

PROJECT SUMMARY (F/S)

Compiled Mar.1991
Revised Mar.1995

ASO CHN/A 304/89

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 checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY	Integrated Agricultural Infrastructure Development in Dong Ting Lake Area in Hunan Province	Northern part of Hunan Province (right bank of Yangzi River middle basin)									
3.SECTOR	Agriculture/General	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost					
4.REFERENCE NO.		(US\$1,000)	1)	28,263	27,883	380					
5.TYPE OF STUDY	F/S	(US\$1=4.1Gen)	2)								
6.COUNTERPART AGENCY	Hunan Science and Technology Commission	3)	3.CONTENTS OF MAJOR PROJECT(S)								
7.OBJECTIVES OF STUDY	Feasibility study on the comprehensive water utilization and agricultural development plan	1) Model Block at Nan-da-ti Area (15,400ha: Nan-da area 8930ha; Huang Mao Zhou area 6,470 ha) - Drainage facilities for dike improvement work - Electric-transmission for Xiang-nan Drainage Pump Station - New pump station at the Nan-da District - On-farm level irrigation land in the Huang Mao Zhou district 2) Model Block at Shi-ji-hu-ti Area (105ha) - Drainage facilities and Horticultural facilities for technical Development - Experimental Center - Pump station land and other auto-irrigation facilities - Tunnel house * Implementation period below is 5 years.				(Description) (FY1991 Overseas Survey) In 1991 a request for a Japanese Grant Aid was made by the Chinese Government. Out of the total project budget of 2.55 billion yen, 1.2 billion yen is expected to be financed by the Grant Aid and the remaining by domestic funds. (FY1992 Overseas Survey) The Chinese side is executing the following projects by the local funds and hopes to execute the new pump station project in the Nan-da-ti Area. 1) Nan-da-ti Area - The dike improvement work is in progress. - The repair of drainage facilities was completed. (89 places) - The drainage construction plan was modified in order to reduce the cost of constructing substations. 2) Shi-ji-hu-ti Area - Construction of the electric-transmission facilities was completed. - Construction of irrigation canal & farm land is in progress. - The drainage work was completed. (155km) (FY1994 Domestic Survey) Basic Design Study using Japanese grant aid of FY1994 was decided to implement.					
8.DATE OF S/W	Apr.1988	Imp. Period:									
9.CONSULTANT(S)	Sanyu Consultants Inc. Japan Engineering Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 13.60 EIRR2) 20.10 EIRR3)	FIRR1) FIRR2) FIRR3)						
10.STUDY TEAM	No. of Members 14 Period Aug.1988-Feb.1990 (18 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">53.70</td> <td style="text-align: center;">19.60</td> <td style="text-align: center;">34.10</td> </tr> </table>	Total M/M	Japan	Field	53.70		19.60	34.10	Conditions and Development Impacts: Conditions: - The evaluation period is 50 years for 1), 20 years for 2). - The incremental crop production was calculated as the direct benefits of the project. Development Impacts: It is expected that agricultural development in Dong-Ting-Lake Reclamation area and urban type vegetable production could become possible. *The EIRR 1) and 2) are for Nan-da-ti and for Shi-ji-hu-ti		
Total M/M	Japan	Field									
53.70	19.60	34.10									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS					
12.EXPENDITURE	Total 194,043 (*000) Contracted 160,483	Transfer of technology for government officials in China and Japan were made.				In the large-scale agricultural development projects in China, local funds occupies a major part of finance. The request for finance is usually made only for foreign currency portion.					
								3.PRINCIPAL SOURCE OF INFORMATION			
						①, ②, ③					

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1992
Revised Mar.1995

ASO CHN/S 202B/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																									
1.COUNTRY	China	1.SITE OR AREA	The old area & a part of expansion area in Xian City (172 sq.km)<M/P> Inner City in Xian City (Final Disposal Site) Outer City in Xian City (Intermediate Treatment Site)<F/S>																										
2.NAME OF STUDY	Municipal Solid Waste Treatment Plan in Xian City	2.PROJECT COST				M/P 1) 14,431 Local Cost	14,431 Foreign Cost																						
3.SECTOR	Public Utilities/Uzban Sanitation		(US\$1,000) 2) 4,233	4,233	<p>1.PRESENT STATUS</p> <p><input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting</p> <p><input type="checkbox"/> Completed</p> <p><input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended</p> <p><input type="checkbox"/> Implementing</p> <p><input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled</p> <p>(Description)</p> <p>(FY1991 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.</p> <p>(FY1994 Domestic Survey) No additional information.</p>																								
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)	<p><M/P> Recommended plans for solid waste management system of the target year 2000 in Xian City are as follows:</p> <p>(1) Collection system Setting up of collection container and vehicle with a promotion of separate discharge system and establishment of 2 steps transportation system with transfer station.</p> <p>(2) Final disposal facility construction of final disposal facility (12,000,000 cu.m) assumed 10 years life.</p> <p><F/S>The First Phase Project of which the target year is 1995 should be as follows:</p> <p>1) Construction of controlled type of final disposal facility. 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</p> <p>2) Construction of transfer station. Contents of Major Project Targeted Population : 475,343 (1995) Planned waste collection volume : 477 tons/day Capacity of Planned Facilities : Compector Container 160 tons/day Flat Landfill 360 tons/day</p>																										
5.TYPE OF STUDY	M/P+F/S	4.FEASIBILITY AND ITS ASSUMPTIONS				Feasibility: Yes	EIRR1) 25.20 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)																					
6.COUNTERPART AGENCY	Joint Venture of Study for Municipal Solid Waste Treatment Plan in Xian City	10.STUDY TEAM				<p>Imp. Period: 1991-1995</p> <p>Conditions and Development Impacts:</p> <p><M/P><Impacts>:1) By adopting separate discharging system, flexibility for the future change of the disposal system would be secured. 2) The project would bring about more efficient waste collection and haulage system. 3) The project would make an improvement of environmental preservation.</p> <p><F/S>Unit cost: Operation and Maintenance 11.8 Yuan/ton Total cost 35.7 Yuan/ton 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%.</p> <table style="width: 100%; border: none;"> <tr> <td>Charge (Yuan/ton)</td> <td>Amount of Subsidy ('000/Yuan)</td> </tr> <tr> <td>10</td> <td>82,337</td> </tr> <tr> <td>20</td> <td>68,402</td> </tr> </table> <p><Impacts>: The project would bring about more efficient waste collection and</p>			Charge (Yuan/ton)	Amount of Subsidy ('000/Yuan)	10	82,337	20	68,402															
Charge (Yuan/ton)	Amount of Subsidy ('000/Yuan)																												
10	82,337																												
20	68,402																												
7.OBJECTIVES OF STUDY	Present Condition Analysis & Master Plan Feasibility Study	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							<p>5.TECHNICAL TRANSFER</p> <p>From the view point of the effective transfer of knowledge, all field investigation works were carried out in cooperation with counterpart engineer.</p>																				
8.DATE OF S/W	Sep.1988	12.EXPENDITURE										<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①, ②</p>																	
9.CONSULTANT(S)	Nippon Koei Co., Ltd. Japan Engineering Consultants Co., Ltd.														<p>2.MAJOR REASONS FOR PRESENT STATUS</p>														
																		<table style="width: 100%; border: none;"> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> <tr> <td>70.11</td> <td>38.56</td> <td>31.55</td> </tr> </table>			Total M/M	Japan	Field	70.11	38.56	31.55			
Total M/M	Japan	Field																											
70.11	38.56	31.55																											
			<table style="width: 100%; border: none;"> <tr> <td>Total</td> <td>261,310 ('000)</td> </tr> <tr> <td>Contracted</td> <td>15,334</td> </tr> </table>			Total	261,310 ('000)	Contracted													15,334								
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PROJECT SUMMARY (F/S)

Compiled Mar.1992
Revised Mar.1995

ASO CHN/S 313/90

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="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	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	
4.REFERENCE NO.		(US\$1,000)	1)	396,958	281,875	115,083	
5.TYPE OF STUDY	F/S	US\$1=4yuan	2)				
6.COUNTERPART AGENCY	Tianjin Science and Technology Commission	3.CONTENTS OF MAJOR PROJECT(S)				(Description) At present, it seems that technical sectors are considering the materialization of the project. However, details are unknown. (FY1991 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. (FY1992 Overseas Survey) Waiting for the answer. (FY1994 Domestic Survey) In this project, Solin station is scheduled to be the starting point, on the precondition that the Tianjin Subway Line No.1 will be extended to Solin. However, request for financial assistance has not yet been made, because the extension work of the subway is being delayed. (FY1994 Overseas Survey) (Please turn over)	
7.OBJECTIVES OF STUDY	F/S for a new railway line construction between Tianjin and Tanggu, about 50km	Construction by Tianjin City of a new passenger railway line of about 50 km between Tianjin and Tanggu --- Major purpose is the development of regions along the route, especially, the improvement of commuter transport in Tianjin and Tanggu, and balanced development of regions along the Hai He River. -Section to be opened at the 1st Stage(end of 1995): between Shuang Lin and He Bey Lue, 38.70km, Structures: viaduct 31.50km, embankment: 7.20km, No. of stations: 9 rolling stock: 58 cars (commuter electric railways), maximum operation speed of trains 120km/h -Section to be opened at the 2nd stage (early 2000): between He Bey Lue and Tianjin New Port, 10.85km, No. of stations: 2, rolling stock: 84 cars Operational safety and traffic control systems: cab signal block system, cab signal system, 1st-type electric relay or electronic relay system, automatic train control (ATC) system, centralized train control (CTC) system; Rolling stock base: 1) Base facilities: facilities for main part inspection or overhaul, temporary repair, trip inspection, regular inspection (monthly, etc.), car cleaning facilities, storage track, etc. 2) Inspection and repair facilities: management office, inspection building, workshop building, wheel grinding shop, maintenance base, other buildings; Electric facilities: power transformation facilities, contact wire facilities, power transmission and distribution wire					
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		Total M/M		Japan	Field	2.MAJOR REASONS FOR PRESENT STATUS	
Local students were used in a supplemental survey for collecting traffic data (Costs borne by the Chinese side.)		62.28	35.84	26.44	Delay of other related projects (development of economic and technical development areas).		
12.EXPENDITURE		Total		189,751 (¥'000)		3.PRINCIPAL SOURCE OF INFORMATION	
		Contracted		184,186	①, ②, ③		

和名 天津市津塘快速铁道新線建設計画

(F/S,D/D)

III. PRESENT STATUS OF STUDIED PROJECT

(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.

(FY 1994 Domestic Survey)

In this project, Solin station is scheduled to be the starting point, on the precondition that the Tianjin Subway Line No.1 will be extended to Solin. However, request for financial assistance has not yet been made, because the extension work of the subway is being delayed.

(FY 1994 Overseas Survey)

- 1) Although a loan from Japan was applied to the National Planning Committee, the loan was not admitted as a national project and Tianjin City is seeking for a funding method. At present, BOT method is discussed. The city asked American investment banks and corporations in Hong Kong, Singapore, Germany France, Canada, Thailand or Taiwan for finance. These corporations are inspecting profitability of the project.
- 2) Since the New Seacoast Development Project (10 years) was expanded and this project became more important, Tianjin City Representative Assembly and Planning Committee determined to promote this project. One of the most critical changes from the F/S is the change of areas for railway construction. Replacing the F/S plan of locating the starting point at the south side of the sea/river, the plan to make Tianjin Station a starting point of the railway and expand the line through Tianjin Airport, development district, bonded warehouse district, and the New Tianjin Harbor is now discussed by the Tianjin City Committee of Arts and Science.

Reasons of the changes are as follows:

- (1) the profitability of the line will be raised by cutting unnecessary railway service (11km between Tianjin Station and the starting point at the south side of the sea/river);
- (2) according to changes of the regional development plan, on which this project is based, demand expectation at present has become largely different from the expectation at the time of F/S.

(Note)

An Australian corporation financed A\$ 100mil. for the subway construction at Tianjin City, as a relieving project. The section between Tianjin and the original starting point of railway (11km southeast from Tianjin Station) planned in JICA's F/S will be served by the subway after completion.

PROJECT SUMMARY (Basic Study)

Compiled Mar.1992
Revised Mar.1995

ASO CHN/S 502/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS				
1.COUNTRY	China	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		Su-Shan water source area			(Description) The local government hopes for the project implementation by the grant aid from the Japanese Government. However, the priority of the project at the national level is reportedly not high enough to be included in the project list for the Japanese grant aid program. Although the local government is keen to implement the project, no action has been taken because of the budgetary limitations. (FY1994 Domestic Survey) No additional information.				
Groundwater Development Project in Urumuqi		2.PROJECT COST							
		Total Cost Local Cost Foreign Cost (US\$1,000) 1) 16,500 2,500 14,000 US\$1=135yen 2)							
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)							
Social Infrastructures/Water Resource Development		Groundwater Development: 30000t/day (15 drilling production wells with pump equipment)							
4.REFERENCE NO.		Water Supply System: Su-Shan, Urumuqi City Diameter 500mm Ductile iron pipe; 16000m Distribution in Reservoir; 6000 sq.m							
5.TYPE OF STUDY		Basic Study							
6.COUNTERPART AGENCY		Ministry of Geology & Mineral Resources							
7.OBJECTIVES OF STUDY		To conduct the master plan on the groundwater resources development for Su-Shan water source area							
8.DATE OF S/W		Aug.1987							
9.CONSULTANT(S)		4.CONDITIONS AND DEVELOPMENT IMPACTS							
Yachiyo Engineering Co., Ltd.		Urumuqi City has a water supply system of 160,000t/day capacity with a population of about 1200,000. 850,000 people out of it are receiving 80 litter per day. By this project, about 30% of the capacity will be increased and more than 100,000 people will be newly benefitting by conducting developed water to the worse areas.							
10.STUDY TEAM					2.MAJOR REASONS FOR PRESENT STATUS				
No.of Members 7 Period Jun.1988-Jul.1990 (25 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">43.96</td> <td style="text-align: center;">16.06</td> <td style="text-align: center;">27.90</td> </tr> </table>					Total M/M	Japan	Field	43.96	16.06
Total M/M	Japan	Field							
43.96	16.06	27.90							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION				
None		1) Know how to drive the high speed drilling rig and to manipulate progressed logging devices. 2) Know how to simulate the groundwater flow using the computer.			①, ②				
12.EXPENDITURE									
Total		445,584 (¥000)							
Contracted		161,643							

和名 ウルムチ地下水開発計画

(M/P,Basic Study,Other)

PROJECT SUMMARY (F/S)

Compiled Mar.1993
Revised Mar.1995

ASO CHN/S 314/91

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="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY Telephone Network Automatization Plan in Dehui County, Jilin Province		Whole area of Dehui County in Jilin Province (Population 820,000; Area 3,435 sq.km)					
3.SECTOR Communications & Broadcasting/Telecommunication		2.PROJECT COST (US\$1,000)		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		1)	17,500	11,908	5,592	(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. (FY1994 Domestic Survey) No additional information.	
5.TYPE OF STUDY		2)					
6.COUNTERPART AGENCY Posts and Telecommunications Administration of Jilin Province		3)					
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.		3.CONTENTES OF MAJOR PROJECT(S) 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. 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 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.					
8.DATE OF S/W		Imp. Period:					
9.CONSULTANT(S) NTT International Corporation		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 8.85 EIRR2) EIRR3)	FIRR1) 2.64 FIRR2) FIRR3)		
10.STUDY TEAM No. of Members 8 Period Jul.1990-Sep.1991(13 months)		Conditions and Development Impacts: 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.				2.MAJOR REASONS FOR PRESENT STATUS Chinese Government hold a lot of projects, therefore implementation of this project has been delayed.	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER - Method of survey and data analysis - Formulation of automatization plans - 2 counterparts took a training in Japan				3.PRINCIPAL SOURCE OF INFORMATION ①, ②	
12.EXPENDITURE							
Total		168,499 (¥'000)					
Contracted		110,175					

PROJECT SUMMARY (F/S)

Compiled Mar.1993
Revised Mar.1995

ASO CHN/A 306/91

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="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled																											
2.NAME OF STUDY		Qinzhou Region, Guangxi Zhuang Autonomous Region Area: 34,363 ha, Population: 135(thousand) (1990)																																
Improvement of Agricultural Land Reclamation Dike and Agriculture Development Project, Qinzhou Region, Guangxi Zhuang Autonomous Region		2.PROJECT COST (US\$1,000)		Total Cost	Local Cost	Foreign Cost																												
3.SECTOR				1) 240,742	178,894	61,847																												
Agriculture/General		3.CONTENTES OF MAJOR PROJECT(S)		2)																														
4.REFERENCE NO.				3)																														
5.TYPE OF STUDY		F/S		<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">Baiquwei</td> <td style="text-align: center;">Kangxilingwei</td> <td style="text-align: center;">Total</td> </tr> <tr> <td>* Reclamation Area</td> <td style="text-align: right;">: 7,930 ha</td> <td style="text-align: right;">3,333 ha</td> <td style="text-align: right;">11,263 ha</td> </tr> <tr> <td>* Reclamation Dike</td> <td style="text-align: right;">: 23.4 km</td> <td style="text-align: right;">12.4 km</td> <td style="text-align: right;">35.8 km</td> </tr> <tr> <td>* River Embankment Improvement</td> <td style="text-align: right;">: 43.8 km</td> <td style="text-align: right;">39.6 km</td> <td style="text-align: right;">83.4 km</td> </tr> <tr> <td>* Headworks</td> <td style="text-align: right;">: - unit</td> <td style="text-align: right;">1 unit</td> <td style="text-align: right;">1 unit</td> </tr> <tr> <td>* Main Irrigation Canal</td> <td style="text-align: right;">: 31 km</td> <td style="text-align: right;">9.6 km</td> <td style="text-align: right;">40.6 km</td> </tr> <tr> <td>* Roads</td> <td style="text-align: right;">: 463 km</td> <td style="text-align: right;">40.0 km</td> <td style="text-align: right;">503 km</td> </tr> </table>				Baiquwei	Kangxilingwei	Total	* Reclamation Area	: 7,930 ha	3,333 ha	11,263 ha	* Reclamation Dike	: 23.4 km	12.4 km	35.8 km	* River Embankment Improvement	: 43.8 km	39.6 km	83.4 km	* Headworks	: - unit	1 unit	1 unit	* Main Irrigation Canal	: 31 km	9.6 km	40.6 km	* Roads	: 463 km	40.0 km	503 km
	Baiquwei	Kangxilingwei	Total																															
* Reclamation Area	: 7,930 ha	3,333 ha	11,263 ha																															
* Reclamation Dike	: 23.4 km	12.4 km	35.8 km																															
* River Embankment Improvement	: 43.8 km	39.6 km	83.4 km																															
* Headworks	: - unit	1 unit	1 unit																															
* Main Irrigation Canal	: 31 km	9.6 km	40.6 km																															
* Roads	: 463 km	40.0 km	503 km																															
6.COUNTERPART AGENCY		China Guangxi Water and Power Department		(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/B 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 Baiquwei suffered damage from the 4th typhoon. On the other hand, Beibai city, adjoining Baiquwei, 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 Beibai 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. (FY1994 Domestic Survey) No additional information.																														
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																														
10.STUDY TEAM		No.of Members 11 Period Aug.1990-Sep.1991(13 months)		Feasibility: Yes EIRR1) 11.20 FIRR1) 9.20 EIRR2) 10.20 FIRR2) 8.30 EIRR3) FIRR3)																														
Total M/M		Japan 32.93		Conditions and Development Impacts: Conditions: The project sites are in Baiquwei and Kangxilingwei 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:																														
52.50		19.57		<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td colspan="2" style="text-align: center;">Baiquwei</td> <td colspan="2" style="text-align: center;">Kangxilingwei</td> </tr> <tr> <td>IRR</td> <td style="text-align: right;">11.2%</td> <td style="text-align: right;">9.2%</td> <td style="text-align: right;">10.2%</td> <td style="text-align: right;">8.3%</td> </tr> <tr> <td>E/C ratio (discount ratio 8%)</td> <td style="text-align: right;">1.46</td> <td style="text-align: right;">1.15</td> <td style="text-align: right;">1.29</td> <td style="text-align: right;">1.04</td> </tr> </table>				Baiquwei		Kangxilingwei		IRR	11.2%	9.2%	10.2%	8.3%	E/C ratio (discount ratio 8%)	1.46	1.15	1.29	1.04													
	Baiquwei		Kangxilingwei																															
IRR	11.2%	9.2%	10.2%	8.3%																														
E/C ratio (discount ratio 8%)	1.46	1.15	1.29	1.04																														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY				5. TECHNICAL TRANSFER																														
12.EXPENDITURE		Total 245,618 (¥'000)		Technical Transfer of Design Criteria on Reclamation Dike was done.																														
Contracted		170,591		2.MAJOR REASONS FOR PRESENT STATUS																														
				At the beginning, the Guangxi Regional Planning Committee was trying to implement the project in the National 8th Five Year Plan. However, the project requires adjustment to an integrated rural development plan, especially the harbor development plan. Besides, this project is not executed without the results of an environmental study which is currently in process.																														
				3.PRINCIPAL SOURCE OF INFORMATION																														
				①, ②																														

PROJECT SUMMARY (M/P+F/S)

Compiled Mar. 1994
Revised Mar. 1995

ASO CHN/A 202B/92

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="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2. NAME OF STUDY		M/P Site of area: 202,260 ha of Project area located in the center of mentioned autonomous district. F/S Model project area: 4,943ha in Changde region Huayaon prefecture						
The Integrated Agricultural and Animal dry Development Project in Xiangxi Nanzhi Shanno Are		2. PROJECT COST		M/P 1) Local Cost	Foreign Cost	(Description) It is only one year after completion of the study. Accordingly the Chinese Government is considering next step for the execution of the project. (FY1994 Domestic Survey) As a project based on this study, the Chinese Government is preparing for the agricultural and animal husbandry development project in the model region (5,000ha), and dispatch of expert.		
3. SECTOR		(US\$1,000)		F/S 1) 76,306	10,961			65,345
Agriculture/General				F/S 2) 4,349	3,757			592
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)						
5. TYPE OF STUDY		(M/P) Pasture development 31,000ha Farm road development 282km Agricultural instrument introduction 48,000 units live stock barn establishment, Livestock introduction, Meat processing facility (7 centers), Establishment or improvement of technical verification and promotion center for agriculture and animal husbandry Agricultural and rural development (Irrigation 1,345ha, Drainage 562ha, Rural water supply, school, Library, Marketing center, Medical Service and equipment, Rural electrification (F/S) Pasture development 973ha, Farm road development 30.9km, Agricultural instrument introduction 1,882 units. Live stock barn establishment. Livestock introduction, Agricultural and animal Husbandry development center, Sub-sector, Agricultural and rural development (Irrigation 47ha, Rural water supply, School, Library, Marketing center, Rural electrification (F/S)						
6. COUNTERPART AGENCY		Ministry of Agriculture, Hunan province Elaboration of M/P on Integrated Agricultural and Animal Husbandry Development Project in Xiangxi Shinjiazuo Miaozu autonomous district. Elaboration of F/S on priority projects in the model region of approx 5,000ha						
7. OBJECTIVES OF STUDY								
8. DATE OF S/W		Nov. 1990						
9. CONSULTANT(S)		Japan Agricultural Land Development Agency						
		Imp. Period: 1993-1995						
		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) 14.20 EIRR2) EIRR3)			FIRR1) FIRR2) FIRR3)
10. STUDY TEAM		Conditions and Development Impacts: (M/P, F/S) It is expected that in 2005 net average income will be increased from actual 210 yuan to 400 yuan per farmer as well as food crop production from 253kg to 325 kg per farmer in order to improve percentage of the poor farmers from actual 89.9 to 50.						
No. of Members 12 Period Feb. 1991-Jul. 1992 (17 months)								
Total M/M Japan Field 88.00 32.00 56.00								
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				2. MAJOR REASONS FOR PRESENT STATUS		
LANDSAT image : Processing		Cooperative works for making reports reception of counterpart staff into JALDA.				3. PRINCIPAL SOURCE OF INFORMATION		
12. EXPENDITURE						①		
Total		244,051 (¥000)						
Contracted		210,973						

和名 湘西南支山脉地区农牧畜業綜合開発計画

[M/P+F/S]

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1994
Revised Mar.1995

ASO CHN/A 203B/92

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	China	1. SITE OR AREA	Liao-Ho Delta, Liaoning Province 1,140,000ha		1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Liao-Ho Delta Agricultural Resources Integrated Development Project in the Liaoning Sheng	2. PROJECT COST (US\$1,000)	M/P 1) 2) F/S 1) 2) 3)	Local Cost 35,200 3,234	Foreign Cost 11,500 3,234	(Description) The Government of China (GOC) has requested technical assistance to GOJ for the hydraulic model test of Bai-Shi Dam, of which construction is scheduled to commence in 1996. GOC expects OECF loan (fourth loan 1996-2000). (FY1994 Domestic Survey) Chinese government requested financial assistance for Bai-Shi Dam in fourth OECF loan, and technical assistance for hydraulic test of the dam model to JICA. Japanese side is under consideration of this request.
3. SECTOR	Agriculture/General	3. CONTENTS OF MAJOR PROJECT(S)	*Project costs are shown in "million yen" instead of US\$ 1,000 <M/P> 1) Bai-shi Multipurpose Dam Project for irrigation, municipal and industrial water supply, hydropower and flood control. Concrete gravity type having the dam volume of 560,000m ³ . Reservoir storage capa. 1,600 MCM. Effective storage 660 MCM. 2) Da-ling-he Delta Agricultural Development Project (Irrigation and drainage development with land consolidation of the existing up land field of 9,000ha for paddy cultivation and irrigation water supply to the existing paddy fields of 8,000ha) 3) Improvement of existing three ponds located in the paddy field of Liao Ho Delta. (Storage capa. 7.5 MCM increased by 2.4 MCM) 4) Irrigation and drainage development for the existing feed fields about 69,000ha. 5) Da-Wa Delta Agricultural Development Project. (land reclamation and consolidation for 10,000ha for paddy.) <F/S> Bai-shi Multipurpose Dam Project for irrigation, municipal and industrial water supply, hydropower and flood control. Concrete gravity type having the dam volume of 560,000m ³ . Reservoir storage capa. 1,600 MCM. Da-Wa Delta Agricultural Development Project. (land reclamation and consolidation for 1,000ha for paddy.)			
4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
5. TYPE OF STUDY	M/P+F/S	10. STUDY TEAM	Conditions and Development Impacts: (M/P) 1) Bai-shi Multipurpose Dam Project 14.6 2) De-ling-he Delta Agricultural Development Project included in 1) 3) Improvement of existing three ponds 20.2 4) Irrigation and drainage development for road fields 21.1 5) Da-Wa Delta Agricultural Development Project 12.2 (F/S) Bai-Shi Dam Project Present water shortage in Liao-Ho Delta will be drastically improved and flood damage in the Da-ling He Delta will much decrease. Da-Wa Project Production of 60,000 tons of paddy, which contributes to the self-sufficiency in Liaoning Province is expected.			
6. COUNTERPART AGENCY	Water Resources and Electric Power Liaoning Province	8. DATE OF S/W	Sep.1990			
7. OBJECTIVES OF STUDY	M/P for the agricultural development and F/S for Bai-Sui-Shi Dam Construction Project and Da-Wa Delta Agricultural Development Project	9. CONSULTANT(S)	Nippon Koel Co., Ltd. Hokkaido Engineering Consultants Co., Ltd.			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
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12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field 116.49 35.94 80.55			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field 116.49 35.94 80.55			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field 116.49 35.94 80.55			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field 116.49 35.94 80.55			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field 116.49 35.94 80.55			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field 116.49 35.94 80.55			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field 116.49 35.94 80.55			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field 116.49 35.94 80.55			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field 116.49 35.94 80.55			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field 116.49 35.94 80.55			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field 116.49 35.94 80.55			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	Total 458,221 (¥000) Contracted 419,126			
12. EXPENDITURE		11. ASSOCIATED AND/OR SUBCONTRACTED STUD				

PROJECT SUMMARY (F/S)

Compiled Mar.1994

Revised Mar.1995

ASO CHN/S 315/92

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="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		Cathement area and river length of Hang Kou: 159,000 sq.km and 1,577 km respectively					
Flood forecasting and warning system in the middle and lower reaches in the Chang Siang		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)	1)	99,600	8,270	91,330	
				2)			
				3)			
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)				(Description) (There has been no information from the executing agency after the completion of the study.) (FY1994 Domestic Survey) The chinese government is now taking actions to promote as Japanese grant aid project.	
Social Infrastructures/River & Erosion Control		* Proposed project costs are shown in 1,000 yuan instead of US\$ 1,000					
4.REFERENCE NO.		Provision of flood forecasting and warning system with the following sub-systems was proposed:					
5.TYPE OF STUDY		1) Data observation and collection system: Control center (1), sub-control center (3), repeater station (18), tele-meter station (61)					
6.COUNTERPART AGENCY		2) Data processing system: computer system with file server (1), work-station (2), display (3), hard disk, printer, and so on.					
Chang Siang Water Resources Development Authority		3) Data transmission system: transmission of data and information by multiplex transmission line including facsimile and telephone					
7.OBJECTIVES OF STUDY							
The objective of study is to carry out feasibility study on the flood forecasting and warning system in the middle and lower reaches in the Han Jiang							
8.DATE OF S/W		Imp. Period: Apr.1993-Mar.1994					
Mar.1990		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) 13.90 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)		
9.CONSULTANT(S)		Conditions and Development Impacts:					
Nippon Koel Co., Ltd.		1)Economic benefit: decrease of cost for flood fighting work and increase of movable households in flooding areas due to shortening of times for data collection, processing and transmission with higher accuracy.					
10.STUDY TEAM		2)Social impacts: contribution for saving lives in flooding areas, stabilization of social lives, and introduction of new communication and flood forecasting/warning technologies					
No.of Members 8		3)Construction period: 2 years					
Period Jul.1990-Jul.1992 (25 months)		4)Project life: 15 years					
Total M/M		Japan		Field			
56.33		20.58		35.75			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer					
		Counterparts Training in Japan-Holding Seminar Technical Transfer for Method of Flood Control and Sabo					
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION					
Total		①					
218,669 (¥000)							
Contracted							
197,801							

和名 漢江中下流区間洪水予警報計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar.1994
Revised Mar.1995

ASO CHN/S 316/92

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"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY Jilin Fengman Dam Rehabilitation Project		Fengman Dam, upstream and relevant lower reaches					
3.SECTOR Social Infrastructures/Water Resource Development		2.PROJECT COST (US\$1,000)		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.				1) 80,835	35,580	45,255	
5.TYPE OF STUDY		F/S		2)		3)	
6.COUNTERPART AGENCY Fengman Power Plant, Northeast China Electric Power Administration, Ministry of Energy		3.CONTENTS OF MAJOR PROJECT(S)				(Description) -Inquiry for the project from Fengman Power Plant on 16, March 1993 -The detailed cost was sent to Fengman Power Plant on 22, March (FY1994 Domestic Survey) No additional information.	
7.OBJECTIVES OF STUDY - To review the safety of the Dam - To review the Flood Control Volume (Discharge) - To formulate the Immediate and the Longterm Dam Rehabilitation Plan.		<Immediate Measures> - Grouting - Pre-stressing work - Additional drain hole - Rearrangement of dam observation facility - Reservoir capacity survey - water stop measure for upstream surface of dam - Rehabilitation for penstock - Dam crest pavement, rehabilitation for gallery & handrails <Long-term measures> - Spillway expansion - Dam stability measures - Anti-frozen measures of dam					
8.DATE OF S/W		Oct.1990		Imp. Period: 1994-1998			
9.CONSULTANT(S) INA Civic Engineering Consultants Co., Ltd.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1 13.70	FIRR1	
10.STUDY TEAM					EIRR2	FIRR2	
No.of Members 11				Conditions and Development Impacts:			
Period Mar.1991-Mar.1993(5 months)				<Impact>			
Total M/M		Japan		- Contribution to the safety for the steady power supply			
56.30		22.80		- To prevent the damage on Jilin City, farmland along the Songhua River and the bridges by means of flood control			
Field		33.50		5.TECHNICAL TRANSFER			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Seismic Tomography Analysis, Upstream surface observation, Core Boring, Compression Test and Bore Hole Observation				- On-the-job training and seminar during the field investigation - Counterpart training in Japan (two counterpart)			
12.EXPENDITURE				2.MAJOR REASONS FOR PRESENT STATUS			
Total		303,148 (¥'000)					
Contracted		242,438		3.PRINCIPAL SOURCE OF INFORMATION			
				①			

和名 吉林豊満ダム修復強化計画

[F/S,D/D]

PROJECT SUMMARY (M/P)

Compiled Mar.1995
Revised

ASO CHN/S 102/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS						
1.COUNTRY	China	1.SITE OR AREA	Two Wards (Xunyang Ward and Lushan Ward) in Jiujiang City, Jiangxi Province. Total area is 669 km ² .			I.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued				
2.NAME OF STUDY	Integrated Regional Development Planning Study on jiujiang City, Jiangxi Province	2.PROJECT COST				Total Cost		Local Cost	Foreign Cost	(Description) Counterpart team is following up the study results.	
3.SECTOR	Development Plan/Integrated Regional Development Plan		(US\$1,000)	1)	2,010,901						
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)		2)							
5.TYPE OF STUDY	M/P	This study selected 18 priority projects which are necessary to achieve development goals and strategies and are expected to lead the reform of economic and social structure of Jiujiang City. The selected sectors and projects are as follows. Industry : 1)Industrial Estate for Small Scale Enterprises Bonded Area Development 2)Balihu Special Area for Industrial Development and Institutional Building to Attract Foreign Enterprises 3)Jiujiang Technical Center Tourism : 1)Jiujiang-Lushan Convention City 2)Lushan Resort Development Distribution : 1)Truck Interchange Terminal 2)Freight Through Transit Terminal 3)Wholesale Estate Transport : 1)changjiang River South Bank High Standard Highway 2)Jiujiang City Road 3)Jiujiang New Port 4)Port District Trunk Road Urban Development and Environment : 1)Sanitary Facilities Improvement 2)Solid Waste Treatment Facilities Human Resources : 1)Industrial Management Development in Central China 2)Jiujiang University									
6.COUNTERPART AGENCY	Economic Planning Committee, Jiujiang People's Government, Jiangxi Province										
7.OBJECTIVES OF STUDY	Setting masterplan of Jiujiang City. This masterplan consists of four sectors; transport, distribution, tourism and industry. The target year is 2010.										
8.DATE OF S/W	Apr.1992										
9.CONSULTANT(S)	International Development Center of Japan Pacific Consultants International										
10.STUDY TEAM	4.CONDITIONS AND DEVELOPMENT IMPACTS Most important assumption for the proposals above is that Jiujiang's economy in 2010 will grow as large as 4.3 times in 1990. Its annual growth rate is 7.5%. Implementation of the projects with high priority will lead Jiujiang to a Networking City. Based on interregional function in physical distribution, industrial linkage and human resources exchange, the Networking City can be described as a city to combine regional center function supported by economic development of its hinterland and gateway function of Jiangxi Province.				2.MAJOR REASONS FOR PRESENT STATUS						
					No.of Members 12 Period Sep.1992-Jan.1994(17 months)						
					<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">78.10</td> <td style="text-align: center;">2.50</td> <td style="text-align: center;">75.60</td> </tr> </table>	Total M/M	Japan	Field	78.10	2.50	75.60
Total M/M					Japan	Field					
78.10					2.50	75.60					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY											
12.EXPENDITURE	Total 340,961 (¥'000) Contracted										
		5. TECHNICAL TRANSFER	1)two seminars on Japan's development experiences and regional planning scheme during this study. 2)two training programs in Japan. 3)A technology transfer seminar at Nanchang.			3.PRINCIPAL SOURCE OF INFORMATION	①				

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1995
Revised

ASO CHN/S 202/93

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="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		Waiqaochao District in Pudong New Economic Zone in Shanghai					
Waiqaochao District in Pudong New Economic Zone in Shanghai		2.PROJECT COST (US\$1,000)		M/P 1) 2) 3)	Local Cost	Foreign Cost	
3.SECTOR				FS 1) 2) 3)	750,000	325,000	
Social Infrastructures/Urban Planning & Land Development					1,350,000		
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)				(Description) 1. Development of Pudong New Economic Zone is now paid remarkable attention as a new industrial base, in accordance with Shanghai's rapid economic growth due especially to increase of foreign direct investment, in reflect this situation, the first phase of the free trade zone has been successfully sold out. This study focuses mainly on the second phase of the free trade zone including recommendations regarding management and organization. Some of the recommendations have already approved and applied. 2. The LRT recommended in the study is forwarded to next step of the study by Shanghai itself.	
5.TYPE OF STUDY		1) Ports Development					
6.COUNTERPART AGENCY		Containerization of existing 2 berthes, new ports, ship building					
Shanghai Urban Planning and Design Institute		2) Industrial Development					
7.OBJECTIVES OF STUDY		Freetrade Zone development					
To formulate master plan for Waiqaochao district with the target year of 2000 and 2020.		3) Urban Development					
8.DATE OF S/W		loop road, arterial road network, LRT, residential area development, town center, urban utilities development					
Jun.1991							
9.CONSULTANT(S)		Imp. Period:					
Pacific Consultants International ALMEC Corporation Overseas Coastal Area Development Institute		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)		
10.STUDY TEAM		Conditions and Development Impacts:				2.MAJOR REASONS FOR PRESENT STATUS	
No.of Members 14							
Period Jul.1992-Oct.1993(16 months)							
Total M/M		Japan		Field			
76.38		30.88		45.50			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer				3.PRINCIPAL SOURCE OF INFORMATION	
Manufacturing Firm Questionnaire Survey		Receipt of Trainees Holding seminar				①	
12.EXPENDITURE							
Total		304,473 (¥'000)					
Contracted		279,165					

和名 上海市浦东新区外高桥地区開発計画調査

{M/P+F/S}

PROJECT SUMMARY (F/S)

Compiled Mar.1995
Revised

ASO CHN/S 301/93

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="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		Chongqing City : area 120km Population 2,100,000(year 1990)					
Rapid Guided Transport System Planning in Chongqing		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)	1)	400,214	141,334	258,880	
		1yuan=22yen 1us\$=126yen		2)			
				3)			
3.SECTOR		3.CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1994 Domestic Survey) Chongqing city requested the Japanese Government to provide financial assistance in order to realize the project. At present, the Japanese Government is studying the request. (FY1994 Overseas Survey) This project was decided to be nominated as a first half plan (1996-2000) of the 4th OECF loan for China (1996-1998) according to the information in Dec. 1994.	
Transportation/Railway		1)New line construction for a straddle-type monorail system between Jiao cheng ko and Xin shan cun,about 17.4km Stations : 17 stations Main civil structures : viaduct(about 14km),tunnel(about 2.2km), depot(one place) Electrification system : DC 1500V Rolling Stock : 64 cars(year 2000),112 cars(2010), 160cars(2020)					
4.REFERENCE NO.		2)Construction and opening schedules 1996 : Start of construction End of 2000 : opening of the section between Jiao chang kou and Da yan cun(about 13.5km,the 1st phase construction) End of 2010 : opening of the section between Da yan cun and Xin shan cun(about 3.9km, 2nd phase construction)					
5.TYPE OF STUDY		F/S					
6.COUNTERPART AGENCY		Science and Technology Commission of Chongqing Municipality					
7.OBJECTIVES OF STUDY		Feasibility study on urban guided transport system planning in Chongqing					
8.DATE OF S/W		Jun.1992					
9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS					
Japan Railway Technical Service Pacific Consultants International		Feasibility: Yes/No	EIRR1) 12.23 FIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	3.80		
10.STUDY TEAM		Conditions and Development Impacts: Conditions and Development Impacts : The introduction of the guided transport system will serve for the alleviation of east-west traffic congestion in the city center of Chongqing. This project will also contribute to the development of sound social and economic activities in the entire Chongqing City by realizing efficient transport and coping with the large transport demand arising in the city center, Down town, Da ping area, Yang jia ping area, Da du kou area, etc.					
No.of Members 16 Period Dec.1992-Jan.1994(14 months)							
Total M/M		Japan		Field			
64.78		32.51		32.27			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS	
		1)Site survey : economic and financial analysis,train operation and rolling stock planning, facilities planning, electric system, etc. 2)C/P training(one person):demand forecast and economic analysis.(June,1993)					
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION				①, ③	
Total 238,161 (¥'000) Contracted 226,000							

PROJECT SUMMARY (F/S)

Compiled Mar.1995
Revised

ASO CHN/A 309/93

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="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY		Second Irrigation Section in Qianguo Area in Jilin Province Area : 37,200ha, Population : 51,575(1990)		Total Cost Local Cost Foreign Cost			
Facilities Improvement Project in Second Irrigation Section in Qianguo Area in Jilin Province		2.PROJECT COST (US\$1,000)		69,538 39,853 29,685		(Description)	
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)		1) 2) 3)			
Agriculture/General		1.Improvement of the New Second Pumping Station and Water Facilities		This project is referred to the Eighth Five-Years Plan in Jilin Province. Chinese government has been constructing the Chimonto drainage station and the canals along it which are the main drainage facilities in the study area. The drainage station is expected to complete in 1994. With regard to the First, Second, and Third Irrigation Sections, Chinese government was carried out the construction of tailed canals based on the Five-Years Plan. In respect of the Second Irrigation Section, which is the object of F/S on this project, it has been on urgent task to construct pumping station diversified at 48t per second from the Second Shokako which is water resouses, main canals, and Water Management Facilities along the pumping station. Under these circumstances, the Ministry of Water Resouses In china has requested the grant aid of Japan.(1994.5)			
4.REFERENCE NO.		2.Constructio of Fish Farm					
5.TYPE OF STUDY		3.Land Consolidation					
F/S		4.Improvement of Water Management Facilities					
6.COUNTERPART AGENCY		-Water Supply Station : vertical mixed flow type 2,000(Q=9.4m3/s) X 3 642LB-50 1,625(Q=8.4m3/s)(Made in China)					
Committee of Science & Technology, Ministry of Water Resouses in Julin Pro.		-Water Facility : 85.3km					
7.OBJECTIVES OF STUDY		-Drainage Station : 202LB-100 500(Q=0.5m3/s) X 2(Made in China)					
Feasibility-Study of the Improvement of Irrigation Facilities in Second Irrigation Section Located at the left Bank of Second Shokako in Julin Province		-Drainage Facility : 89.6km					
8.DATE OF S/W		-Fish Farm : 250ha					
Oct.1991		-Land Consolidation : 8,005ha, Farm Road;126km, Bridge;24 places					
9.CONULTANT(S)		-Water Management Facilities :		Imp. Period: Jan.1996-Dec.2001			
Taiyo Consultants Co., Ltd. Nippon Giken Inc.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes			
10.STUDY TEAM		EIRR1) 13.60 FIRR1)		EIRR2) 15.80 FIRR2)			
No.of Members 11		EIRR3) 17.20 FIRR3)		Conditions and Development Impacts:			
Period Feb.1991-Mar.1993(25 months)		It is anticipated that in any cases Economic Internal Rate of Return is higher than opportunity cost of capital, and these four conditions would not influence the economic feasibility of the project.(discount rate : 12%)		Conditions ;			
Total M/M Japan Field		1)30 percent increase in expenditure		2)10 percent decrease in benefits of increased agricultural production(due to fluctuations in prices or amount of harvest)			
77.08 45.00 32.08		3)1 year extension of construction period for the New Second Pumping Station (due to uncertainty of the conditions of execution of the work)		4)Occurrences of both 1) and 2)			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER		2.MAJOR REASONS FOR PRESENT STATUS			
		Technical exchange of irrigation and drainage was carried out. Seminar on technical transfer was held at an explanatory meeting of Draft-Final Report.					
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION		①, ⑤ (the Japanese Embassy in China)			
Total 323,586 (¥'000)							
Contracted 302,601							

和名 吉林省前郭地区第二灌溉区施設整備計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar.1990

Revised Mar.1995

ASO IND/S 301/87

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 checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		Between Delhi and Kanpur, northwestern India					
Railway Improvement Plan of Transport Capacity and Train Speed on the Delhi-Kanpur Section		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)		1)	1,677,000	1,440,000	237,000
		(US\$1=12.87Rp)		2)			
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)				(Description) The study recommended that the conventional line improvement be carried out including the section between Kanpur 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 Kanpur - Calcutta section, utilizing the method employed by this study. Conventional line improvement is partially under way. (FY1991 Overseas Survey) Indian Railway Board hopes to implement the project, but has no definite schedule. (FY1994 Domestic Survey) No additional information. (FY1994 Overseas survey) Even though a new express, whose highest speed is 250km/h, plan will be necessary for the Indian Ministry of Transportation in the future, it is not planned at present. Based upon the plan which enables existing express service to realize the highest speed of 160km/h, improvement of the whole section between Delhi and Calcutta is implementing. Since preparation of electric locomotives and arrangement of tracks or signals are almost completed with few exceptions, the new railway service will be started in June 1995. The frequency of service is scheduled as once a day in the beginning.	
Transportation/Railway		I. Conventional line improvement by 1991: max. speed 160km/h, Ghaziabad-Kanpur 1. Track & 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 & 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 & Juhi marshalling yards); 6) Remodeling of No. 304 bridge and Hathras overbridge 2. Rolling stock: Imprv. of high-speed running performance and brake performance of electric locomotives, passenger cars, and freight cars 3. Signals and telecommunications: Signal automation, electronic interlocking, auto-matic control of levelcrossing facilities, and introduction of ATS (automatic train stop) and CTC (centralized train control) systems 4. Electrification: Partial modification of the contact-wire structure II. High-speed railway construction by 2000: max. speed 250km/h, Delhi-Agra-Kanpur 1. Terminals: New Delhi, New Agra, and New Kanpur 2. Track and structures: Embankment section 412km; viaduct section 17km; sections jointly used by the conventional railway 21km. 3. Rolling Stock: A super express train of 6 motored cars and 10 trailers 4. Signals and telecommunications: Automatic train control(ATC) system.					
4.REFERENCE NO.							
5.TYPE OF STUDY		F/S					
6.COUNTERPART AGENCY		Indian Railway Board					
7.OBJECTIVES OF STUDY		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					
8.DATE OF S/W		Oct.1986					
9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility:	EIRR1) 42.62 FIRR1) 25.79		
Japan Railway Technical Service Tonichi Engineering Consultants, Inc. Yachiyo Engineering Co., Ltd. The Japan Electrical Consulting Co., Ltd.				Yes	EIRR2) 36.08 FIRR2) 18.00		
					EIRR3) FIRR3)		
		Conditions and Development Impacts: 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. 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					
10.STUDY TEAM							
No. of Members 17							
Period Feb.1987-Jan.1988(12 months)							
Total M/M		Japan		Field			
93.41		55.66		37.75			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		traffic data collection.					
12.EXPENDITURE		5.TECHNICAL TRANSFER					
Total		1)OJT: Movies on Shinkansen and conventional line improvement. 2)Utilization of a local consultant as an assistant in traffic data collection.					
Contracted		267,615 (¥'000)					
		257,220					
		3.PRINCIPAL SOURCE OF INFORMATION					
		①, ②, ③					
		2.MAJOR REASONS FOR PRESENT STATUS					
		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.					

PROJECT SUMMARY (F/S)

Compiled Mar. 1990
Revised Mar. 1995

ASO IND/S 302/87

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"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Modernization of Rolling Stock Workshop	Jamaipur Workshop (Eastern Railway), Perambur Workshop (Southern Railway)					
3. SECTOR	Transportation/Railway	2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4. REFERENCE NO.		(US\$1,000)	1)	87,000	64,100	22,900	
5. TYPE OF STUDY	F/S	(US\$1=12.87Rp)	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)				(Description)	
8. DATE OF S/W	Oct. 1986	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) Jamaipur 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 lathes, 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.					
9. CONSULTANT(S)	Japan Railway Technical Service Pacific Consultants International	8. DATE OF S/W		Imp. Period:	1989~1994	1989~1996	(FY1994 Domestic Survey) The Ministry of Finance, of India Government has sent official letter to New Delhi office of OECF on Aug. 1994 saying that the loan amount for the project has remained unutilized because of non-conclusion of consultancy agreement between the Indian project executing agency and the Japanese consulting firm for various reasons. Indian Government, therefore, decided to terminate the loan agreement, and asked for the agreement of OECF for the termination. Following the above request, OECF HDQ is taking contact with concerned Ministries of Japanese Government to terminate the loan. (FY1994 Overseas Survey) L/A of OECF loan was concluded in March 1990, but abrogated in June 1994. The reason was that, though consulting concerning detailed design (JARTS), proposals of the Ministry of Railways and negotiation for contracts started in October 1990, no conclusion was made even spending a long time. It has been difficult for the ministry to make a conclusion because they had been seeking for possibility to privatize train production and railway management, keeping accordance with the Indian government's grand policy of privatization since 1991.
10. STUDY TEAM	No. of Members 14 Period Feb. 1987-Jan. 1988 (12 months)	9. CONSULTANT(S)		4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 21.00 FIRR1) 17.00 EIRR2) 18.00 FIRR2) 16.00 EIRR3) FIRR3)	
Total M/M Japan Field 67.26 43.56 23.70		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.				2. MAJOR REASONS FOR PRESENT STATUS	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER					
12. EXPENDITURE		Q/T : Lecture were given on methods to guide workshop personnel in promoting the modernization project.				3. PRINCIPAL SOURCE OF INFORMATION	
Total 192,044 (¥'000) Contracted 185,418							

PROJECT SUMMARY (M/P+F/S)

ASO IND/S 201B/89

 Compiled Mar. 1991
 Revised Mar. 1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1. COUNTRY	India	1. SITE OR AREA				I. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled		
2. NAME OF STUDY		Calcutta and Haldia						
Development of Calcutta and Haldia Dock Systems of Calcutta Port Trust		2. PROJECT COST		M/P 1) 2)	Local Cost	Foreign Cost		
		(US\$1,000)		FS 1) 2)	243,874	137,430		
		US\$1=Rs13.50=135yen		3)	106,444			
3. SECTOR		3. CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1991 Overseas Survey) <M/P>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 Cumeli 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 <F/S>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. Haldia 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. (FY1993 Overseas Survey) Improvement of Roads in and around Dock area, replacement of loading facilities and replacement of port service vessels have been partially completed. Remainder Works are now implementing. (FY1994 Domestic Survey) No additional information. (FY1994 Overseas Survey) (Please turn over)		
Transportation/Port		<M/P> Master Plan with the target year of 2005. 1. Functional Allocation The container traffic allocation between Calcutta and Haldia 2. Effective land use of Calcutta Port Trust 3. Improvement of Transportation Facilities 1) Construction of Bridge 2) Construction of handling place for railway cargo. 4. Improvement of Navigation Aid System						
4. REFERENCE NO.		<F/S> Short-Term Plan with the target year to 1995 (1) Calcutta - Port road - Railway - Rehabilitation of port facilities - CFS - Dredging - Cargo handling equipment - Port Service vessels						
5. TYPE OF STUDY		(2) Haldia - Container berth - Multi-Purpose berth - Yard - Railway - Cargo handling equipment - Port Service vessels						
6. COUNTERPART AGENCY		Imp. Period: 1990-1995						
The coordination committee Government of India (Ministry of Surface Transport, Port Department)		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 17.13 EIRR2) EIRR3)			FIRR1) 12.14 FIRR2) FIRR3)
7. OBJECTIVES OF STUDY		Conditions and Development Impacts: <M/P> Demand Forecast (unit: 1,000t) Liquid Bulk Cargo 2,495 Dry Bulk Cargo 1,070 Container Cargo 2,235						
To prepare a Master Plan up to the year 2005. To prepare a Short-Term Development plan up to the year 1995.		<F/S> Demand forecast Calcutta Haldia Port (unit: 1,000t) Liquid Bulk Cargo 1,210 Dry Bulk Cargo 610 Container Cargo 1,110 Other General Cargo 2,210						
8. DATE OF S/W		10. STUDY TEAM						
Dec. 1987		No. of Members 13		Period May 1988-Oct. 1989 (17 months)				
9. CONSULTANT(S)		Total M/M		Japan	Field			
Overseas Coastal Area Development Institute		142.26		72.09	70.17			
		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY						
		Soil investigation Sounding						
12. EXPENDITURE		5. TECHNICAL TRANSFER						
Total 276,611 (¥000)		Through discussion with counterpart, we conducted technical transfer by transmitting our idea of the study and the study method and so on.						
Contracted 280,277		3. PRINCIPAL SOURCE OF INFORMATION						
		①, ② Ministry of Surface Transport, ③						
		2. MAJOR REASONS FOR PRESENT STATUS						

和名 カルカッタ・ハルディア港開発計画

(M/P+F/S)

III. PRESENT STATUS OF STUDIED PROJECT

(Description)

(FY1991 Overseas Survey)

<M/P>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

<F/S>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. Haldia 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.

(FY1993 Overseas Survey)

Improvement of Roads in and around Dock area, replacement of loading facilities and replacement of port service vessels have been partially completed. Remainder Works are now implementing.

(FY1994 Domestic Survey)

No additional information.

(FY1994 Overseas Survey)

After the completion of F/S, the Calcutta Port Trust(CRT) completed D/D and the construction partially.

(Calcutta port)

Port road: partially finished

Port railway: (partially finished)

Improvement of port facilities: (partially finished)

Container freight station (CFS), loading/discharging machines: (partially finished)

Development of the container park is partially finished by ADB loans. Container cargo operation is controlled by computers.

(Haldia port)

Container berth: general freight berth - finished

multi-purpose berth - under construction

Yard: partially finished

Port railway: under construction

Dredging: untouched (due to the lack of fund)

Loading/discharging machines: partially finished

Almost all the fund was domestically financed (by governmental budget, internal reserve, or loans). Foreign fund, that was allocated to the container park at Calcutta, was financed by the ADB loan.

JICA F/S re-categorized the improvement of pilot systems into short-term action items (previously long-term objectives). It is for the purpose of cost reduction and improving CPT's financial status by raising working ratio of pilots and maintaining working circumstances.

PROJECT SUMMARY (F/S)

Compiled Mar.1991

Revised Mar.1995

ASO IND/S 303/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																								
1.COUNTRY	India	1.SITE OR AREA		200 kilometers around New Delhi <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">2.PROJECT COST</td> <td style="width: 10%;"></td> <td style="width: 20%;">Total Cost</td> <td style="width: 20%;">Local Cost</td> <td style="width: 20%;">Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td>1)</td> <td>94,727,000</td> <td>83,544,000</td> <td>11,183,000</td> </tr> <tr> <td>US\$1=17.75Rs</td> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)	94,727,000	83,544,000	11,183,000	US\$1=17.75Rs	2)					3)				1.PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled				
2.PROJECT COST		Total Cost	Local Cost			Foreign Cost																								
(US\$1,000)	1)	94,727,000	83,544,000	11,183,000																										
US\$1=17.75Rs	2)																													
	3)																													
2.NAME OF STUDY Development Plan for the New Delhi Railway Station		3.CONTENTES OF MAJOR PROJECT(S)		(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. (FY1994 Domestic Survey) No additional information. (FY1994 Overseas Survey) 1) Development of the New Delhi Station As the phase I construction, extension of pedestrian bridges(2), construction of platforms (2) with transfer of lines for train wash and repair, constructions of lines for train wash (2), repair (5) and storage (2), maintenance of parking for buses and taxis at the east entrance of the station have been completed by the budget of the Indian Ministry of Railways (Rs. 60 million) since April 1993. As the phase II construction, building of new platforms (2), etc. will be completed from June 1995. 2) Railway track improvement project in New Delhi Construction completed until present are as follows: double tracking, advancement of signal systems, electrification, building of new stations (land purchase only). It can be found that the Ministry of Railways gives priority to each project according to JICA F/S and tries to realize one by one keeping budget constraint. Neither building of a new line (bypass) nor automation of signal systems is planned.																										
3.SECTOR Transportation/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.																												
4.REFERENCE NO.						4.FEASIBILITY AND ITS ASSUMPTIONS		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">EIRR1)</td> <td style="width: 15%;">19.50</td> <td style="width: 15%;">FIRR1)</td> <td style="width: 15%;">12.13</td> </tr> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>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)																											
5.TYPE OF STUDY F/S		Conditions and Development Impacts: 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.																												
6.COUNTERPART AGENCY Northern Railway						5.TECHNICAL TRANSFER		2.MAJOR REASONS FOR PRESENT STATUS The Indian side can deal with many parts of the project in respect of technology and finance.																						
7.OBJECTIVES OF STUDY 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		1) During site investigations, technical transfer was made in such respects as planning and construction methods. 2) One counterpart received JICA training.																												
8.DATE OF S/W Apr.1988						Imp. Period: 1991~1995		3.PRINCIPAL SOURCE OF INFORMATION ①, ③																						
9.CONSULTANT(S) Japan Railway Technical Service Tonichi Engineering Consultants, Inc.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">10.STUDY TEAM</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td>No. of Members</td> <td>13</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Period</td> <td>Nov.1988~Jan.1990(11.5 months)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> <td></td> <td></td> </tr> <tr> <td></td> <td>30.18</td> <td>35.55</td> <td></td> <td></td> </tr> </table>				10.STUDY TEAM							No. of Members	13				Period	Nov.1988~Jan.1990(11.5 months)				Total M/M	Japan	Field				30.18	35.55
10.STUDY TEAM																														
No. of Members	13																													
Period	Nov.1988~Jan.1990(11.5 months)																													
Total M/M	Japan	Field																												
	30.18	35.55																												
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY None		12.EXPENDITURE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">216,046 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>186,641</td> </tr> </table>				Total	216,046 (¥000)	Contracted	186,641																					
Total	216,046 (¥000)																													
Contracted	186,641																													
12.EXPENDITURE																														

PROJECT SUMMARY (F/S)

Compiled Mar.1992
Revised Mar.1995

ASO IND/S 304/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1. COUNTRY	India	1. SITE OR AREA	New Mangalore Port			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled						
2. NAME OF STUDY	Improvement Plan of New Mangalore	2. PROJECT COST	1) Total Cost 76,521 2) Local Cost 49,460 3) Foreign Cost 27,061			(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. (FY1994 Domestic Survey) No additional information. (FY1994 Overseas Survey) 1) Maintenance of facilities relating to oil refinement and steam power plant 1. Maintenance of following oil facilities is in progress by Indian Oil Company, a semi-national firm. - alteration of existing berths for oil products to crude oil berths - construction of new berths for oil products(*) - extension/expansion of breakwaters(*) - expansion and deepening of navigation traffic routes(*) - expansion and deepening of anchorages - improvement of facilities - reinforcement of tugboats(*) (*) ordered after tenders 2. Funding L/A was concluded with SCICI, a semi-governmental financial corporation, at the price of US\$ 73 mil. Completion of the construction is scheduled in December 1996. Improvement of iron ore processing Realization delays after the detailed design due to a financial problem. Kudremukh Iron Ore Co. Ltd. (KIOCL), which determined to build iron ore handling berths, suspended the construction owing to expansion cost for development.							
3. SECTOR	Transportation/Port	3. CONTENTS OF MAJOR PROJECT(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										
4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 22.90 EIRR2) EIRR3)	FIRR1) 12.50 FIRR2) FIRR3)								
5. TYPE OF STUDY	F/S	8. DATE OF S/W		Mar. 1989									
6. COUNTERPART AGENCY	The Coordination Committee Government of India (Ministry of Surface Transport), Joint Secretary (Ports)	9. CONSULTANT(S)		Overseas Coastal Area Development Institute Yachiyo Engineering Co., Ltd.									
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	10. STUDY TEAM		No. of Members 12 Period Aug. 1989-Aug. 1990 (13 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">56.52</td> <td style="text-align: center;">26.22</td> <td style="text-align: center;">30.30</td> </tr> </table>		Total M/M	Japan	Field	56.52	26.22	30.30		
Total M/M	Japan	Field											
56.52	26.22	30.30											
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Wave observation, and current observation etc.	5. TECHNICAL TRANSFER		1) Counterpart training; 2) technical transfer by OJT		2. MAJOR REASONS FOR PRESENT STATUS							
12. EXPENDITURE	Total 219,260 (¥000) Contracted 224,275	3. PRINCIPAL SOURCE OF INFORMATION		①, ②, ③		It is integrated into the National Development Plan.							

和名 ニュー・マンガロール港改良計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar. 1993

Revised Mar. 1995

ASO IND/A 301/91

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"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled													
2. NAME OF STUDY		Command area Hardoi Branch Canal within Sharda Canal CAD Project																		
Irrigation and Drainage Development of Sharda Canal CAD Project		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost														
		(US\$1,000)	1)	129,386	107,336	22,046														
				2)																
				3)																
3. SECTOR		3. CONTENTS OF MAJOR PROJECT(S)				(Description) 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. (FY1994 Domestic Survey) Request from the State Government to the Central Government is not prepared yet.														
Agriculture/General		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. Crop Production Plan 6. Plan to Actualize Osrafandi																		
4. REFERENCE NO.																				
5. TYPE OF STUDY		F/S																		
6. COUNTERPART AGENCY		Ministry of Water Resources, Department of Area Development of Uttar Pradesh State Government.																		
7. OBJECTIVES OF STUDY		To formulate an optimum agricultural development plan for the selected areas in the command area of Sharda canal CAD Project.																		
8. DATE OF S/W		Apr. 1990																		
9. CONSULTANT(S)		Imp. Period: Jan. 1993-Dec. 1998																		
Nippon Koei Co., Ltd. Hokkaido Engineering Consultants Co., Ltd.		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 15.50 EIRR2) EIRR3)			FIRR1) FIRR2) FIRR3)												
10. STUDY TEAM		Conditions and Development Impacts: 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 style="text-align: left;">rice</td> <td style="text-align: center;">42,000</td> <td style="text-align: center;">101,000</td> </tr> <tr> <td style="text-align: left;">wheat</td> <td style="text-align: center;">64,500</td> <td style="text-align: center;">102,400</td> </tr> <tr> <td style="text-align: left;">pulses</td> <td style="text-align: center;">2,200</td> <td style="text-align: center;">15,900</td> </tr> <tr> <td style="text-align: left;">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 ⁶ . 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 nutritious 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
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																		
No. of Members 10 Period Sep. 1990-Jul. 1991 (11 months)																				
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Total M/M</th> <th style="text-align: center;">Japan</th> <th style="text-align: center;">Field</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">65.94</td> <td style="text-align: center;">26.78</td> <td style="text-align: center;">38.96</td> </tr> </tbody> </table>		Total M/M	Japan	Field	65.94	26.78	38.96													
Total M/M	Japan	Field																		
65.94	26.78	38.96																		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY						2. MAJOR REASONS FOR PRESENT STATUS														
						- 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.														
12. EXPENDITURE		5. TECHNICAL TRANSFER				3. PRINCIPAL SOURCE OF INFORMATION														
<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="text-align: left;">Total</td> <td style="text-align: right;">228,100 (¥'000)</td> </tr> <tr> <td style="text-align: left;">Contracted</td> <td style="text-align: right;">229,851</td> </tr> </tbody> </table>		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.				①										
Total	228,100 (¥'000)																			
Contracted	229,851																			

和名 シャルダ灌漑・排水事業整備計画

[F/S,D/D]

PROJECT SUMMARY (F/S)

Compiled Mar.1994
Revised Mar.1995

ASO IND/S 305/92

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 checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY Transport Infrastructure Development Project in Calcutta		Calcutta Metropolitan District					
3.SECTOR Transportation/Urban Transportaion		2.PROJECT COST		Total Cost	Local Cost		
		(US\$1,000)	1) 67,000 2) 3)	26,800	40,200		
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)		(Description) West Bengal Government will request Central Government to apply for OECF loan in this year. (The application already prepared) (FY1993 Overseas Survey) Application for the OECF assistance has been made by the Government of West Bengal through the Government of India. However, no further progress could be made. This Project has been included in the Eight 5-year plan of the Government of West Bengal. This Project aims at following points and to be expected very effective. 1)To increase extremely limited road capacity in the central area of Calcutta. 2)To arrange more efficient public transportation systems with bus service networks, and 3)To improve the accessibility of the central area of Calcutta and its linkages with surrounding areas of the metropolis including newly built second Hooghly bridge. (FY1994 Domestic Survey) No additional information.			
5.TYPE OF STUDY		At Grade Improvements - 4 Intersections Pedestrian Plaza - 1.5 kilometer					
6.COUNTERPART AGENCY							
7.OBJECTIVES OF STUDY							
To conduct a feasibility study on the transport infrastructure for the alleviation of traffic congestion in the study area							
8.DATE OF S/W		Imp. Period:					
Dec.1990		.1993~.1997					
9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility:	EIRR1) 18.40	FIRR1)	
Yachiyo Engineering Co., Ltd. Fukuyama Consultants International, Inc.		Yes		EIRR2)	FIRR2)		
		EIRR3)		FIRR3)			
10.STUDY TEAM		Conditions and Development Impacts: Direct benefit : Reduction of transport costs Indirect effects: 1) Decrease of traffic accidents 2) Improvement of air pollution 3) Decrease of the honking of vehicles 4) Increase of employment 5) Rebuilding of an old town area 6) Side-effects in better driver behaviour 7) Training better pedestrian behaviour at cross walks					
No.of Members 9							
Period Sep.1991-Feb.1992(13 months)							
Total M/M		Japan		Field		2.MAJOR REASONS FOR PRESENT STATUS	
37.28		17.91		19.37			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					
Traffic Survey, Topographin Surveu (4 km2), Soil Investigation (40m x 10 intersections) Underground Utilities, Survey (10 intersections)							
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION					
Total		①. ② Ministry of Transport, ③					
147,609 (¥'000)							
Contracted							
116,619							

PROJECT SUMMARY (F/S)

Compiled Mar.1986

Revised Mar.1995

ASE IDN/S 301/75

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"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Wonogiri Multipurpose Dam Project	Upstream area of Solo River Basin (Kab. Wonogiri), in Central Java Province					
3.SECTOR	Social Infrastructures/Water Resource Development	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description) Jan.1976 OECF loan agreement (E/S, 430 million yen) For the dam and the power plant Mar.1977 OECF loan agreement (E/S, 513 million yen) For irrigation development Jun.1977 E/S completed (the dam and the power plant) Aug.1977 OECF loan agreement (9,807 million yen) for the dam Feb.1979 OECF loan agreement (9,800 million yen) For irrigation development Dec.1978 OECF loan agreement (3,400 million yen) For the power plant Feb.1981 Construction of the dam completed (FY1994 Domestic Survey) No information.
4.REFERENCE NO.				1) 211,330	120,010	91,320	
5.TYPE OF STUDY	F/S			2) (US\$1,000)			
6.COUNTERPART AGENCY	Directorate General of Water Resources Development			3) (US\$1=415Rp)			
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.	3.CONTENTS OF MAJOR PROJECT(S)					
8.DATE OF S/W	.0	Imp. Period: Oct.1976-Nov.1983					
9.CONULTANT(S)	Nippon Koei Co., Ltd. CTI Engineering Co., Ltd. Japan Engineering Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 13.90 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM	No. of Members 20 Period Nov.1974-Oct.1975 (12 months) Total M/M Japan Field	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					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER					
12.EXPENDITURE	Total 136,361 (¥'000) Contracted 131,851	(1) On-the-job training (2) Counterpart training program (JICA) (3) Provision of equipment				2.MAJOR REASONS FOR PRESENT STATUS	
						3.PRINCIPAL SOURCE OF INFORMATION	①, ④

和名 ウオノギリ多目的ダム建設計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar.1976

Revised Mar.1995

ASE IDN/S 303/76

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"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY Central and East Java Road Betterment Project		Cilacap - Malang Corridor					
3.SECTOR Transportation/Road		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1)	53,000	33,000	20,000	
5.TYPE OF STUDY		(US\$1=415Rp)	2)				
6.COUNTERPART AGENCY Bina Marga (Directorate General of Highways, Ministry of Public Works)		3)	3.CONTENTS OF MAJOR PROJECT(S)				
7.OBJECTIVES OF STUDY Widening, overlay and realignment of roads		Improvement of road condition in four routes connecting Central and East Java provinces [Project Routes]				(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) (FY1994 Domestic Survey) No information.	
8.DATE OF S/W		ROUTE 1: Buntu - Pringsurat 145.2 km ROUTE 2: Salaman - Purworejo 27.2 km ROUTE 3: Surakarta - Wonogiri 32.2 km ROUTE 4: Ponorego - Biltar 117.5 km TOTAL 322.1 km					
9.CONCONSULTANT(S) Mitsui Consultants Co., Ltd.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 37.98 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)		
10.STUDY TEAM No. of Members 21 Period Nov.1975-Aug.1976 (10 months)		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.				2.MAJOR REASONS FOR PRESENT STATUS (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.	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		[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					
12.EXPENDITURE		5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION ①, ④	
Total 161,259 (¥'000)		Technical transfer by reception of trainees					
Contracted 105,197							

和名 中東部ジャワ道路改良計画

PROJECT SUMMARY (F/S)

Compiled Mar.1986

Revised Mar.1995

ASE IDN/S 302/76

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Indonesia	1. SITE OR AREA				I. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY Wongiri Irrigation and Upper Solo River Improvement Project		Surakarta Area (downstream reach at Wongiri 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. (FY1993 Overseas Survey) 1. In 1992 a working unit has been established by provincial government which was intended for undertaking operation & maintenance of right main canal of Wongiri Irrigation area. 2. Left main canal of Wongiri Irrigation is now under construction, and nearly completed. Upon completion of left main canal, the operation & maintenance will be handed over to provincial government. (FY1994 Domestic Survey) River improvement work has completed on Oct.1994.
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)		1) 277,080	174,130	102,950	
5. TYPE OF STUDY		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		2) 82,150	47,880	34,270	
6. COUNTERPART AGENCY		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		3) 63,180	35,480	27,700	
7. OBJECTIVES OF STUDY		3. Wogoniri 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					
8. DATE OF S/W		Imp. Period: Apr.1978-Oct.1983					
9. CONSULTANT(S)		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 12.10 EIRR2) 12.50 EIRR3) 11.70	FIRR1) FIRR2) FIRR3)	
10. STUDY TEAM		Conditions and Development Impacts:					
No. of Members 22 Period Jan.1976-Sep.1976 (7 months)		1. Primary benefits					
Total M/M Japan Field 91.22 42.20 49.02		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.					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		2) Flood control benefits: decrease of flood damage					
12. EXPENDITURE		3) Hydroelectric power benefits					
Total 164,779 (¥'000)		2. Secondary benefits					
Contracted 158,217		1) Economic benefits by fishery, recreations, tourism and water.					
		2) Foreign currency saving by the decrease of import 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					
				2. MAJOR REASONS FOR PRESENT STATUS			
				1. Large economic impact 2. High priority 3. Good financial position 4. Stable political background			
				3. PRINCIPAL SOURCE OF INFORMATION			
				①, ③, ④			

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,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1995

ASE IDN/A 301/76

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 checked="" type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled															
2. NAME OF STUDY Wonogiri Irrigation and Upper Solo River Improvement Project		Area with 5km wide and 60km long along the Solo river (population is 25 million centering on Surakarta city of Java island)																				
3. SECTOR Agriculture/General		2. PROJECT COST		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>1) 277,080</td> <td>174,130</td> <td>102,950</td> </tr> <tr> <td>US\$1=415Rp.</td> <td>2) 82,150</td> <td>47,880</td> <td>34,270</td> </tr> <tr> <td></td> <td>3) 63,180</td> <td>35,480</td> <td>27,700</td> </tr> </tbody> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 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) (FY1994 Domestic Survey) - Operation of the dam and irrigation facilities has been commenced immediately after teh completion and are well managed at present. A modification of a cropping pattern due to change of the government policy enabled saving of irrigation water. Therefore,GOI is extending the irrigation area by itself. (FY1994 Overseas Survey) - No additional information.
	Total Cost	Local Cost	Foreign Cost																			
(US\$1,000)	1) 277,080	174,130	102,950																			
US\$1=415Rp.	2) 82,150	47,880	34,270																			
	3) 63,180	35,480	27,700																			
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)																				
5. TYPE OF STUDY F/S		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: 1,950 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:																				
6. COUNTERPART AGENCY Ministry of Public Works, Directorate General of Water Resources Development		8. DATE OF S/W .0		Imp. Period: May.1977-Oct.1983		2. MAJOR REASONS FOR PRESENT STATUS																
7. OBJECTIVES OF STUDY		9. CONSULTANT(S) Nippon Koei Co., Ltd. CTI Engineering Co., Ltd. Japan Engineering Consultants Co., Ltd.		4. FEASIBILITY AND ITS ASSUMPTIONS																		
8. DATE OF S/W .0		Feasibility: Yes		<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>EIRR1</td> <td>12.10</td> <td>FIRR1</td> </tr> <tr> <td>EIRR2</td> <td>12.50</td> <td>FIRR2</td> </tr> <tr> <td>EIRR3</td> <td>11.70</td> <td>FIRR3</td> </tr> </tbody> </table>		EIRR1	12.10	FIRR1	EIRR2	12.50	FIRR2	EIRR3	11.70	FIRR3	3. PRINCIPAL SOURCE OF INFORMATION ①, ③, ④							
EIRR1	12.10	FIRR1																				
EIRR2	12.50	FIRR2																				
EIRR3	11.70	FIRR3																				
9. CONSULTANT(S) Nippon Koei Co., Ltd. CTI Engineering Co., Ltd. Japan Engineering Consultants Co., Ltd.		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																				
10. STUDY TEAM		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER																		
No. of Members 15 Period Jan.1976-Sep.1976 (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>91.22</td> <td>42.20</td> <td>49.02</td> </tr> </tbody> </table>		Total M/M	Japan					Field	91.22	42.20	49.02											
Total M/M	Japan	Field																				
91.22	42.20	49.02																				
12. EXPENDITURE		<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Total</td> <td>164,779 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>158,217</td> </tr> </tbody> </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,D/D)

PROJECT SUMMARY (M/P)

Compiled Mar.1986
Revised Mar.1995

ASE IDN/S 103/78

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 (FY1994 Domestic Survey) No additional information.
3.SECTOR	Tourism/(Tourism in)General		(US\$1,000)	1) 240,060		
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)		2)		
5.TYPE OF STUDY	M/P	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.				
6.COUNTERPART AGENCY	Department of Tourism, Post and Telecommunication, Directorate General of Tourism					
7.OBJECTIVES OF STUDY	Establishment of a basis for strategic tourism development in the North and West Sumatra provinces					
8.DATE OF S/W	Dec.1976					
9.CONSULTANT(S)	Nippon Koei Co., Ltd. Pacific Consultants International					
10.STUDY TEAM	No. of Members 19 Period May.1977-Apr.1978 (12 months)	4.CONDITIONS AND DEVELOPMENT IMPACTS	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.			
	Total M/M Japan Field					
	111.40 89.50 21.90					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY						
12.EXPENDITURE	Total 189,155 (¥'000) Contracted 175,082	5. TECHNICAL TRANSFER			(1) On-the-job training for local counterparts during the field work period (2) Training in Japan for 4 high official	
					2.MAJOR REASONS FOR PRESENT STATUS	
					3.PRINCIPAL SOURCE OF INFORMATION	①

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, Basic Study, Other}

PROJECT SUMMARY (F/S)

Compiled Mar.1986

Revised Mar.1995

ASE IDN/S 306/78

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 type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY Expansion Project of the Bitung Port		North Sulawesi Province, North part of Sulawesi island				
3.SECTOR Transportation/Port		2.PROJECT COST			(Description) The project was suspended. The review of the F/S was done by the World Bank in March 1988. (FY1993 Domestic Survey) A new feasibility study by JICA with a target year of 2000 commenced in September 1993 and will be concluded in March 1994. (FY1993 Overseas Survey) New F/S survey has been implemented by JICA. Final report is scheduled to be completed on March 1994. (FY1993 Overseas Survey) No additional information. (FY1994 Domestic Survey) No additional information.	
4.REFERENCE NO.		Total Cost Local Cost Foreign Cost				
5.TYPE OF STUDY		1) 21,422 10,433				
6.COUNTERPART AGENCY		2) (US\$1=415Rp)				
7.OBJECTIVES OF STUDY		3) (US\$1=415Rp)				
8.DATE OF S/W		3.CONTENTES OF MAJOR PROJECT(S)				
9.CONCONSULTANT(S)		Bitung Port is situated north of Sulawesi island, key point of local sea traffic. To handle 2.4 million tons in 1985, the following facilities are planned.				
10.STUDY TEAM		- Wharf L : 690m D : -5.5m				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		- Wharf L : 130m D : -3.0m				
12.EXPENDITURE		- Warehouse L : 15,650sq.m				
Total		- Road 44,100sq.m				
Contracted		Imp. Period: 1978-Dec.1984				
Total		4.FEASIBILITY AND ITS ASSUMPTIONS				
Contracted		Feasibility: EIRR1) 19.70 FIRR1)				
		Yes EIRR2) FIRR2)				
		EIRR3) FIRR3)				
		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.				
		5. TECHNICAL TRANSFER				
		Counterpart training				
		Training for the methods of the port planning was carried out at the site.				
		2.MAJOR REASONS FOR PRESENT STATUS				
		3.PRINCIPAL SOURCE OF INFORMATION				
		①, ②				

和名 ビトン港拡張計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar.1986

Revised Mar.1995

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				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Development Plan of the Port of Semarang	Central Java					
3.SECTOR	Transportation/Port	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1)	73,420	30,440		
5.TYPE OF STUDY	F/S	(US\$1=415Rp)	2)	120,160	37,940		
6.COUNTERPART AGENCY	Directorate General of Sea Communication		3)				
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	3.CONTENTS OF MAJOR PROJECT(S)				(Description)	
8.DATE OF S/W	.0	Plan					
9.CONSULTANT(S)	Overseas Coastal Area Development Institute Japan Port Consultants Co., Ltd. Pacific Consultants International	1.Wharf		High Projection	Low Projection	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 (FY1994 Domestic Survey) No additional information.	
10.STUDY TEAM	No. of Members 8 Period Sep.1977-Aug.1978(10 months)	Deep sea general cargo wharf		Cargo volume	870,000 t		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Length of wharf		Length of wharf	555 m	370 m	
12.EXPENDITURE	Total 101,886 (¥'000) Contracted 78,204	Number of wharfs		Number of wharfs	6	5	
		Regional harbor		Cargo volume	860,000 t	740,000 t	
		Cargo volume		Length of wharf	1,550 m	1,330 m	
		Length of wharf		Length of breakwater	4,550 m	4,550 m	
		2.Length of breakwater					
		4.FEASIBILITY AND ITS ASSUMPTIONS					
		Feasibility: Yes		EIRR1) 10.50	FIRR1) 2.90		
				EIRR2) 12.60	FIRR2) 3.40		
				EIRR3)	FIRR3)		
		Conditions and Development Impacts:				2.MAJOR REASONS FOR PRESENT STATUS	
		There are following conditions				Significance of the impact by the Project: Improve the foreign trade, economic development and economic stability of the area.	
		-Future Cargo volume is based on the Future GRDP of Central Java. The annual growth rate of the GDP estimated as follows.					
		1976 - 1978		1979 -			
		case 1 7.5%		7%			
		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					
		5. TECHNICAL TRANSFER				3. PRINCIPAL SOURCE OF INFORMATION	
		Counterpart training for the methods of the port planning and the industrial development planning was carried out at the site.				①, ④	

和名スマラン港開発計画(フェーズI)

{F/S,D/D}

PROJECT SUMMARY (F/S)

Compiled Mar.1986
Revised Mar.1992

ASE IDN/S 308/78

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"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Hospital Facilities Improvement Project	2.PROJECT COST				
3.SECTOR	Social Infrastructures/Architecture & Housing	3.CONTENTS OF MAJOR PROJECT(S)	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			(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)
4.REFERENCE NO.		7.OBJECTIVES OF STUDY				
5.TYPE OF STUDY	F/S	8.DATE OF S/W	.0			2.MAJOR REASONS FOR PRESENT STATUS 3.PRINCIPAL SOURCE OF INFORMATION ①④
6.COUNTERPART AGENCY	Ministry of Health	9.CONSULTANT(S)				
		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
		Conditions and Development Impacts: The proposed project will contribute to the improvement of medical services and hospital facilities.				
10.STUDY TEAM		5.technical transfer				
No.of Members 8 Period Apr.1978-Oct.1978(7 months) Total M/M Japan Field						
11.associated and/or subcontracted study						
12.expENDITURE						
Total 21,874 (¥'000) Contracted						

PROJECT SUMMARY (Basic Study)

Compiled Mar.1990
Revised Mar.1995

ASE IDN/A 501/78

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 <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued				
2.NAME OF STUDY	Forest Inventory for Management and Logging in Central Java	2.PROJECT COST				Total Cost	Local Cost	Foreign Cost	(Description) The technical cooperation for mountain logging practice project in Java was started in 1983 and complete in 1985. (FY1994 Domestic Survey) No information. (FY1994 Overseas Survey) Perum Perhutani conducted "Mountain Logging Practice" from 1982 to 1986. Since then, due to the change of the government policy, the area to provide raw material for pulp has moved from Central Java to Aceh and North Sumatra.		
3.SECTOR	Forestry/Forestry & Forest Conservation		(US\$1,000)	1)	2)						
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)									
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	Aerial photography was implemented over the subject area of merkusi pine plantation under the jurisdiction of Pekalongan District Forestry Office, where located at Central Java Province of Indonesia. Using the aerial photos, aerial photo-interpretation on forest types and sample plot survey were conducted. After all the photo stand volume table was prepared.									
7.OBJECTIVES OF STUDY	(To establish the inventory method of merkusi pine forest)	4.CONDITIONS AND DEVELOPMENT IMPACTS									
8.DATE OF S/W	Dec.1976	The forest resources inventory work on the merkusi pine plantation of the District Forestry Office became necessary since the paper manufacturing factory planned assumes the site as one of the material supply sources. The forest resources inventory enables the precise estimation of material supply capacity of the subject area at present and in the future. Especially information on the distribution of forest resources using forest types interpretation, and evaluation of land productivity, will definitely contribute to formulation of the further development plan of the merkusi pine plantation.									
9.CONSULTANT(S)	Japan Forest Technical Association Kokusai Kougyo Co., Ltd.	Not only developing log supply, it also leads to develop the production of by-products such as pine resin, which would economically contribute to the management of the District Forestry Office after all. Besides those such activities would have positive impact on development of employment opportunity for local inhabitants.									
10.STUDY TEAM	No.of Members 14 Period Nov.1976-Mar.1978(16 months)				2.MAJOR REASONS FOR PRESENT STATUS						
	<table style="margin-left: auto; margin-right: auto;"> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> <tr> <td>28.00</td> <td>20.00</td> <td>8.00</td> </tr> </table>	Total M/M	Japan	Field	28.00	20.00	8.00				
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	Total 96,770 (¥000) Contracted 69,451	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			①, ③						

和名 中部ジャワ州パカロンガン林業資源調査

(M/P,Basic Study,Other)

PROJECT SUMMARY (Other)

Compiled Mar. 1990
Revised Mar. 1992

ASE IDN/S 604/78

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		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		6. MAJOR REASONS FOR PRESENT STATUS				
8. DATE OF S/W		7. PRINCIPAL SOURCE OF INFORMATION				
9. CONSULTANT(S)		①				
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, Basic Study, Other}

PROJECT SUMMARY (M/P)

Compiled Mar.1986

Revised Mar.1995

ASE IDN/S 104/79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS																
1.COUNTRY	Indonesia	1.SITE OR AREA	18 major shipbuilding yards in Indonesia		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued															
2.NAME OF STUDY	Shipbuilding Industry Development	2.PROJECT COST				<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%; text-align: center;">Total Cost</td> <td style="width: 10%; text-align: center;">Local Cost</td> <td style="width: 10%; text-align: center;">Foreign Cost</td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">474,000</td> <td></td> </tr> <tr> <td style="text-align: center;">(US\$1=415Rp)</td> <td style="text-align: center;">2)</td> <td></td> <td></td> </tr> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)	474,000		(US\$1=415Rp)	2)			
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	1)	474,000																		
(US\$1=415Rp)	2)																			
3.SECTOR	Transportation/Marine Transportation & Ships	3.CONTENTES OF MAJOR PROJECT(S)	(Description) Among the 18 major shipbuilding yards examined by the study, a feasibility study was conducted on the Makassar Shipyard (FY1980). (FY1994 Domestic Survey) No information.																	
4.REFERENCE NO.		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)																		
5.TYPE OF STUDY	M/P	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.	2.MAJOR REASONS FOR PRESENT STATUS																	
6.COUNTERPART AGENCY	Directorate General of Sea Communications, Ministry of Communications, and Directorate General of Basic Metal and	4.CONDITIONS AND DEVELOPMENT IMPACTS			The proposed project will induce increased production, savings of foreign exchange, creation of employment opportunities and regional development.															
7.OBJECTIVES OF STUDY	Examination of and advice on the needs of rehabilitation and new construction	5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION ①																	
8.DATE OF S/W	.0	12.EXPENDITURE			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%; text-align: center;">Total</td> <td style="width: 10%; text-align: center;">68,785 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">42,575</td> <td></td> </tr> </table>			Total	68,785 (¥'000)	Contracted	42,575									
	Total	68,785 (¥'000)																		
Contracted	42,575																			
9.CONSULTANT(S)	The Shipbuilding Research Centre of Japan	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">10.STUDY TEAM</td> <td style="width: 15%;">No.of Members 14</td> <td style="width: 15%;">Period Sep.1977-Nov.1977 (8 months)</td> <td style="width: 15%;"></td> </tr> <tr> <td></td> <td>May.1978-Dec.1978</td> <td></td> <td></td> </tr> <tr> <td></td> <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></td> <td style="text-align: center;">21.33</td> <td style="text-align: center;">16.00</td> <td style="text-align: center;">5.33</td> </tr> </table>		10.STUDY TEAM	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
10.STUDY TEAM	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																	

和名 造船振興計画

[M/P,Basic Study,Other]

PROJECT SUMMARY (M/P)

Compiled Mar.1986

Revised Mar.1995

ASE IDN/S 107/79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS																															
1.COUNTRY	Indonesia	1.SITE OR AREA	The area centered by Lake Tempe, south Sulawesi		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued																														
2.NAME OF STUDY	Central South Sulawesi Water Resources Development Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) 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 (OECP loan 320 million yen) Nov. 1987 Construction started (OECP 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 (OECP loan 550 million yen) Feb. 1992 1st stage construction started (OECP loan 6.46 billion yen) Jan. 1993 2nd stage construction started (OECP 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) (FY1994 Domestic Survey) JICA started F/S study (Gilirang irrigation project) in Feb.1994.																														
3.SECTOR	Social Infrastructures/Water Resource Development	(US\$1,000)	1) 340,400	2)																																
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)																																		
5.TYPE OF STUDY	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: Walimpong dam (Rockfill dam, height-62m, crest length-900m) - Hydro-electric power: Walimpong hydro-electric power station (output:8,600kw, 70GW/year) - Sabo: Sabo dam 12 plots, compacting plots-about 140. The total cost above only pertains to the irrigation development.																																		
6.COUNTERPART AGENCY	Directorate of Planning and Programming	4.CONDITIONS AND DEVELOPMENT IMPACTS																																		
7.OBJECTIVES OF STUDY	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.																																		
8.DATE OF S/W	Oct.1976	10.STUDY TEAM			2.MAJOR REASONS FOR PRESENT STATUS																															
9.CONSULTANT(S)	Nippon Koei Co., Ltd. Mitsui Consultants Co., Ltd. System Science Consultants Nikken Consultants., Inc.																																			
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">No. of Members</td> <td style="width: 15%;">36</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td>Period</td> <td>Dec.1976-Jun.1978(39 months)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Aug.1978-Mar.1980</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">258.91</td> <td style="text-align: center;">81.60</td> <td style="text-align: center;">177.31</td> <td></td> </tr> </table>			No. of Members	36					Period	Dec.1976-Jun.1978(39 months)						Aug.1978-Mar.1980							Total M/M	Japan	Field				258.91	81.60	177.31			
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		Total M/M	Japan	Field																																
		258.91	81.60	177.31																																
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Aerial Photography	5.TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION																															
12.EXPENDITURE					①, ④																															
	Total	673,876 (¥'000)																																		
	Contracted	643,458																																		

PROJECT SUMMARY (F/S)

Compiled Mar.1986

Revised Mar.1995

ASE IDN/S 309/79

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"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled			
2.NAME OF STUDY		Kalimantan, East Kalimantan Province					
Expansion Project of the Port of Balikpapan		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)	1)	20,888	8,686		
		(US\$1=625Rp)	2)				
			3)				
3.SECTOR		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 (FY1993 Overseas Survey) Construction complete (1991-1993) Investment cost is Rp. S.246,606,000 (FY1994 Domestic Survey) Requested ADB Loan (90mil. US\$, Surabaya and Eastern Local Ports and harbors Development).	
Transportation/Port		As the short-term development plan, following facilities are planned.					
4.REFERENCE NO.		- Wharf for foreign trade 330m					
5.TYPE OF STUDY		- Wharf for small vessels 75m					
F/S		- Jetty 50m					
6.COUNTERPART AGENCY		- Reclamation 905,000sq.m					
Directorate General of Sea Communication		- 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		Imp. Period: Oct.1981-Dec.1984					
Dec.1978		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: EIRR1) 13.40 FIRR1) 10.00			
9.CONSULTANT(S)		Overseas Coastal Area Development Institute		Yes EIRR2) FIRR2)			
				EIRR3) FIRR3)			
10.STUDY TEAM		Conditions and Development Impacts:					
No.of Members 6		Cargo volume in the port was forecasted 10,500 thousand tons in 1985 and 16,900 thousand tons in 2000.					
Period Jan.1979-Nov.1979 (10 months)		Hinterland of the port will be estern Kalimantan and central Celebes as a foreign trade port, Balikpapan city, and Aurrounding villages as a domestic port.					
Total M/M		Japan		Field			
44.51		34.84		9.67			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS	
		Counterpart training					
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION					
Total		99,579 (*000)				①. ②	
Contracted		86,160					

和名 バリクババン港港湾整備計画

[F/S,D/D]