJECTIVES OF STUDY	Irrigation, Flood control and Hydroelectric Power	3.CONTENTES OF MAJOR PROJECT(S)					
8.DATE OF S/W	.0	1. Irrigation 1) Colo intake weir: Concrete weir, Height of weir: 10 m. Length of weir: 108 m 2) Irrigation canal: a. Irrigation area: 23,200 ha, b. Length of main canal: 93.8 km, c. Length of secondary canal: 81.2 km, d. Length of tertiary canal: 928 km in total 3) Crossings: 48 turnouts, 13 gates, 27 siphons, 16 head races and 259 bridges					
9.CONSULTANT(S)	Nihon Koei Co., Ltd. CTI Engineering Co., Ltd. Japan Engineering Consultants Co., Ltd.	2. River improvement 1) Improvement area: Nguter railway bridge-Jurug road bridge, Surakarta City 2) Length of river improvements: 33km along Solo River and 30.5 km along eight tributaries 3) Designed discharge after dam construction: 1,050 cu.m/s at Nguter railway bridge and 2,000 cu.m/s at Jurug road bridge 4) two retarding basins (capacity: 27 million cu.m and 18 million cu.m) 5) Length of bank protection: 7 km 6) 395 spur dikes (13 km) 7) 32 sluice-ways 8) Length of drains for water inside dikes					
10.STUDY TEAM	No.of Members 22 Period Jan.1976-Sep.1976 (7 months)	3. Wonoqiri Dam 1) Catchment area: 1,350 sq.km 2) Rockfill type dam 3) Fill: 18 million cu.m 4) Intake capacity for irrigation at Colo weir: 400 million cu.m 5) Intake capacity for river maintenance: 30 million cu.m					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		4. Water power station 1) Turbines: two units of 5,100 kW Kaplan-type turbines 2) Generator: two units of 6,375 kVA generators 3) Maximum output: 10,200 kW 4) Yearly average output: 28,200 MWh					
12.EXPENDITURE	Total 164,779 (¥'000) Contracted 158,217	Note: One study consists of this study and Wonoqiri Irrigation and Upper Solo River Improvement Project study (Agriculture/General). The above project costs are for: 1) total 2) irrigation 3) river improvement. In addition to these, 4) dam and reservoir (total: 115,200, local: 88,250 and foreign: 26,970) and 5) hydroelectric power station (total: 16,530, local: 2,520 and foreign: 14,010) were calculated.					
		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 12.10 EIRR2) 12.50 EIRR3) 11.70	FIRR1) FIRR2) FIRR3)	2.MAJOR REASONS FOR PRESENT STATUS  1.Large economic impact 2.High priority 3.Good financial position 4.Stable political background
		Conditions and Development Impacts: 1. Primary benefits 1) a. Irrigation benefits, b. Flood damage at Sragen district (negative benefit), c. Farm production increase by the supply of water in the project area to the outside area, and d. Saved maintenance fee by the pump disposal, 2) Flood control benefits: decrease of flood damage 3) Hydroelectric power benefits 2. Secondary benefits 1) Economic benefits by fishery, recreations, tourism and water. 2) Foreign currency saving by the decrease of import paddy from paddy production increase. Note: The above EIRRs are for: 1) total project, 2) irrigation, and 3) river improvement. In addition to these 4) EIRR for hydroelectric power was calculated as 8.9.					
		5. TECHNICAL TRANSFER		(1) OJT, (2) Training in Japan (3) Cooperative reporting (4) Supply of equipment and instruction of operation			3.PRINCIPAL SOURCE OF INFORMATION  ①④

和名 ウオノギリ多目的ダム計画関連灌漑及び河川改修計画

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

# PROJECT SUMMARY (F/S)

ASE IDN/A 301/76

Compiled Mar.1990  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																			
1.COUNTRY	Indonesia	1.SITE OR AREA		Area with 5km wide and 60km long along the Solo river (population is 25 million centering on Surakarta city of Java island)		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing																		
2.NAME OF STUDY		2.PROJECT COST																							
Wonogiri Irrigation and Upper Solo River Improvement Project		<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">1)</td> <td style="text-align: center;">Total Cost</td> <td style="text-align: center;">Local Cost</td> <td style="text-align: center;">Foreign Cost</td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td></td> <td style="text-align: center;">277,080</td> <td style="text-align: center;">174,130</td> <td style="text-align: center;">102,950</td> </tr> <tr> <td style="text-align: center;">US\$1=415Rp.</td> <td style="text-align: center;">2)</td> <td style="text-align: center;">82,150</td> <td style="text-align: center;">47,880</td> <td style="text-align: center;">34,270</td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td style="text-align: center;">63,180</td> <td style="text-align: center;">35,480</td> <td style="text-align: center;">27,700</td> </tr> </table>			1)	Total Cost	Local Cost	Foreign Cost	(US\$1,000)		277,080	174,130	102,950	US\$1=415Rp.	2)	82,150	47,880	34,270		3)	63,180	35,480	27,700	(Description)  Mar.1977 OECF L/A signed (E/S, 513 million yen) 1977 - 1979 D/D undertaken (Nippon Koei Co.) Feb.1979 OECF L/A signed (9.8 billion yen) 1980 - 1986 Construction undertaken  OECF Loan: - Irrigation development (23,200 ha) - Intake weir at Colo (height 8.68m, length 111.75m) - Irrigation canals (main 95km, branch 80km)	
	1)	Total Cost	Local Cost	Foreign Cost																					
(US\$1,000)		277,080	174,130	102,950																					
US\$1=415Rp.	2)	82,150	47,880	34,270																					
	3)	63,180	35,480	27,700																					
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)																							
Agriculture/General		1. Irrigation 1) Colo intake weir: Concrete weir, Height of weir: 10m, Length of weir: 108m 2) Irrigation canal: a. Irrigation area: 23,200ha b. Length of main canal: 93.8km c. Length of secondary canal: 81.2km d. Length of tertiary canal: 928km in total 3) crossings: 48 turnouts, 13 gates, 27 siphons, 16 head races and 259 bridges 2. River improvement 1) Improvement area: Nguter railway bridge-Jurug road bridge, Surakarta city 2) Length of river improvement: 33km along Solo River and 30.5km along eight tributaries 3) Designed discharge after dam construction: 1,050 cu.m/s at Nguter railway bridge and 2,000 cu.m/s at Jurug road bridge 4) two retarding basins (capacity: 27 million cu.m and 18 million cu.m) 5) Length of bank protection: 7km 6) 395 spur dikes (13km) 7) 32 sluice-ways 8) Length of drains for water inside dikes 3. Wonogiri Dam 1) Catchment area: 1,350 sq.km 2) Rockfill type dam 3) Fill: 18 million cu.m 4) Intake capacity for irrigation at Colo weir: 400 million cu.m 5) Intake capacity for river maintenance: 30 million cu.m 4. Water power station 1) Turbines: two units of 5,100kW Kaplan-type turbines 2) Generator: two units of 6,375 kVA generators 3) Maximum output: 10,200 kW 4) Yearly average output: 28,200 MWh Note: One study consists of this study and Wonogiri Irrigation and Upper Solo River Improvement Project study (Social Infrastructure/River & Erosion control). The above project costs are for: 1) total 2) irrigation 3) river improvement. In addition to these, 4) dam and reservoir (total: 115,200, local: 88,250 and foreign: 26,970) and 5) hydroelectric power station (total: 16,530, local: 2,250 and foreign: 14,010) were calculated.																							
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS																							
5.TYPE OF STUDY		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Feasibility:</td> <td style="text-align: center;">EIRR1)</td> <td style="text-align: center;">12.10</td> <td style="text-align: center;">FIRR1)</td> </tr> <tr> <td style="text-align: center;">Yes</td> <td style="text-align: center;">EIRR2)</td> <td style="text-align: center;">12.50</td> <td style="text-align: center;">FIRR2)</td> </tr> <tr> <td></td> <td style="text-align: center;">EIRR3)</td> <td style="text-align: center;">11.70</td> <td style="text-align: center;">FIRR3)</td> </tr> </table>		Feasibility:	EIRR1)	12.10	FIRR1)	Yes	EIRR2)	12.50	FIRR2)		EIRR3)	11.70	FIRR3)										
Feasibility:	EIRR1)	12.10	FIRR1)																						
Yes	EIRR2)	12.50	FIRR2)																						
	EIRR3)	11.70	FIRR3)																						
6.COUNTERPART AGENCY		Conditions and Development Impacts: 1. Primary benefits 1) a. Irrigation benefits, b. Flood damage at Sragen district (negative benefit), c. Farm production increase by the supply of water in the project area to the outside area, and d. Saved maintenance fee by the pump disposal, 2) Flood control benefits: decrease of flood damage 3) Hydroelectric power benefits 2. Secondary benefits 1) Economic benefits by fishery, recreations, tourism and water. 2) Foreign currency saving by the decrease of import paddy from paddy production increase.  Note: The above EIRRs are for: 1) total project, 2) irrigation, and 3) river improvement. In addition to these 4) EIRR for hydroelectric power was calculated as 8.9																							
7.OBJECTIVES OF STUDY		5.TECHNICAL TRANSFER		2.MAJOR REASONS FOR PRESENT STATUS																					
8.DATE OF S/W		Imp. Period: May.1977-Oct.1983																							
9.CONSULTANT(S)		Nihon Koei Co., Ltd. CTI Engineering Co., Ltd. Japan Engineering Consultants Co., Ltd.																							
10.STUDY TEAM		No.of Members 15 Period Jan.1976-Sep.1976 (9 months)																							
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">91.22</td> <td style="text-align: center;">42.20</td> <td style="text-align: center;">49.02</td> </tr> </table>		Total M/M	Japan	Field	91.22	42.20	49.02			3.PRINCIPAL SOURCE OF INFORMATION  ①②															
Total M/M	Japan	Field																							
91.22	42.20	49.02																							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																									
12.EXPENDITURE																									
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">164,779 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">158,217</td> </tr> </table>		Total	164,779 (¥'000)	Contracted	158,217																				
Total	164,779 (¥'000)																								
Contracted	158,217																								

和名 ウオノギリダムかんがい及び河川改修計画

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

# PROJECT SUMMARY (M/P)

ASE IDN/S 102/77

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS			
1.COUNTRY	Indonesia	1.SITE OR AREA	Central Java Province (34,206 sq.km)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
2.NAME OF STUDY	Java Regional Study: Central Java	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)                      1) 2)		(Description)  Among the programs/projects suggested by the study, the following have been implemented. 1) F/S on Borobudur Prambanan Parks* 2) Development of the port of Semarang**  The suggestions of the study has been utilized for implementing the industrialization program, improvement of agricultural extension services, agricultural marketing improvement, potable water supply and so forth.  * OECF loan agreements signed in Apr. 1979 (E/S, 440 million yen) and in Aug. 1982 (2,805 million yen).  ** OECF loan agreements signed in Mar. 1979 (E/S, 480 million yen) in Mar. 1981 (Stage I construction, 17.3 billion yen), in Mar. 1987 (E/S, 545 million yen), in Dec. 1987 (Stage II construction, 2,420 million yen).			
3.SECTOR	Development Plan/Integrated Regional Development Plan	3.CONTENTS OF MAJOR PROJECT(S)						
4.REFERENCE NO.		The study examined the comparative advantages of the four alternatives of distributing development finance within the province and the two alternatives of development financing. The study chose the development financing alternative which aims to maintain the per capita income of the province at 55% of the national average and an appropriate mix of the four distribution alternatives, and proposed a comprehensive development program for water resource development, agriculture, industry, tourism, transportation, public utilities, housing, education, family planning, transmiration, development administration and finance, etc. Major projects identified are tertiary irrigation canal development, control of volcanic debris, highland horticulture, agricultural marketing improvement, improvement of industrial statistics, public housing through KIP programs, etc.						
5.TYPE OF STUDY	M/P	4.CONDITIONS AND DEVELOPMENT IMPACTS						
6.COUNTERPART AGENCY	Directorate of Urban Planning and Housing, Ministry of Public Works	In order to narrow down regional income disparities and to raise the level of income in the province, the study suggested to increase the allocation of the central government development budget to the province and to concentrate the public investment in the strategic priority areas.						
7.OBJECTIVES OF STUDY	Evaluation of regional development potentials and formulation of development strategies							
8.DATE OF S/W	Oct.1976							
9.CONSULTANT(S)	International Development Center of Japan							
10.STUDY TEAM	No.of Members    9 Period    Dec.1976-Nov.1977(11 months)							
	<table style="margin: auto;"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">34.80</td> <td style="text-align: center;">24.20</td> <td style="text-align: center;">10.60</td> </tr> </tbody> </table>	Total M/M	Japan	Field			34.80	24.20
Total M/M	Japan	Field						
34.80	24.20	10.60						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER						
12.EXPENDITURE		1) OJT on regional development planning 2) Participation of the counterparts in the JICA training program 3) Joint report						
	<table style="margin: auto;"> <tbody> <tr> <td style="padding-right: 20px;">Total</td> <td style="text-align: right;">72,667 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td style="text-align: right;">68,987</td> </tr> </tbody> </table>	Total	72,667 (¥'000)	Contracted	68,987	3.PRINCIPAL SOURCE OF INFORMATION		
Total	72,667 (¥'000)							
Contracted	68,987							
		①④						
2.MAJOR REASONS FOR PRESENT STATUS								

和名 中部ジャワ州総合開発計画

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

## PROJECT SUMMARY (F/S)

ASE IDN/S 304/77

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Indonesia	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY		Kalimantan, South Kalimantan Province					
Development Plan of the Banjarmasin Port		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)	1)	253,960	135,000		
		(US\$1=415Rp)	2)				
			3)				
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)				(Description)  The project was implemented by ADB financing.  Oct.1984 F/S reviewed Jun.1985 Detailed design completed Nov.1991 Construction completed  Project Outline: Wharf: 320m long and 9m deep Wharf: 500m long and 5m deep Total project cost US\$55 million	
Transportation/Port		Item Size					
4.REFERENCE NO.		Wharf L : 740m D : -10m					
5.TYPE OF STUDY		Wharf L : 1,170m D : -6m					
F/S		Wharf L : 1,770m D : -4m					
6.COUNTERPART AGENCY		Wharf L : 1,000m D : -2m					
Directorate General of Sea Communication		Warehouse 72,000sq.m					
7.OBJECTIVES OF STUDY		Imp. Period: Jan.1978-Dec.1983					
M/P aiming the year 2000		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility:	EIRR1) 24.10	FIRR1) 5.00	
F/S on the development plan aiming the year 1983				Yes	EIRR2)	FIRR2)	
				EIRR3)	FIRR3)		
8.DATE OF S/W		Mar.1976		Conditions and Development Impacts:			
9.CONSULTANT(S)		Overseas Coastal Area Development Institute of Ja		There are following conditions			
				- Future Cargo volume is based on the demand forecast for the year 1983 and 2000			
10.STUDY TEAM		No.of Members 8		- Cargo volume was forecasted 7,540 thousand tons in 2000			
		Period Oct.1976-Aug.1977 (10 months)		The following impacts are expected.			
		Total M/M		Since the area covered by Banjarmasin port includes not only South Kalimantan Province but also east central Kalimantan Province because of inland waterways like rivers and canals, it was expected that Banjarmasin port would be able to play important role as the gateway port for these two Provinces by this project.			
		Japan					
		Field					
		63.40					
		22.80					
		40.60					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY				5. TECHNICAL TRANSFER			
				Counterpart training			
12.EXPENDITURE				3.PRINCIPAL SOURCE OF INFORMATION			
		Total 157,386 (¥'000)		①②			
		Contracted 105,398					

和名 バンジャルマシンの港開発計画

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

# PROJECT SUMMARY (Other)

ASE IDN/S 602/77

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS										
1.COUNTRY	Indonesia	1.SITE OR AREA	Wuringi dam of Brantas River		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued									
2.NAME OF STUDY Brantas River Basin Development Plan (follow-up)		2.PROJECT COST			(Description)										
3.SECTOR Social Infrastructures/River & Erosion Control		(US\$1,000) <table style="float: right; margin-left: 20px;"> <tr> <td style="text-align: right;">Total Cost</td> <td style="text-align: right;">Local Cost</td> <td style="text-align: right;">Foreign Cost</td> </tr> <tr> <td style="text-align: right;">1)</td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">2)</td> <td></td> <td></td> </tr> </table>					Total Cost	Local Cost	Foreign Cost	1)			2)		
Total Cost	Local Cost	Foreign Cost													
1)															
2)															
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)													
5.TYPE OF STUDY Other		The study examined the problem of seepage of the base ground of the Wuringi dam, and advised on the suitable construction methods.													
6.COUNTERPART AGENCY Directorate General of Water Resource Development															
7.OBJECTIVES OF STUDY		4.CONDITIONS AND DEVELOPMENT IMPACTS													
8.DATE OF S/W .0							2.MAJOR REASONS FOR PRESENT STATUS								
9.CONSULTANT(S)															
10.STUDY TEAM															
No.of Members    3 Period Mar.1978-Mar.1978 (0.3 months)															
<table style="width: 100%; text-align: center;"> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> </table>							Total M/M	Japan	Field						
Total M/M	Japan	Field													
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer			3.PRINCIPAL SOURCE OF INFORMATION										
12.EXPENDITURE					①										
<table style="width: 100%;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">2,273 (¥000)</td> </tr> <tr> <td>Contracted</td> <td></td> </tr> </table>							Total	2,273 (¥000)	Contracted						
Total	2,273 (¥000)														
Contracted															

和名 ブランタス河 (ウリングダム)   アフターケア

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

## PROJECT SUMMARY (Other)

ASE IDN/S 603/77

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Indonesia	1.SITE OR AREA	Midstream basin of Brantas River in East Java Province (about 110 km in length)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Brantas Middle Reaches River Improvement Project (follow-up)	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description)  1977.10.18 OECF L/A (E/S): 504 million yen (Brantas Middle River Flood Control) 1979. 3.15 OECF L/A: 5,118 million yen (Brantas Middle River Flood Control) 1985. 2.15 OECF L/A: 6,000 million yen (Brantas Middle River Improvement (2) )
3.SECTOR	Social Infrastructures/River & Erosion Control	(US\$1,000)	1)		2)	
4.REFERENCE NO.		3.CONTENTENTS OF MAJOR PROJECT(S)				
5.TYPE OF STUDY	Other	In order to facilitate the engineering service which was scheduled to be implemented with OECF financing, this follow-up study visited the middle reaches of Brantas River and clarified the basic approach in consultation with the Indonesian Government.				
6.COUNTERPART AGENCY	Directorate General of Water Resources Development	4.CONDITIONS AND DEVELOPMENT IMPACTS				
7.OBJECTIVES OF STUDY						
8.DATE OF S/W	.0					
9.CONULTANT(S)						
10.STUDY TEAM	No.of Members 3 Period Aug.1977-Sep.1977(0.4 months)				2.MAJOR REASONS FOR PRESENT STATUS	
	Total M/M      Japan      Field					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE		5.TECHNICAL TRANSFER			①④	
	Total 2,495 (¥'000)					
	Contracted					

和名 ブランタス河中流部河川改修計画アフターケア

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

# PROJECT SUMMARY (M/P)

ASE IDN/S 103/78

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Indonesia	1.SITE OR AREA	The Whole of North and West Sumatra Provinces		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	North and West Sumatra Tourism	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description)  As more than 10 years passed since the formulation of the master plan, the review of the study was conducted in "The Study on the Integrated Regional Development Plan for the Northern Part of Sumatra" (JICA). Based on the results of the above study, the Directorate General of Tourism intends to promote tourism development in this region.kk
3.SECTOR	Tourism/General	(US\$1,000)	1) 240,060			
4.REFERENCE NO.			2)			
5.TYPE OF STUDY	M/P	3.CONTENTES OF MAJOR PROJECT(S)				
6.COUNTERPART AGENCY	Department of Tourism, Post and Telecommunication, Directorate General of Tourism	The fifteen-year master plan for tourism development (1980-1995) covered Karo Plateau area, the Lake Toba area and the Minang Highlands area. The main projects consist of (1) Conservation of nature, (2) Conservation of scenery, (3) Conservation of cultural heritage, (4) development of infrastructure and network, (5) development of tourism facilities, (6) development of tourist towns (Brastagi, Parepat and Bukittingi), etc.				
7.OBJECTIVES OF STUDY	Establishment of a basis for strategic tourism development in the North and West Sumatra provinces	4.CONDITIONS AND DEVELOPMENT IMPACTS				
8.DATE OF S/W	Dec.1976	The principles of tourism development in the study area were formulated in line with national tourism policy in order to have a maximum overall effect of linking the two provinces and to meet regional requirements, and so on. The major specific measures for tourism development consisting of 33 items were proposed on the basis of the policy assumptions which include several measures for tourism promotion, improvement of transportation network for tourists, natural and cultural conservation, etc.				
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Pacific Consultants International	10.STUDY TEAM				
		No. of Members 19 Period May.1977-Apr.1978 (12 months)				
		Total M/M	Japan	Field		
		111.40	89.50	21.90		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS	
		(1) On-the-job training for local counterparts during the field work period (2) Training in Japan for 4 high official				
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION				
Total	189,155 (¥'000)	①				
Contracted	175,082					

和名 スマトラ西部及び北部トバ湖周辺基盤整備計画

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

## PROJECT SUMMARY (M/P+F/S)

ASE IDN/S 201A/78

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
<b>1.COUNTRY</b>	Indonesia	<b>1.SITE OR AREA</b>	Ular River basin in North Sumatra Province		<b>1.PRESENT STATUS</b>	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
<b>2.NAME OF STUDY</b>	Ular River Improvement Project	<b>2.PROJECT COST</b>	Total Cost	Local Cost	Foreign Cost	(Description) Followed by F/S.
<b>3.SECTOR</b>	Social Infrastructures/River & Erosion Control	(US\$1,000)	1)		2)	
<b>4.REFERENCE NO.</b>		<b>3.CONTENTES OF MAJOR PROJECT(S)</b>				
<b>5.TYPE OF STUDY</b>	M/P+ (F/S)	1st year: survey and mapping (scale: 1/25,000) 2nd year: Master plan study proposing combined development of flood control and irrigation				
<b>6.COUNTERPART AGENCY</b>	Directorate General of Water Resources Development Ministry of Public Works,Indonesia	<b>4.CONDITIONS AND DEVELOPMENT IMPACTS</b>				
<b>7.OBJECTIVES OF STUDY</b>	Formulating the plans for river channel improvement & flood control, and irrigation & drainage improvement works in the downstream area.					
<b>8.DATE OF S/W</b>	Mar.1976					
<b>9.CONSULTANT(S)</b>	Nikken Consultants., Inc.	<b>5.TECHNICAL TRANSFER</b>				
<b>10.STUDY TEAM</b>	No.of Members 35 Period Jul.1976-Jul.1978 (24 months)				<b>2.MAJOR REASONS FOR PRESENT STATUS</b>	
	Total M/M          Japan          Field					
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>	Preparation of Topographic Map				<b>3.PRINCIPAL SOURCE OF INFORMATION</b>	
<b>12.EXPENDITURE</b>					①	
	Total 339,695 (¥'000)					
	Contracted 192,650					

和名 ウラル河総合河川改修計画 (F/Sはウラル河治水及び灌漑・排水改良計画)

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



## PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1990  
Revised Mar.1993

ASE IDN/S 201B/78

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Indonesia	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Ular River Improvement Project	Ular River basin in North Sumatra Province					
3.SECTOR	Social Infrastructures/River & Erosion Control	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description) Based on the proposals of the study, the detailed design was undertaken with an OECF loan in 1979, and the construction has been carried out with the following OECF financing.  Mar. 1979 OECF loan agreement (E/S, 420 million yen) May 1981 OECF loan agreement (8,140 million yen) 1981 E/S completed. Feb. 1990 OECF loan agreement (21,518 million yen) Part of the loan used for th Ular River Improvement Project Jun. 1995 Construction to be completed
4.REFERENCE NO.		(US\$1,000)	1)	20,736	12,947		
5.TYPE OF STUDY	(M/P)+F/S	(US\$1=625Rp.)	2)				
6.COUNTERPART AGENCY	Directorate General of Water Resources Development, Ministry of Public Works,Indonesia		3)				
7.OBJECTIVES OF STUDY	Formulating the plans for river channel improvement & flood control, and irrigation & drainage improvement works in the downstream area.	3.CONTENTS OF MAJOR PROJECT(S)					
8.DATE OF S/W	.0	1.River channel improvement (45km) 2.Downstream irrigation and drainage (18,500ha)					
9.CONSULTANT(S)	Nikken Consultants., Inc. Nihon Koel Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 20.00 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM	No.of Members 35 Period Jul.1976-Jul.1978 (24 months)  Total M/M                  Japan                  Field	Conditions and Development Impacts:					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					
12.EXPENDITURE	Total 339,695 (¥'000) Contracted 192,650	3.PRINCIPAL SOURCE OF INFORMATION					

和名 ウラル河治水及び灌漑・排水改良計画 (M/Pはウラル河総合河川改修計画)

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

# PROJECT SUMMARY (F/S)

ASE IDN/S 305/78

Compiled Mar. 1986  
Revised Mar. 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT					
<b>1. COUNTRY</b>	Indonesia	<b>1. SITE OR AREA</b>	Boundary of Jakarta			<b>1. PRESENT STATUS</b>	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input checked="" type="checkbox"/> Processing				
<b>2. NAME OF STUDY</b>	Jakarta Ring Road Project	<b>2. PROJECT COST</b>	1) Total Cost (US\$1,000)	2) Local Cost 369,000	3) Foreign Cost 150,000						
<b>3. SECTOR</b>	Transportation/Road	<b>3. CONTENTS OF MAJOR PROJECT(S)</b>	Designed length of the road: 48 km Standard: 4-lane highway standard (expandable to 6-lane standard) Width of the lane: 3.75 m Designed speed-capacity: 120 km/h Number of interchanges: 3 junctions to highways 5 interchanges to regular roads Average distance between interchanges: 6 km			(Description)  Funding request has been repeatedly submitted to OECF since 1980, but the E/S loan has not been approved, mainly because the Intra Urban Tollway System Project was given a higher priority. E/S loan for 939 million yen was pledged in 1985. The D/D was implemented in 24 months (Mar. 1988-Feb. 1990). The following segments were added. - Cengkareng Access - Jakarta-Tangerang Tollway 8.2 km - Jakarta Coastal Road - JI. Jakarta-Bekasi 6.5 km					
<b>4. REFERENCE NO.</b>											
<b>5. TYPE OF STUDY</b>	F/S										
<b>6. COUNTERPART AGENCY</b>	Directorate of Planning, Directorate General of Highway, Ministry of Public Works										
<b>7. OBJECTIVES OF STUDY</b>	Highway Plan	<b>8. DATE OF S/W</b>	Dec. 1976		<b>4. FEASIBILITY AND ITS ASSUMPTIONS</b>	Imp. Period: 1981-1985  Feasibility: Yes EIRR1) 17.50    FIRR1) EIRR2)            FIRR2) EIRR3)            FIRR3)					
<b>9. CONSULTANT(S)</b>	Pacific Consultants International	<b>10. STUDY TEAM</b>		<b>Conditions and Development Impacts:</b> Traffic volume was forecasted for 1985, 1990, 2000. Only 3/4 of the full length of the ring road was the object of the F/S. Land use plan was prepared for adjacent areas on both sides of the road. Beneficial effects include dispersion of traffic concentrating from 3 directions.							
No. of Members 15 Period Mar. 1977-Mar. 1978 (13 months)		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">Total M/M</td> <td style="width: 15%; text-align: center;">Japan</td> <td style="width: 15%; text-align: center;">Field</td> </tr> <tr> <td></td> <td style="text-align: center;">54.00</td> <td></td> </tr> </table>						Total M/M	Japan	Field	
Total M/M	Japan	Field									
	54.00										
<b>11. ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>				(1) Important element in Metropolitan Jakarta Tollway network, expected to induce development and downtown dispersion (2) Included in the general M/P as a portion of Metropolitan Jakarta Tollway network (3) Increased urgency to construct side roads before the tollways thereby E/S became necessary (4) Counterpart agency is highly experienced (5) Private sector back up in Japan							
<b>12. EXPENDITURE</b>		<b>5. TECHNICAL TRANSFER</b>		<b>3. PRINCIPAL SOURCE OF INFORMATION</b>							
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">Total</td> <td style="width: 15%; text-align: center;">151,992 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">90,809</td> </tr> </table>		Total	151,992 (¥'000)	Contracted	90,809	(1) Training of counterparts in Japan (2) Use of local consultants for soil type analysis		①			
Total	151,992 (¥'000)										
Contracted	90,809										

和名 ジャカルタリングロード計画

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

# PROJECT SUMMARY (F/S)

ASE IDN/S 306/78

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Indonesia	1.SITE OR AREA		North Sulawesi Province, North part of Sulawesi island		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY Expansion Project of the Bitung Port		2.PROJECT COST		Total Cost	Local Cost		
				(US\$1,000)	21,422	10,433	
				(US\$1=415Rp)			
				1)			
				2)			
				3)			
3.SECTOR Transportation/Port		3.CONTENT(S) OF MAJOR PROJECT(S) The development plan aiming the year 1985				(Description) The project was suspended. The review of the F/S was done by the World Bank in March 1988.	
4.REFERENCE NO.		Item                      Size					
5.TYPE OF STUDY		Wharf                      L : 690m D : -5.5m					
6.COUNTERPART AGENCY Directorate General of Sea Communication		Wharf                      L : 130m D : -3.0m					
7.OBJECTIVES OF STUDY M/P aiming the year 2000 F/S on the development plan aiming the year 1985		Warehouse                15,650sq.m					
		Road                        44,100sq.m					
8.DATE OF S/W		Feb.1977		Imp. Period: .1978-Dec.1984			
9.CONSULTANT(S) Overseas Coastal Area Development Institute of Japan Pacific Consultants International		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 19.70 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM		Conditions and Development Impacts: There are following conditions -Future Cargo Volume is based on the demand forecast for the year 1985 and 2000. This forecast depends on the GRDP of the area covered by Bitung port. -Main Cargos are Foodstuffs, Agricultural Products, Construction Materials, Production Materials, Vehicles and Petroleum. Since the area covered by Bitung port does not have enough population or economic power for making independent economic area, it is very important for the economic development of the area to improve domestic and foreign trade by this Bitung port Expansion Project.					
		No.of Members      7					
		Period Jul.1977-Mar.1978 (9 months)					
		Total M/M		Japan		Field	
		47.00		46.00		1.00	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
12.EXPENDITURE		Total		98,988 (¥'000)		3.PRINCIPAL SOURCE OF INFORMATION	
		Contracted		70,549		①	

和名 ビトン港拡張計画

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

# PROJECT SUMMARY (F/S)

Compiled Mar.1986  
Revised Mar.1991

ASE IDN/S 307/78

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Indonesia	1.SITE OR AREA		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1) 73,420</td> <td style="text-align: center;">30,440</td> <td></td> </tr> <tr> <td style="text-align: center;">(US\$1=415Rp)</td> <td style="text-align: center;">2) 120,160</td> <td style="text-align: center;">37,940</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td></td> <td></td> </tr> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 73,420	30,440		(US\$1=415Rp)	2) 120,160	37,940			3)			1.PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing	
	Total Cost	Local Cost	Foreign Cost																				
(US\$1,000)	1) 73,420	30,440																					
(US\$1=415Rp)	2) 120,160	37,940																					
	3)																						
2.NAME OF STUDY	Development Plan of the Port of Semarang	2.PROJECT COST		(Description)  Mar.1979 OECF L/A signed (E/S, 480 million yen) Mar.1981 OECF L/A signed (17.3 billion yen) Jun.1986 Phase I construction completed																			
3.SECTOR	Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)																					
4.REFERENCE NO.		Plan				High Projection		Low Projection															
5.TYPE OF STUDY	F/S	1. Wharf				Deep sea general cargo wharf																	
6.COUNTERPART AGENCY	Directorate General of Sea Communication	Regional harbor				Cargo volume		870,000 t															
7.OBJECTIVES OF STUDY	Expansion and improvement measures in the access channel: M/P aiming at year 2000 F/S on the development plan aiming at year 1985 Urgent improvement program aimed at year 1980	2. Length of wharf				555 m		370 m															
8.DATE OF S/W	.0	2. Length of wharfs				6		5															
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Japan Port Consultants Co., Ltd. Pacific Consultants International	2. Length of breakwater				4,550 m		4,550 m															
10.STUDY TEAM	No.of Members 8 Period Sep.1977-Aug.1978(10 months)	Imp. Period: Feb.1981-Oct.1985				4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		EIRR1) 10.50 FIRR1) 2.90 EIRR2) 12.60 FIRR2) 3.40 EIRR3) FIRR3)				Conditions and Development Impacts: There are following conditions -Future Cargo volume is based on the Future GRDP of Central Java. The annual growth rate of the GDP estimated as follows. 1976 - 1978    7.5%    1979 -    7% case 1    7.5%    same as the national growth rate case 2    5% of national growth rate    same as the national growth rate There was a congestion problem in the land transportation which carried the most of the foreign trade cargo from Central Java, and the congestion obstructed the economic development of the area. It was expected that the wharves for ocean going ships planned by this project will solve the congestion problem and improve the economic development of the area. Note: The above EIRRs and FIRRs are for 1) Low projection and 2) High projection																	
12.EXPENDITURE	Total 101,886 (¥'000) Contracted 78,204	5. TECHNICAL TRANSFER		Counterpart training Training for the methods of the port planning and the industrial development planning was carried out at the site.																			
				2.MAJOR REASONS FOR PRESENT STATUS  Significance of the impact by the Project: Improve the foreign trade, economic development and economic stability of the area.																			
				3.PRINCIPAL SOURCE OF INFORMATION ①④																			

和名 スマラン港開発計画 (フェーズI)

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

# PROJECT SUMMARY (F/S)

ASE IDN/S 308/78

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT								
1.COUNTRY	Indonesia	1.SITE OR AREA		Three provinces of North Sulawesi, South Sulawesi, and North Sumatra		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled							
2.NAME OF STUDY		2.PROJECT COST												
Hospital Facilities Improvement Project		(US\$1,000)		Total Cost	Local Cost	Foreign Cost	(Description)  The project was completed by the provision of the OECF fund for medical equipment procurement.  Aug.1979 OECF loan agreement on medical equipment procurement (3,783 million yen)							
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)												
Social Infrastructures/Architecture & Housing		The study undertook the following tasks. 1) Analysis of the present situation of medical services and proposals for improvement 2) Examination of the present medical equipment and supplies and proposals for improvement 3) Evaluation of hospital-related facilities and proposals for improvement 4) Analysis of the needs and possibilities of infrastructural development necessary to support the improvement of hospital services												
4.REFERENCE NO.		Imp. Period: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">4.FEASIBILITY AND ITS ASSUMPTIONS</td> <td style="width: 15%;">Feasibility: Yes/No</td> <td style="width: 15%;">EIRR1</td> <td style="width: 15%;">EIRR2</td> <td style="width: 15%;">EIRR3</td> <td style="width: 15%;">FIRR1</td> <td style="width: 15%;">FIRR2</td> <td style="width: 15%;">FIRR3</td> </tr> </table> Conditions and Development Impacts: The proposed project will contribute to the improvement of medical services and hospital facilities.				4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1	EIRR2	EIRR3	FIRR1	FIRR2	FIRR3
4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No					EIRR1		EIRR2	EIRR3	FIRR1	FIRR2	FIRR3		
5.TYPE OF STUDY						F/S								
6.COUNTERPART AGENCY						Ministry of Health								
7.OBJECTIVES OF STUDY		Development of 20 hospitals in three provinces												
8.DATE OF S/W		.0				2.MAJOR REASONS FOR PRESENT STATUS								
9.CONSULTANT(S)														
10.STUDY TEAM		No.of Members 8 Period Apr.1978-Oct.1978 (7 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> </table>						Total M/M	Japan	Field				
Total M/M	Japan	Field												
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY						3.PRINCIPAL SOURCE OF INFORMATION								
12.EXPENDITURE		5.TECHNICAL TRANSFER												
Total		21,874 (¥000)				①②								
Contracted														

和名 病院整備計画

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

# PROJECT SUMMARY (Basic Study)

ASE IDN/A 501/78

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Indonesia	1.SITE OR AREA	An area of 350sq.km within the jurisdiction of Pekalongan Forest Office, Central Java Province		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use
2.NAME OF STUDY	Forest Inventory for Management and Logging in Central Java	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	<input type="checkbox"/> Delayed
3.SECTOR	Forestry/Forestry & Forest Conservation		(US\$1,000)	1)	2)	<input type="checkbox"/> Discontinued
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)			(Description) The technical cooperation for mountain logging practice project in Java was started in 1983 and complete in 1985.	
5.TYPE OF STUDY	Basic Study	This project is a forest inventory works in the pine plantations within the jurisdiction of Pekalongan Forest Office, where is the training site for the technical cooperation for mountain logging practice project in Java.				
6.COUNTERPART AGENCY	PERUM PERHUTANI					
7.OBJECTIVES OF STUDY						
8.DATE OF S/W	Dec.1976					
9.CONSULTANT(S)	Japan Forest Technical Association Kokusai Kougyo Co., Ltd.	4.CONDITIONS AND DEVELOPMENT IMPACTS			2.MAJOR REASONS FOR PRESENT STATUS	
10.STUDY TEAM	No.of Members 14 Period Nov.1976-Mar.1978(16 months)	1.Products in the pine plantations will be able to supply raw materials for a papermill, which will be constructed in the future 2.Pine plantations will be increased so that pine resin products will be increased and local employment will be enlarged.				
	Total M/M      Japan      Field					
	28.00      20.00      8.00					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Aerial photography	5.TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE		1.To accept trainees out of counterparts 2.To conduct sample plot survey for forest inventory with counterparts. 3.To conduct aerial photointerpretation and transferring its results onto maps with counterparts.			①	
	Total      96,770 (¥'000)					
	Contracted      69,451					

和名 中部ジャワ州プカロンガン林業資源調査

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

## PROJECT SUMMARY (Other)

ASE IDN/S 604/78

Compiled Mar. 1990  
Revised Mar. 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1. COUNTRY	Indonesia	1. SITE OR AREA			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY Wonogiri Irrigation and River Improvement Project (follow-up)		2. PROJECT COST (US\$1,000)			(Description)	
3. SECTOR Social Infrastructures/River & Erosion Control		Total Cost    Local Cost    Foreign Cost 1) 2)				
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S) In order to handle the relocation and other related problems vis-a-vis the river channel improvement component of the Wonogiri multi-purpose dam project, this study reviewed the feasibility study and evaluated the phasing of the construction plan and recommended the optimum schedule of implementation.				
5. TYPE OF STUDY Other		4. CONDITIONS AND DEVELOPMENT IMPACTS				
6. COUNTERPART AGENCY Directorate General of Water Resources Development		5. TECHNICAL TRANSFER				
7. OBJECTIVES OF STUDY Identification of an optimum construction plan		3. PRINCIPAL SOURCE OF INFORMATION ①				
8. DATE OF S/W .0		2. MAJOR REASONS FOR PRESENT STATUS				
9. CONSULTANT(S)		10. STUDY TEAM No. of Members Period Nov. 1978-Dec. 1978 (1 months)  Total M/M          Japan          Field				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE Total                          6,794 (¥'000) Contracted				

和名 ソロ河ウオノギリ多目的ダム関連河川改修計画アフターケア

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

## PROJECT SUMMARY (M/P)

ASE IDN/S 104/79

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
<b>1.COUNTRY</b>	Indonesia	<b>1.SITE OR AREA</b>	18 major shipbuilding yards in Indonesia		<b>1.PRESENT STATUS</b>	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
<b>2.NAME OF STUDY</b>	Shipbuilding Industry Development	<b>2.PROJECT COST</b>	Total Cost	Local Cost	Foreign Cost	(Description)  Among the 18 major shipbuilding yards examined by the study, a feasibility study was conducted on the Makassar Shipyard (FY1980).
<b>3.SECTOR</b>	Transportation/Marine Transportation & Ships	(US\$1,000)	1) 474,000			
<b>4.REFERENCE NO.</b>		(US\$1=415Rp)	2)			
<b>5.TYPE OF STUDY</b>	M/P	<b>3.CONTENTES OF MAJOR PROJECT(S)</b>				
<b>6.COUNTERPART AGENCY</b>	Directorate General of Sea Communications, Ministry of Communications, and Directorate General of Basic	The study suggested to modernize four shipbuilding yards in order to meet the future demands for ship building and repair. The proposed targets are as follows. 1) Ship building: 1983 90% of the annual demand (approx. 50,000GT) 1990 100% of the annual demand (approx. 94,000GT) 2) Repair work: 1983 70% of the annual demand (approx. 1.4 million GT) 1990 100% of the annual demand (approx. 2.8 million GT)  In addition, the study proposed the establishment of a supplies center which would import materials for ship building and repair, and a training center for manpower development.				
<b>7.OBJECTIVES OF STUDY</b>	Examination of and advice on the needs of rehabilitation and new construction	<b>4.CONDITIONS AND DEVELOPMENT IMPACTS</b>				
<b>8.DATE OF S/W</b>	.0	The proposed project will induce increased production, savings of foreign exchange, creation of employment opportunities and regional development.				
<b>9.CONSULTANT(S)</b>	The Shipbuilding Research Centre of Japan				<b>2.MAJOR REASONS FOR PRESENT STATUS</b>	
<b>10.STUDY TEAM</b>	No.of Members 14 Period Sep.1977-Nov.1977 (8 months) May.1978-Dec.1978 Total M/M Japan Field 21.33 16.00 5.33					
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>					<b>3.PRINCIPAL SOURCE OF INFORMATION</b>	
<b>12.EXPENDITURE</b>	Total 68,785 (¥'000) Contracted 42,575	<b>5.technical transfer</b> On-the-job training on the data analysis and the preparation of the report			①	

和名 造船振興計画

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



# PROJECT SUMMARY (M/P)

ASE IDN/S 107/79

Compiled Mar.1986  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
<b>1.COUNTRY</b>	Indonesia	<b>1.SITE OR AREA</b>	The area centered by Lake Tempe, south Sulawesi		<b>1.PRESENT STATUS</b>						
<b>2.NAME OF STUDY</b>	Central South Sulawesi Water Resources Development Project	<b>2.PROJECT COST</b>	Total Cost	Local Cost		Foreign Cost					
<b>3.SECTOR</b>	Social Infrastructures/Water Resource Development		(US\$1,000)	1) 340,400							
<b>4.REFERENCE NO.</b>		<b>3.CONTENTES OF MAJOR PROJECT(S)</b>	2)	<b>(Description)</b>  This master plan suggested 7 developing plans, of which 3 projects were implemented as follows.  Langkemme irrigation project Mar. 1981 F/S completed (JICA) Mar. 1985 E/S completed (OECE loan 320 million yen) Nov. 1987 Construction started (OECE loan 6.95 billion yen) Jun. 1994 Construction to be completed  Bila irrigation project Jun. 1982 F/S completed (JICA) Dec. 1988 E/S completed (OECE loan 550 million yen) Feb. 1992 1st stage construction started (OECE loan 6.46 billion yen) Jan. 1993 2nd stage construction started (OECE loan 3,788 million yen) Jul. 1995 1st stage construction to be completed Mar. 1997 2nd stage construction to be completed  Sanrego irrigation project Mar. 1983 F/S completed (JICA)							
<b>5.TYPE OF STUDY</b>	M/P	The project area is centered by Lake Tempe where the Walanae, the Bila, the Boya, and the Cenranae rivers flow in and out of the lake. The catchment is 8,000sq.km in area, and main projects hereinafter has been proposed for maximum use of these water resources. - Irrigation: Area 81,000ha (9 irrigation plots) - Flood control: Extension by river improvement 117km - Fresh water fishery: prohibition of fishing for a whole year of lake Tempe, construction of hatcheries and fisheries. - Multi-purpose dam: Walimponq dam (Rockfill dam, height-82m, crest length-900m) - Hydro-electric power: Walimponq hydro-electric power station (output:8,000kw, 70GW/year) - Sabo: Sabo dam 12 plots, compacting plots-about 140. The total cost above only pertains to the irrigation development.									
<b>6.COUNTERPART AGENCY</b>	Directorate of Planning and Programming	<b>4.CONDITIONS AND DEVELOPMENT IMPACTS</b>									
<b>7.OBJECTIVES OF STUDY</b>	Irrigation Development Topographic survey	The project area has abundant water resources. However, the productivity of agricultural sector is considerably low because farmers, without facilities for irrigation, rely on rain-fall agriculture. On the other hand, damage from flooding in the rainy season is quite high every year. Furthermore, although Lake Tempe is suitable for fresh water fishing, the fish catch decreases annually due to reckless fishing. The completion of this project may solve the above problems, and local communities will be able to raise their standard of living. It is also expected that the nation will be able to promote self-sufficiency in food.									
<b>8.DATE OF S/W</b>	Oct.1976	<b>5.TECHNICAL TRANSFER</b>									
<b>9.CONSULTANT(S)</b>	Nihon Koei Co., Ltd. Mitsui Consultants Co., Ltd. System Science Consultants  Nikken Consultants., Inc.	<b>2.MAJOR REASONS FOR PRESENT STATUS</b>									
<b>10.STUDY TEAM</b>	No.of Members 36 Period Dec.1976-Jun.1978 (39 months) Aug.1978-Mar.1980 <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">258.91</td> <td style="text-align: center;">81.60</td> <td style="text-align: center;">177.31</td> </tr> </table>	Total M/M	Japan			Field	258.91	81.60	177.31	<b>3.PRINCIPAL SOURCE OF INFORMATION</b>	
Total M/M	Japan	Field									
258.91	81.60	177.31									
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>	Aerial Photography										
<b>12.EXPENDITURE</b>	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">673,876 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">643,458</td> </tr> </table>			Total	673,876 (¥'000)	Contracted	643,458				
Total	673,876 (¥'000)										
Contracted	643,458										
				①④							

和名 南スラウェシ州中部水資源総合開発計画

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

# PROJECT SUMMARY (F/S)

ASE IDN/S 309/79

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Indonesia	1.SITE OR AREA		Kalimantan, East Kalimantan Province		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Expansion Project of the Port of Balikpapan	2.PROJECT COST		Total Cost	Local Cost		
		(US\$1,000)	1)	20,888	8,686		
		(US\$1=625Rp)	2)				
			3)				
3.SECTOR	Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)		(Description)  The project was implemented by ADB financing.  Sep.1984 JICA F/S reviewed Jun.1985 D/D completed  Total project cost: US\$22.9 million			
4.REFERENCE NO.		Item	Size				
5.TYPE OF STUDY	F/S	Wharf for foreign trade	330m				
6.COUNTERPART AGENCY	Directorate General of Sea Communication	Wharf for small vessels	75m				
		Jetty	50m				
		Reclamation	905,000sq.m				
		Warehouse	6,000sq.m				
7.OBJECTIVES OF STUDY	Study on the development of deep sea port as the main development center in the east kalimantan						
8.DATE OF S/W	Dec.1978	Imp. Period:		Oct.1981-Dec.1984			
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility:	EIRR1)	13.40	FIRR1)
				Yes	EIRR2)		FIRR2)
					EIRR3)		FIRR3)
		Conditions and Development Impacts:					
		Cargo volume in the port was forecasted 10,500 thousand tons in 1985 and 16,900 thousand tons in 2000.					
10.STUDY TEAM	No.of Members 6 Period Jan.1979-Nov.1979 (10 months)			2.MAJOR REASONS FOR PRESENT STATUS			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY				3.PRINCIPAL SOURCE OF INFORMATION			
				①			
12.EXPENDITURE		5.technical transfer					
		Counterpart training					
		Total	99,579 (¥'000)				
		Contracted	86,160				

和名 バリクババン港港湾整備計画

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

# PROJECT SUMMARY (F/S)

ASE IDN/S 310/79

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
<b>1.COUNTRY</b>	Indonesia	<b>1.SITE OR AREA</b>		Central Java, Borobudur Prambanan		<b>1.PRESENT STATUS</b>	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
<b>2.NAME OF STUDY</b>	Borobudur Prambanan: National Archeological Parks	<b>2.PROJECT COST</b>		Total Cost	Local Cost			Foreign Cost
<b>3.SECTOR</b>	Tourism/General	(US\$1,000)	1)	17,266			(Description)  The project was completed by the OECF loan.  Apr.1980 OECF L/A signed (E/S, 440 million yen) May 1982 OECF L/A signed (2,805 million yen) Summer 1988 Construction completed	
<b>4.REFERENCE NO.</b>		(US\$1=627Rp.)	2)					
<b>5.TYPE OF STUDY</b>	F/S		3)					
<b>6.COUNTERPART AGENCY</b>	Tourism Directorate Transport Ministry	<b>3.CONTENTS OF MAJOR PROJECT(S)</b>		Review of existing reports and formulation of 1979-1989 detailed plan for the national archeological park centered around ruins of Borobudur Prambanan in Central Java.				
<b>7.OBJECTIVES OF STUDY</b>	Tourism Development	<b>4.FEASIBILITY AND ITS ASSUMPTIONS</b>		Feasibility:	EIRR1)	FIRR1)		
<b>8.DATE OF S/W</b>	Jul.1978	Imp. Period: .1979-.1989		No	EIRR2)	FIRR2)		
<b>9.CONSULTANT(S)</b>	Pacific Consultants International JCP Co., Ltd.	<b>Conditions and Development Impacts:</b> Repair and restoration of ruins in both sites are expected to promote domestic and foreign tourism, thereby increasing tourism revenues and inducing regional development		EIRR3)	FIRR3)			
<b>10.STUDY TEAM</b>	No. of Members 24 Period Jul.1978-Jul.1979 (13 months)			<b>5.TECHNICAL TRANSFER</b>		OJT : Counterparts were trained on land use, tourism and infrastructure development		
		Total M/M	Japan	Field	<b>2.MAJOR REASONS FOR PRESENT STATUS</b>			
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>		61.03	48.00	13.03	(1) Large favorable effects (2) Favorable political conditions (3) High priority Great cultural and educational impacts			
<b>12.EXPENDITURE</b>								<b>3.PRINCIPAL SOURCE OF INFORMATION</b>
		Total	160,852 (¥'000)		①④			
		Contracted	143,858					

和名 ボロブドール・プランバナン国立史跡公園整備計画

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

# PROJECT SUMMARY (F/S)

ASE IDN/A 302/79

Compiled Mar.1990

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																					
1.COUNTRY	Indonesia	1.SITE OR AREA		Riam Kanan Area of South Kalimantan Province (Investigated Area 60,000ha)		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing																				
2.NAME OF STUDY Riam Kanan Irrigation Project		2.PROJECT COST		Total Cost	Local Cost			Foreign Cost																			
		(US\$1,000)	1)	190,670	106,880	83,790																					
		US\$1=625Rp.		2)																							
				3)																							
3.SECTOR Agriculture/General		3.CONTENTS OF MAJOR PROJECT(S)				(Description)																					
4.REFERENCE NO.		1. Total Irrigation Area : 32,610 ha (AI Zone 1,870 ha, BI Zone: 7,400 ha, CI Zone: 3,740 ha, DI Zone: 11,520 ha, EI: 8,080 ha) 2. Diversion weir : 1 place, height 9m, length 228m, max. intake discharge 34 cu.m/sec 3. Main canal : 48.4 km 4. Main drain : 53 km 5. Main road : 122 km 6. New paddy field: 5,150 ha																									
5.TYPE OF STUDY F/S						Mar.1980 OECF L/A signed (E/S 450 million yen) 1982 Pilot farm developed by Japanese grant Jun.1984 OECF L/A signed (8,636 million yen) May 1987 Construction started Dec.1992 Construction completed  OECF Loan: - Main canals (primary 20km, secondary 50km) - Drainage canals (40km) - Tertiary canals (5,965ha)																					
6.COUNTERPART AGENCY Ministry of Public Works, Directorate General of Water Resources Development																											
7.OBJECTIVES OF STUDY																											
8.DATE OF S/W Mar.1978		Imp. Period: Jan.1980-Oct.1988																									
9.CONSULTANT(S) Nihon Koel Co., Ltd.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1 13.50 EIRR2 EIRR3	FIRR1 FIRR2 FIRR3																					
10.STUDY TEAM		Conditions and Development Impacts: Preconditions: (1) construction period: 8 years, realization of target benefit: 15 years (2) The direct benefit was evaluated as the difference of net income from the crop production between with-project and without-project conditions  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th colspan="2">with-project</th> <th colspan="2">without-project</th> </tr> <tr> <th></th> <th>Total benefit</th> <th>Net benefits</th> <th>Total benefit</th> <th>Net benefits</th> </tr> </thead> <tbody> <tr> <td>1984</td> <td style="text-align: right;">4,284</td> <td style="text-align: right;">1,600</td> <td style="text-align: right;">1,323</td> <td style="text-align: right;">892</td> </tr> <tr> <td>1994</td> <td style="text-align: right;">45,756</td> <td style="text-align: right;">27,429</td> <td style="text-align: right;">11,078</td> <td style="text-align: right;">7,897</td> </tr> </tbody> </table> Development Impacts: (1) Saving of foreign currency by a reduction of rice import (2) Increase of employment opportunity (3) Improvement of quality of agricultural products and increase of marketability (4) Improvement of living environment (5) Contribution to activation of the economy					with-project		without-project			Total benefit	Net benefits	Total benefit	Net benefits	1984	4,284	1,600	1,323	892	1994	45,756	27,429	11,078	7,897	2.MAJOR REASONS FOR PRESENT STATUS	
	with-project		without-project																								
	Total benefit	Net benefits	Total benefit	Net benefits																							
1984	4,284	1,600	1,323	892																							
1994	45,756	27,429	11,078	7,897																							
No.of Members 18 Period Jul.1978-Mar.1979(9 months)  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">73.43</td> <td style="text-align: center;">19.53</td> <td style="text-align: center;">53.90</td> </tr> </tbody> </table>		Total M/M	Japan	Field	73.43	19.53	53.90	5. TECHNICAL TRANSFER																			
Total M/M	Japan	Field																									
73.43	19.53	53.90																									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY						3.PRINCIPAL SOURCE OF INFORMATION																					
12.EXPENDITURE						①④																					
Total		248,480 (¥'000)																									
Contracted		151,908																									

和名 リアムカナンかんがい計画

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

## PROJECT SUMMARY (Other)

ASE IDN/S 605/79

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS											
1.COUNTRY	Indonesia	1.SITE OR AREA	Road between Jakarta and Tangerang		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued										
2.NAME OF STUDY Jakarta-Merak Highway Project: Jakarta/Tangerang Freeway Financial Study(follow-up)		2.PROJECT COST (US\$1,000)			(Description)  The road construction was completed by the OECF loan which was approved in Nov. 1977 (12,514 million yen) and is now managed as a toll road.											
3.SECTOR Transportation/Road		<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%; text-align: center;">Total Cost</td> <td style="width: 17%; text-align: center;">Local Cost</td> <td style="width: 17%; text-align: center;">Foreign Cost</td> </tr> <tr> <td></td> <td style="text-align: center;">1)</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td></td> <td></td> </tr> </table>						Total Cost	Local Cost	Foreign Cost		1)				2)
	Total Cost	Local Cost	Foreign Cost													
	1)															
	2)															
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S) The Government of Indonesia promulgated the toll road Act in February 1978, and planned to apply the law to the operation of the Jakarta-Tangeran section (27km) of the Jakarta - Merak Highway (120km). The follow-up study reevaluated the project by financial analysis and suggested specific policy guidelines.														
5.TYPE OF STUDY Other		4.CONDITIONS AND DEVELOPMENT IMPACTS			2.MAJOR REASONS FOR PRESENT STATUS											
6.COUNTERPART AGENCY Directorate General of Highways, Ministry of Public Works.																
7.OBJECTIVES OF STUDY Policy recommendations on the operation of toll road																
8.DATE OF S/W .0																
9.CONSULTANT(S) Pacific Consultants International																
10.STUDY TEAM No.of Members 4 Period Mar.1979-Jun.1979(2.5 months)  Total M/M          Japan          Field																
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					3.PRINCIPAL SOURCE OF INFORMATION											
12.EXPENDITURE Total 13,679 (¥000) Contracted		5.TECHNICAL TRANSFER			①④											

和名 ジャカルターメラク間道路アフターケア

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

## PROJECT SUMMARY (M/P)

ASE IDN/S 106/80

Compiled Mar. 1986

Revised Mar. 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS								
1. COUNTRY	Indonesia	1. SITE OR AREA	Southern coastal area of East Java (8,310 sq.km, 17% of the land area of East Java)			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2. NAME OF STUDY	Southern Coast Development Plan, East Java	2. PROJECT COST											
3. SECTOR	Development Plan/Integrated Regional Development Plan	(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost	(Description)  The project packages proposed by the study is a integrated collection of small projects, and have not received foreign financing. However, they have been utilized to formulate development programs for the provincial and kabupaten levels.						
4. REFERENCE NO.		US\$1=Rp630	2)										
5. TYPE OF STUDY	M/P	3. CONTENTS OF MAJOR PROJECT(S)											
6. COUNTERPART AGENCY	Directorate of Urban Planning and Housing, Ministry of Public Works	The study proposed 12 project packages (mostly by area) for the development of the southern coastal area of East Java. 6 project packages are suggested for early implementation by utilizing either domestic fund or foreign technical assistance. The packages include the construction of dams for irrigation and sabo check dams, rural water supply, rural roads, breeding and raising of draft animals, modernization of fishing boats and gear, etc. The study recommended feasibility studies for the following projects. - Construction of the Priqi commercial port; rehabilitation of the Priqi fishing port, Pacitan - Slabung provincial road improvement; Priqi communal telephone project; Priqi electrification project; - Construction of two dams at Grindulu and Tinator; and West Pacitan critical area rehabilitation (upstream Grindulu River)											
7. OBJECTIVES OF STUDY	Identification of development strategy and projects, and evaluation of economic and social impacts	4. CONDITIONS AND DEVELOPMENT IMPACTS											
8. DATE OF S/W	.0	12 project packages were suggested to raise the income level in the targeted area.											
9. CONSULTANT(S)	International Development Center of Japan												
10. STUDY TEAM	No. of Members 15 Period Nov. 1978-Feb. 1980 (16 months)												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">47.00</td> <td style="text-align: center;">22.40</td> <td style="text-align: center;">24.60</td> </tr> </table>		Total M/M	Japan	Field	47.00	22.40		24.60					
Total M/M	Japan	Field											
47.00	22.40	24.60											
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY													
12. EXPENDITURE		5. TECHNICAL TRANSFER											
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">113,538 (¥000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">102,302</td> </tr> </table>		Total	113,538 (¥000)	Contracted	102,302	1) OJT through joint undertaking of the study 2) Participation of the counterparts in the JICA training program							
Total	113,538 (¥000)												
Contracted	102,302												
					2. MAJOR REASONS FOR PRESENT STATUS								
					3. PRINCIPAL SOURCE OF INFORMATION								
					①								

和名 東部ジャワ州南部沿岸地域開発計画

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

## PROJECT SUMMARY (M/P)

ASE IDN/S 105/80

Compiled Mar. 1986  
Revised Mar. 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS			
1. COUNTRY	Indonesia	1. SITE OR AREA	Major ports in Indonesia, and the port of Surabaya for the case study		1. PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
2. NAME OF STUDY	Removal of Sunken Vessels	2. PROJECT COST			Total Cost    Local Cost    Foreign Cost		(Description)  The Government of Indonesia has been removing sunken ships in small scale. During ten years of the first and the second five-year national development plans, approximately 24,000 tons of sunken ships were reported to have been removed. The Government planned to remove approximately 36,000 tons during the third development plan (1979 - 1983), and the recommendations of the study was initially included in the blue book. Subsequently, the project was postponed due to financial constraints.	
3. SECTOR	Transportation/Marine Transportation & Ships	(US\$1,000)	1) 2)					
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)						
5. TYPE OF STUDY	M/P	In order to assist in the removal of sunken ships in the major harbours during the World War II, the study made a case study of the port of Surabaya and formulated a master plan concerning the appropriate techniques, necessary salvage equipment and boats, and training requirements.						
6. COUNTERPART AGENCY	Directorate General of Sea Communications, Ministry of Communications	4. CONDITIONS AND DEVELOPMENT IMPACTS						
7. OBJECTIVES OF STUDY	Transfer of techniques for the removal of sunken ships							
8. DATE OF S/W	Mar. 1979	The removal of sunken ships in major harbours will ensure the safety of port operations and raise the port capacity, and thereby contribute to the economic development of the country. The study recommended the following measures: 1) Formulation of medium- and long-term implementation plan 2) Preparation of manuals for salvage operations under difficult conditions 3) Provision of necessary salvage equipment 4) Preparation of necessary bylaws and regulations 5) Purchase of salvage boats and support boats						
9. CONSULTANT(S)	The Shipbuilding Research Centre of Japan							
10. STUDY TEAM	No. of Members    24 Period    Oct. 1979-Feb. 1980 (4 months)	5. TECHNICAL TRANSFER			2. MAJOR REASONS FOR PRESENT STATUS			
	<table style="margin: auto;"> <tr> <td style="padding: 0 10px;">Total M/M</td> <td style="padding: 0 10px;">Japan</td> <td style="padding: 0 10px;">Field</td> </tr> <tr> <td></td> <td style="text-align: center;">6.93</td> <td style="text-align: center;">13.30</td> </tr> </table>				Total M/M	Japan		Field
Total M/M	Japan	Field						
	6.93	13.30						
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		OJT and instructions on the recommended techniques			3. PRINCIPAL SOURCE OF INFORMATION			
12. EXPENDITURE						①		
	<table style="margin: auto;"> <tr> <td style="padding: 0 10px;">Total</td> <td style="padding: 0 10px;">74,983 (¥'000)</td> </tr> <tr> <td style="padding: 0 10px;">Contracted</td> <td style="padding: 0 10px;">67,056</td> </tr> </table>	Total	74,983 (¥'000)	Contracted	67,056			
Total	74,983 (¥'000)							
Contracted	67,056							

和名 沈船除去計画

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

## PROJECT SUMMARY (M/P)

ASE IDN/S 109/80

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS											
1.COUNTRY	Indonesia	1.SITE OR AREA	Medan suburban area		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued										
2.NAME OF STUDY	Medan Area Transportation	2.PROJECT COST	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">Total Cost</td> <td style="text-align: center;">Local Cost</td> <td style="text-align: center;">Foreign Cost</td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td style="text-align: center;">8,484</td> <td></td> <td></td> </tr> </table>		(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost		2)	8,484			(Description)  The recommendation of this report was accepted into trunk road improvement plan. Some part of the project is under construction by own funds and by the ADB loan on urban development (this loan does not cover trunk roads).	
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost												
	2)	8,484														
3.SECTOR	Transportation/Urban Transportation	3.CONTENTES OF MAJOR PROJECT(S)														
4.REFERENCE NO.		The major projects of the short term development plan for 5 years are : - Rehabilitation and Construction of Roads: Total length, 12,630m, Improvement of crossing, 2 sites. - Establishment of City Bus Route (loop line) : Improvement of bus terminal, 2 sites. - Traffic Control Facilities : One way traffic, 26 sites. Signal system, 15 sites - Facilities improvement with reopening of passenger transport between Brawan - Medan. - Establishment of Eastside Entrance and Rehabilitation of pedestrian bridge of Medan Station.														
5.TYPE OF STUDY	M/P	4.CONDITIONS AND DEVELOPMENT IMPACTS														
6.COUNTERPART AGENCY		Development Impacts : Improvement of urban and regional infrastructure by improvement of traffic network (roads and railways, etc.).														
7.OBJECTIVES OF STUDY	Traffic plan	10.STUDY TEAM														
8.DATE OF S/W	Nov.1978	No.of Members 16 Period Sep.1979-Oct.1980(0 months)														
9.CONSULTANT(S)	Pacific Consultants International Japan Transportaion Consultants, Inc.	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">76.50</td> <td style="text-align: center;">53.00</td> <td style="text-align: center;">23.50</td> </tr> </table>			Total M/M	Japan	Field	76.50	53.00	23.50						
Total M/M	Japan	Field														
76.50	53.00	23.50														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER														
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION														
	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">185,134 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">171,501</td> </tr> </table>	Total	185,134 (¥'000)	Contracted	171,501	(1) On-the-job training (2) Employed local consultants for traffic survey and hearing, etc										
Total	185,134 (¥'000)															
Contracted	171,501															
					2.MAJOR REASONS FOR PRESENT STATUS											
					①											

和名 メダン地域都市交通計画

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



## PROJECT SUMMARY (M/P)

ASE IDN/S 108/80

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS		
1.COUNTRY	Indonesia	1.SITE OR AREA	Southern slope of Mt. Merapi (total area 1,300 sq.km, project area 850 sq.km) in Central Java		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Land Erosion and Volcanic Debris Control in the Area of Mt.Merapi	2.PROJECT COST			Total Cost    Local Cost    Foreign Cost (US\$1,000)            1)            66,430 (US\$1=220Yen=630Rp)    2)	(Description)  The Volcanic Sabo Technology Center was established by JICA as proposed by the study and four Japanese experts have been assigned to the center.  After the volcanic eruption in June 1984, JICA sent the Japanese expert team to review the project and propose urgent measures, for which an OECF loan was subsequently approved.  Dec.1985    OECF loan agreement signed (4,672 million yen) 1986        E/S completed Oct.1989    Construction started Jun.1992    Construction completed
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTS OF MAJOR PROJECT(S)	1) Relocation plan (50,400 persons) 2) Afforestation plan (6,010 ha) 3) Sabo facilities (58 sabo dams; 79 bed consolidation; 116,070m embankment and revetment; 16,490m training levee; 12,810m water control; and 4 bridges 4) Warning and evacuation (1 telemeter monitoring center; 4 telemeter monitoring stations; 10 to 15 information centers) 5) Related facilities (26.7km main irrigation canals; 26.7km main roads; 12 road bridges; 11 micro hydro-power plants) 6) River improvement (control of meandering, channel improvement)			
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS				
5.TYPE OF STUDY	M/P	The proposed project will control land erosion by rivers and volcanic debris on the southern slope of Mt.Merapi located to the north of Yogyakarta. It will provide stability to the life and productive activities of local inhabitants, and improve basic infrastructure for livelihood by sabo dams which will provide irrigation and hydroelectric power.				
6.COUNTERPART AGENCY	Directorate General of Water Resource Development, Ministry of Public Works					
7.OBJECTIVES OF STUDY	Sabo planning in the volcanic area					
8.DATE OF S/W	Jun.1976					
9.CONSULTANT(S)	Sabo Technical Center					
10.STUDY TEAM	No.of Members    25 Period    Jul.1976-Aug.1979(37 months)					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					2.MAJOR REASONS FOR PRESENT STATUS	
					3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE	Total                    405,534 (¥'000) Contracted            307,198		5.technical transfer	①④		
		1) OJT; 2) Participation of the counterparts in the JICA training program;				

和名 メラピ火山砂防基本計画

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

# PROJECT SUMMARY (M/P)

ASE IDN/A 101/80

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS											
1.COUNTRY	Indonesia	1.SITE OR AREA	An Area of 4,000 sq.km in Upper Musi Watershed, South Sumatra Province		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued										
2.NAME OF STUDY Watershed Management Plan in Upper Musi Watershed South Sumatra		2.PROJECT COST (US\$1,000)			(Description) Based on the proposed plan, the authorities concerned has implemented a re-afforestation Project by self financing. "South Sumatra Afforestation project" was implemented from 1979 to 1987 as technical cooperation project by JICA, and a feasibility study on "Industrial Plantation Forest Development" was implemented by JICA from 1988 to 1989.											
3.SECTOR Forestry/Forestry & Forest Conservation		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%; text-align: center;">Total Cost</td> <td style="width: 17%; text-align: center;">Local Cost</td> <td style="width: 17%; text-align: center;">Foreign Cost</td> </tr> <tr> <td></td> <td style="text-align: center;">1)</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td></td> <td></td> </tr> </table>						Total Cost	Local Cost	Foreign Cost		1)				2)
	Total Cost	Local Cost	Foreign Cost													
	1)															
	2)															
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S) The main components of the plan were proposed as follows: 1. Conduct land use zonings in order to secure the forest area 2. Select production forests and exploit the forest resources in forest area 3. Improve preventive functions of forest area against floods and erosions 4. Confirm forest reserves and improve them 5. Afforest the critical areas immediately in order to prevent erosions 6. Improve the agricultural infrastructure														
5.TYPE OF STUDY M/P		4.CONDITIONS AND DEVELOPMENT IMPACTS The subject area is located in the western part of the South Sumatra province, in which the Sumatra Highway is stretched. Therefore this area has developed so that deforestation and erosion have taken place in Upper Musi Watershed. This Watershed management plan will enhance the protection of the subject area as well as Lower Musi Watershed.														
6.COUNTERPART AGENCY The Directorate General of Forestry of The Republic of Indonesia		7.OBJECTIVES OF STUDY			2.MAJOR REASONS FOR PRESENT STATUS The counterpart agency requested a technical expert to help to implement the watershed management plan.											
8.DATE OF S/W Sep.1977																
9.CONSULTANT(S) Japan Forest Technical Association Kokusai Kougyo Co., Ltd.		10.STUDY TEAM No.of Members 22 Period Nov.1977-Mar.1980(30 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">Total M/M</td> <td style="width: 33%; text-align: center;">Japan</td> <td style="width: 34%; text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">109.00</td> <td style="text-align: center;">64.00</td> <td style="text-align: center;">45.00</td> </tr> </table>			Total M/M	Japan	Field	109.00	64.00	45.00	3.PRINCIPAL SOURCE OF INFORMATION ①					
Total M/M	Japan				Field											
109.00	64.00	45.00														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Aerial Photography Mapping																
12.EXPENDITURE		5.technical transfer														
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%; text-align: center;">Total</td> <td style="width: 34%; text-align: center;">347,517 (¥'000)</td> </tr> <tr> <td></td> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">341,716</td> </tr> </table>			Total	347,517 (¥'000)				Contracted	341,716	1.To accept trainees out of counterparts 2.To conduct field works with counterparts 3.To conduct aerial-photo interpretation and transferring of its results onto maps with counterparts under the guidance of the member of study team						
	Total	347,517 (¥'000)														
	Contracted	341,716														

和名 南スマトラ州ムシ河上流流域管理計画

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

# PROJECT SUMMARY (F/S)

ASE IDN/S 311/80

Compiled Mar.1986  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Indonesia	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Small and Medium Sized Town Water Supply Projects in Sulawesi	South,Central and South-East of Sulawesi Province/Sulawesi Island					
3.SECTOR	Public Utilities/Water Supply	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1) 5,134	2,268	2,866	(Description)  The project was implemented by the OECF loan.  June 1981 OECF loan agreement (559 million yen) for the town water supply projects in Donggala, Enrekang, Luwuk and Baubau.	
5.TYPE OF STUDY	F/S	(US\$1=629Rp)	2)	3)			
6.COUNTERPART AGENCY	Dept.of Housing,Building,Planning & Urban Development,Ministry of Public Works, Indonesia	3.CONTENTS OF MAJOR PROJECT(S)					
7.OBJECTIVES OF STUDY	Improvement of living and sanitary condition with implementation of water supply system	Water supply facilities and transmission/distribution pipelines for the following cities(the numbers for transmission/distribution are diameter x length): 1. Donggala City capacity of system: 20 l/sec. transmission: 150mm x 200m, distribution: 200mm x 1,400m, 150mm x 2,400m, 100mm x 550m, 75mm x 1,250m 2. Yentena City capacity of system: 20 l/sec. transmission: 150mm x 2,150m, distribution: 150mm x 3,400m, 100mm x 3,200m, 75mm x 4,750m, 50mm x 600m 3. Luwuk City capacity of system: 40 l/sec. transmission: 300mm x 100m, distribution: 300mm x 300m, 200mm x 3,200m, 150mm x 1,800m, 100mm x 1,200m, 75mm x 750m 4. Baubau City capacity of system: 60 l/sec. transmission: 250mm x 3,000m, 150mm x 4,400m, distribution: 300mm x 1,600m, 250mm x 1,300m, 200mm x 1,350m, 150mm x 4,150m, 75mm x 6,350m 5. Enrekang City capacity of system: 20 l/sec. transmission: 100mm x 500m, 100mm x 400m, 200mm x 5,000m, distribution: 100mm x 2,500m, 200mm x 700m, 150mm x 2,250m, 100mm x 1,250m, 75mm x 1,100m Note: Respective costs for the cities (in US\$1,000) are Donggala: 968, Tentena: 785, Luwuk: 701, Baubau: 1,684 and Enrekang: 996.					
8.DATE OF S/W	Mar.1980	Imp. Period: Nov.1982-Jul.1987					
9.CONSULTANT(S)	Nihon Suido Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)	2.MAJOR REASONS FOR PRESENT STATUS  (1) Effectiveness : effective in development of local industries and improvement of sanitation condition  (2) Priority : developed along with Indonesian Government plan	
10.STUDY TEAM	No.of Members 6 Period Mar.1980-Sep.1980(7 months)  Total M/M                  Japan                  Field	Conditions and Development Impacts: The Feasibility Study with the target year of 1985 was based on the review of a F/S conducted by local consultants data collection /review,population projection,future water demand (water consumption surveys were conducted as necessary base),water supply facility planning, operation/maintenance study,institution /financial study. Development impacts are: decrease in the work load for water conveyance at home,development of local industry,and improvement of sanitary condition in proposed cities which have been in very poor sanitary conditions.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer					
12.EXPENDITURE	Total 74,192 (¥000) Contracted 59,043	Carried out a training program in Japan for 3 counterpart staff in water supply planning,feasibility study,master plan and other related technical field.				3.PRINCIPAL SOURCE OF INFORMATION ①②	

和名 地方小都市上水道整備計画

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

# PROJECT SUMMARY (F/S)

ASE IDN/S 312/80

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT				
1.COUNTRY	Indonesia	1.SITE OR AREA		Makassar Shipyard in Ujung Pandang, Sulawesi		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled			
2.NAME OF STUDY Reinforcement and Expansion Plan of P.T.IKI Makassar Shipyard at Ujung Pandang		2.PROJECT COST		Total Cost	Local Cost			Foreign Cost		
3.SECTOR Transportation/Marine Transportation & Ships				1) 62,399	15,093	(Description)  March 1985      OECF E/S loan agreement (535 millio yen) May 1989        D/D completed  The project was changed to construct and repair ships up to 3,000DWT. However, because of the policy change in the Ministry of Industry, the application for OECF finance was withdrawn.				
4.REFERENCE NO.				2) (US\$1=203 yen)						
5.TYPE OF STUDY		F/S		3)						
6.COUNTERPART AGENCY Directorate General of Basic Metal and Machinery Industry		3.CONTENTS OF MAJOR PROJECT(S)								
7.OBJECTIVES OF STUDY Examination of conditions for improving the Makassar Shipyard and geological survey				- New shipbuilding facilities 135m x 20m (for 5,000DWT ships) - Ship repairing facilities (a graving dock) 140m x 18m x d. 7m (for 7,000DWT ships)						
8.DATE OF S/W		Mar.1980		Imp. Period:						
9.CONSULTANT(S) The Shipbuilding Research Centre of Japan		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 17.58 EIRR2) EIRR3)			FIRR1) 13.39 FIRR2) FIRR3)		
10.STUDY TEAM				Conditions and Development Impacts: Assumptions: (1) Project life of 20 years; (2) annual inflation of 10%; (3) initial investment of 12.70 billion yen; (4) loaned capital (8% annual interest) 70% and own capital 30%; (5) total benefits 34.76 billion yen and total costs 28.37 billion yen Development impacts: (1) Increase of national income (10.2 billion yen per year); (2) growth of related industries (increase of gross sales 1 billion yen per year); (3) savings of foreign exchange (costs of ship purchases and repair works done overseas 3.5 billion yen per year); (4) increase of employment (700 jobs in shipbuilding and 2800 jobs in related industries and services); (5) indirect development effects in the surrounding areas Notes:1984 constant price; and annual figures pertain to the period from the 11th to 20th years				2.MAJOR REASONS FOR PRESENT STATUS Change of policy		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY				5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION		
12.EXPENDITURE				OJT during the joint preparation of the report				①		
		Total	98,271 (¥000)							
		Contracted	90,294							

和名 マカッサル造船所整備計画

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

## PROJECT SUMMARY (F/S)

ASE IDN/S 313/80

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Indonesia	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing <input type="checkbox"/>
2.NAME OF STUDY	Madiun River Urgent Improvement Project	Madiun City (Middle Java)					
3.SECTOR	Social Infrastructures/River & Erosion Control	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1) 29,890	16,555	13,335	(Description)  Sep.1981 OECF L/A signed (E/S on rehabilitation, 805 million yen) Jan.1985 D/D completed Feb.1985 OECF L/A signed (6.4 billion yen) for 1st stage construction (emergency flood control) Local cost: Rp.26.2 billion Feb.1988 Construction started Nov.1993 Construction to be completed  Note: After the completion of D/D, additional revetment became necessary owing to the erosion. Because of the Rupiah devaluation, the loan balance was used to implement the additional revetment downstream.	
5.TYPE OF STUDY	F/S	(US\$1=240Yen)	2)				
6.COUNTERPART AGENCY	MPW Directorate General Water Resources	3)	3.CONTENTS OF MAJOR PROJECT(S)				
7.OBJECTIVES OF STUDY	To formulate an optimum project plan for the urgent flood control of the Madiun city and its surrounding area and to identify the effects of the improvement to the downstream areas.	The principle work quantities required to the plan with the highest EIRR are presented below: Embankment of dykes            1,308,000 cu.m Excavation of shortcut        525,000 cu.m Wet masonry                    44,000 sq.m Construction of bridge        3 sets Modification of bridge        2 sets Construction of gate structure 4 sets Treatment of spoil bank      210,000 sq.m Land to be purchased        88 ha Land to be hired              93 ha House to be removed         454 pcs.					
8.DATE OF S/W	Feb.1980	Imp. Period: Jun.1982-May.1985					
9.CONSULTANT(S)	Nihon Koel Co., Ltd. CTI Engineering Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 11.50 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10.STUDY TEAM	No.of Members 8 Period Mar.1980-Dec.1980 (9 months)	Conditions and Development Impacts: The project was studied under the following conditions: (1) Flood control in the upstream reach (Penorogo City) is executed mainly at Bendo and Badoqan Dams. (2) Flood control in the downstream reach is executed subsequently to the Project. Flood discharge of 1,200cu.m/s (17 years return period) is controlled in the Madiun City and its suburbs. Annual benefit was estimated at 2.8 million US\$					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					
12.EXPENDITURE	Total 91,450 (¥'000) Contracted 86,668	(1) OJT : (2) Training in Japan :					
		2.MAJOR REASONS FOR PRESENT STATUS					
		3.PRINCIPAL SOURCE OF INFORMATION					
		①④					

和名 マディウン河緊急治水計画

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

## PROJECT SUMMARY (Basic Study)

ASE IDN/S 501/80

Compiled Mar.1990

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS																
1.COUNTRY	Indonesia	1.SITE OR AREA	17 kabupatens in 7 provinces of Riau, Lampung, South Sumatra, North Sulawesi, South Sulawesi, Southeast Sulawesi and East Nusatenggara		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued															
2.NAME OF STUDY	Local Roads Support Works in Seven Provinces	2.PROJECT COST			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td>1)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)					2)			
		Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	1)																				
	2)																				
3.SECTOR	Transportation/Road	3.CONTENTES OF MAJOR PROJECT(S)	In order to prepare basic data necessary for the appraisal by the OECF, the study analyzed the information (local roads, bridges and inventories) collected by the survey of the Government of Indonesia and undertook a supplementary survey.		2.MAJOR REASONS FOR PRESENT STATUS																
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS					3.PRINCIPAL SOURCE OF INFORMATION  ①④														
5.TYPE OF STUDY	Basic Study	5. TECHNICAL TRANSFER	12.EXPENDITURE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td>Total</td> <td>66,138</td> <td>(¥'000)</td> <td></td> <td></td> </tr> <tr> <td>Contracted</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>									Total	66,138	(¥'000)			Contracted				
Total	66,138	(¥'000)																			
Contracted																					
6.COUNTERPART AGENCY	Directorate General of Highways, Ministry of Public Works		10.STUDY TEAM <table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4">No.of Members</td> </tr> <tr> <td colspan="4">Period Feb.1980-Jul.1980 (5 months)</td> </tr> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> <td></td> </tr> </table>		No.of Members				Period Feb.1980-Jul.1980 (5 months)								Total M/M	Japan	Field		
No.of Members																					
Period Feb.1980-Jul.1980 (5 months)																					
Total M/M	Japan	Field																			
7.OBJECTIVES OF STUDY	Development of information base on local roads		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																		
8.DATE OF S/W	.0																				
9.CONSULTANT(S)	International Engineering Consultants Association		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																		

和名 地方道整備計画

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

# PROJECT SUMMARY (M/P+F/S)

ASE IDN/S 203A/81

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Indonesia	1.SITE OR AREA			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Development Project of the Port of Sorong	Irian, Irianjaya Province				
3.SECTOR	Transportation/Port	2.PROJECT COST	Total Cost	Local Cost	(Description) A feasibility study was subsequently undertaken.	
4.REFERENCE NO.		(US\$1,000)	1) 11,059	4,586		
5.TYPE OF STUDY	M/P+ (F/S)	(US\$1=625Rp)	2)			
6.COUNTERPART AGENCY	Directorate General of Sea Communication	3.CONTENTS OF MAJOR PROJECT(S)				
7.OBJECTIVES OF STUDY	M/P aiming the year 2000 F/S on the development of the port and harbour aiming the year 1985	The development and expansion of Sorong Port located at the western end of West Irian. Major projects in the long-term development plan through the year 2000 are: West port area - Construction of new one berth - Expansion of the existing concrete pier - Remodelling of wooden jetty East port area - Construction of new 6 parallel wharves  Major projects in the medium-term development plan are: - Construction of one large wharf adjoining the existing concrete pier - Building of one warehouse - Purchasing of one tugboat and two forklifts				
8.DATE OF S/W	Mar.1980	4.CONDITIONS AND DEVELOPMENT IMPACTS			2.MAJOR REASONS FOR PRESENT STATUS	
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja	In Maluku and Irianjaya province in Indonesia, transportation of commodities for daily life is greatly dependent on the sea transportation. At present, there is only Ambon port in these two provinces as the center for the domestic port, and the area covered by this port is too wide. Therefore, one more port will be added as the center for the domestic port by realizing this project, which will meet future increase in cargo volume of domestic and foreign trade, and smooth distribution of commodities.				
10.STUDY TEAM	No.of Members 7 Period May.1980-May.1981(12 months)					
	Total M/M	Japan	Field			
	54.58	31.50	23.08			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE		(1) Counterpart training Training for the methods of F/S carried out for 3 trainees. (2) Report Writing			①	
	Total	121,228 (¥'000)				
	Contracted	122,811				

和名 ソロン港整備計画

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

## PROJECT SUMMARY (M/P+F/S)

ASE IDN/S 203B/81

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Indonesia	1.SITE OR AREA		Irian, Irianjaya Prvince		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY	Development Project of the Port of Sorong	2.PROJECT COST		Total Cost	Local Cost			Foreign Cost
3.SECTOR	Transportation/Port			1) 11,059	4,586	(Description) After the completion of F/S, the project was suspended. The F/S was reviewed in 1985 with Dutch assistance.		
4.REFERENCE NO.				2)				
5.TYPE OF STUDY	(M/P)+F/S			3)				
6.COUNTERPART AGENCY	Directorate General of Sea Communication	3.CONTENTS OF MAJOR PROJECT(S)						
7.OBJECTIVES OF STUDY	M/P aiming the year 2000 F/S on the development of the port and harbour aiming the year 1985	Item(Middle-term Development Plan)		Size				
8.DATE OF S/W	Mar.1980	Imp. Period: Feb.1982-Dec.1984						
9.CONULTANT(S)	Overseas Coastal Area Development Institute of Ja	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 18.60			FIRR1) 3.20
10.STUDY TEAM	No. of Members 7 Period May.1980-May.1981(12 months)	Conditions and Development Impacts: There are following conditions: - Increase in GRDP Irianjaya Province    Maluku Province 1978 - 1985    5.1%    11.2% 1978 - 2000    5.0%    6.7% - population growth rate of Sorong area is 2.5% between 1978 and 2000 - The 41% total investment cost is offered under the national development fund of Indonesia. The following impacts are considered as development impacts. In Maluku and Irianjaya province in Indonesia, transportation of commodities for daily life is greatly dependent on the sea transportation. At present, there is only Ambon port in these two provinces as the center for the domestic port, and the area covered by this port is too wide. Therefore, one more port is added as a center for the domestic port by realizing this project which will the future increase in cargo volume of domestic and foreign trade, and smooth distribution of commodities.						
	Total M/M      Japan      Field							
	54.58      31.50      23.08							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS (1) Local reasons : Economical conditions in Indonesia grows worse.		
12.EXPENDITURE	Total 121,228 (¥'000) Contracted 122,811	(1) Counterpart training : Training for the methods of F/S was carried out for 3 trainees, (2) Report Writing : Draft, final report, etc were made together with OCIDI members in Japan.						3.PRINCIPAL SOURCE OF INFORMATION ①

和名 ソロン港整備計画

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



## PROJECT SUMMARY (M/P+F/S)

ASE IDN/S 202A/81

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS														
1.COUNTRY	Indonesia	1.SITE OR AREA	Cengkareng area of Jakarta		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued													
2.NAME OF STUDY	Low Cost Housing Project in Cengkareng	2.PROJECT COST					<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">67,063</td> <td style="text-align: center;">67,063</td> <td></td> </tr> <tr> <td style="text-align: center;">(US\$1=613Rp.)</td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)	67,063	67,063		(US\$1=613Rp.)
		Total Cost	Local Cost	Foreign Cost															
(US\$1,000)	1)	67,063	67,063																
(US\$1=613Rp.)	2)																		
3.SECTOR	Social Infrastructures/Architecture & Housing	3.CONTENTS OF MAJOR PROJECT(S)	(Description) Followed by the feasibility study.																
4.REFERENCE NO.		The study proposed the construction of medium-rise apartments and two-story flats for lower-income families and maisonnet-type detached houses and terrace houses for higher-income families. The project will build 7,500 housing units for 45,000 persons in the area of 110 ha. The study suggested the integrated development of 370 ha for the long term.																	
5.TYPE OF STUDY	M/P+ (F/S)																		
6.COUNTERPART AGENCY	National Urban Development Corporation																		
7.OBJECTIVES OF STUDY	Development of residential land development and medium-rise housing in the Cengkareng area																		
8.DATE OF S/W	Feb.1979	4.CONDITIONS AND DEVELOPMENT IMPACTS	Expected development impacts are savings of household consumption among the residents, increased income-earning opportunities, and better access to public facilities (hospitals, schools, mosques, etc.). The project will create employment during and after the construction and contribute to the productivity improvement of the construction materials industry and the stable supply of labor.																
9.CONSULTANT(S)	Nihon Sekkei, Inc.																		
10.STUDY TEAM	No.of Members 14 Period Oct.1979-Feb.1981(17 months)																		
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td style="text-align: center;">78.83</td> <td style="text-align: center;">56.29</td> <td style="text-align: center;">22.54</td> </tr> </table>	Total M/M	Japan	Field	78.83	56.29	22.54	2.MAJOR REASONS FOR PRESENT STATUS	3.PRINCIPAL SOURCE OF INFORMATION ①										
Total M/M	Japan	Field																	
78.83	56.29	22.54																	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																			
12.EXPENDITURE		5.TECHNICAL TRANSFER	1) OJT on survey methods 2) Participation of 5 counterparts in the JICA training program.																
Total	187,718 (¥'000)																		
Contracted	178,461																		

和名 ローコスト住宅開発計画

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

## PROJECT SUMMARY (M/P+F/S)

ASE IDN/S 202B/81

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	Indonesia	1.SITE OR AREA		Cengkareng area of Jakarta  2.PROJECT COST (US\$1,000)		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing	<input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled					
2.NAME OF STUDY Low Cost Housing Project in Cengkareng		3.CONTENTS OF MAJOR PROJECT(S)					(Description) Suspended after the completion of F/S, owing to the difficulty of securing soft loans.  Note: It is necessary to consider economic background of the financial situation of the Indonesian government and other factors.						
3.SECTOR Social Infrastructures/Architecture & Housing		- medium-rise apartments (five-story) 880 units - two-story apartment flats 4,400 units - terrace houses (one-story) 1,500 units - detached houses 770 units - related infrastructure development		Total Cost 67,063 Local Cost 67,063 Foreign Cost									
4.REFERENCE NO.						4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes EIRR1 11.46 FIRR1 EIRR2 FIRR2 EIRR3 FIRR3					
5.TYPE OF STUDY (M/P)+F/S		Conditions and Development Impacts: Assumptions: - Development of a housing complex which is more or less self-sufficient in "living, recreating, and working". - Loan repayments over a period for housing units and lump-sum payments for housing lots (empty lots and commercial lots) Development impacts: - savings of household consumption among the residents - increased income-earning opportunities - better access to public facilities (hospitals, schools, mosques) - employment creation during and after the construction - contribution to the productivity improvement of the construction materials industry		2.MAJOR REASONS FOR PRESENT STATUS  The difficulty of securing low-interest loans. The governments of the developed countries and international lending organizations usually do not assign high priority to housing development.									
6.COUNTERPART AGENCY						8.DATE OF S/W Feb.1979		Imp. Period: Feb.1982-Mar.1984					
7.OBJECTIVES OF STUDY		9.CONSULTANT(S) Nihon Sekkei, Inc.		10.STUDY TEAM  No.of Members 14 Period Oct.1979-Feb.1981(17 months)									
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Total M/M</td> <td style="width: 30%;">Japan</td> <td style="width: 30%;">Field</td> </tr> <tr> <td style="text-align: center;">78.83</td> <td style="text-align: center;">56.29</td> <td style="text-align: center;">22.54</td> </tr> </table>		Total M/M	Japan			Field	78.83	56.29	22.54	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		3.PRINCIPAL SOURCE OF INFORMATION  ①	
		Total M/M	Japan	Field									
78.83	56.29	22.54											
12.EXPENDITURE		5.technical transfer											
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Total</td> <td style="width: 30%;">187,718 (¥'000)</td> <td colspan="2"></td> </tr> <tr> <td>Contracted</td> <td>178,461</td> <td colspan="2"></td> </tr> </table>		Total	187,718 (¥'000)			Contracted	178,461			1) OJT on survey methods 2) Participation of 5 counterparts in the JICA training program			
Total	187,718 (¥'000)												
Contracted	178,461												

和名 ローコスト住宅開発計画

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