

II . SUMMARY TABLES (813 Studies)

PROJECT SUMMARY (D/D)

Compiled Mar.1990
Revised Mar.1995

ASO BGD/S 401/77

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Bangladesh	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="radio"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Partially Completed <input type="checkbox"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY	Television Studio Construction Project	Dhaka City						
3.SECTOR	Communications & Broadcasting/Broadcasting	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost		
4.REFERENCE NO.		(US\$1,000)	1)	4,708				
5.TYPE OF STUDY	D/D	(US\$1=240yen)	2)					
6.COUNTERPART AGENCY	Ministry of Information and Broadcasting		3)					
7.OBJECTIVES OF STUDY	Detailed design of an auditorium for the television studio	3.CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1991 Overseas Survey) No information is available. (FY1993 Domestic Survey) As of March 1982, the construction of the auditorium was completed and educational programmes were produced therein. (Information on the fund source is not available.) (FY1994 Domestic Survey) No additional information.		
8.DATE OF S/W	Apr.1977	Detailed Design for a four-story auditorium(total flour area : 3,926m ²) located at Dhaka City is to be carried out for the purpose of spreading education as well as advancing culture of Bangladesh. Main facilities are mentioned as follows;						
9.CONSULTANT(S)	Japan Engineering Consultants Co., Ltd.	I.Architecture (Main Rooms) 1)Audience seats area 530m ² 2)Stage 660m ² 3)Sub-Control Room 64m ² 4)Projector Room 19m ² 5)Offices 39m ² 6)Canteen 76m ² 7)Air-conditioningRoom 384m ²						
10.STUDY TEAM	No.of Members 7 Period Jul.1977-Mar.1978(8 months)	II.Building Equipment Work 1)Plumbing & Sanitary Installation 2)Electrical Installaton 3)Air-conditioning Installation						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Total M/M Japan Field	III.Broadcasting Facilities 1)Program Production Facilities 2)Stage & Lighting Facilities 3)Public Addressing Facilities & Others						
12.EXPENDITURE	Total 77,992 (¥'000) Contracted	IV.Structure Reinforced concrete(Procenium Arch:Combination structure)						
		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)			FIRR1) FIRR2) FIRR3)
		Conditions and Development Impacts: I.Prior Conditions 1)No inflation is not considered. 2)Exchange Rate : TK1.00=16Yen 3)Materials : Aggregates and bricks shall be supplied in Bangladesh Most of others shall be imported from Japan 4)Temporary Work : Machine and tools including generators, welding machines, unit steel scaffolds, truck cranes, etc. shall be brought into Bangladesh from Japan. II.Development Impacts. The use of the above auditorium for the following purposes will contribute to spreading and education, advancing culture of Bangladesh, and in its twin developing the society and economy. 1)National occasion,conference,TV dramas,viewer participation shows folk music,etc. 2)Movie projection,educational programme production,etc.						
		5.technical transfer		2.MAJOR REASONS FOR PRESENT STATUS				
		3.PRINCIPAL SOURCE OF INFORMATION						①, ②

和名 テレビジョンスタジオ建設計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar.1990

Revised Mar.1995

ASO BGD/A 301/79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Bangladesh	1. SITE OR AREA	Project area: 24km east from Dacca covering a gross area of 59,600ha			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 Narayanganj-Narsingdi Irrigation Project		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description) 1. Demonstration Unit in the southern part Oct.1981 E/N of Japanese Grant signed (840 million yen) Mar.1984 Construction over 1,300 ha completed (Chuo Kaihatsu Corp.) 2. Construction of Irrigation Facilities Jan.1988 E/N of Japanese Grant signed (105 million yen) Sep.1988 E/N of Japanese Grant signed (536 million yen) Mar.1992 Construction over 2,230 ha completed (Japan Engineering Consultants Co.) Feb.1989 E/N of Japanese Grant signed (76 million yen) Jun.1990 E/N of Japanese Grant signed (1,796 million yen) Aug.1991 E/N of Japanese Grant signed (977 million yen) (FY1991 Overseas Survey) The project implementation was delayed owing to the difficulty of purchasing land. (FY1993 Overseas Survey) Implementation period is scheduled from Sept.,1990 to the end of March,1993. Implementation cost is 11,390.22 Taka(including F.E. 8,201.78 Taka). Communication of Project area is much developed, and the peoples in the locality is now cultivating three crops in a year. Although before the Project implementation, only one crop was cultivated in a year. The technology transfer is appreciated as it is very useful and appropriate. (FY1994 Domestic Survey) After one year extension of the plan, the construction has completed on March, 1993.
3. SECTOR Agriculture/General		3. CONTENTS OF MAJOR PROJECT(S)		60,700	29,600	31,100	
4. REFERENCE NO.		1. FLOOD PROTECTION EMBANKMENT					
5. TYPE OF STUDY F/S		New Dike 35.0 km Additional Embankment 24.1 km					
6. COUNTERPART AGENCY Bangladesh Water Development Board(BWDB)		2. NO.1 PUMPING STATION AREA (13,100ha)					
7. OBJECTIVES OF STUDY Rice product increase through the improvement of irrigation, drainage and flood control		Pumping Station diameter 1,650 mm X 6 NOS. Irrigation Canal 168.7 km Drainage Canal 10.0 km					
8. DATE OF S/W Mar.1977		3. NO.2 PUMPING STATION AREA (13,400ha)					
9. CONSULTANT(S) Japan Engineering Consultants Co., Ltd.		Pumping Station diameter 1,650 mm X 6 NOS. Irrigation Canal 186.8 km Drainage Canal 13.7 km					
10. STUDY TEAM No. of Members 10 Period Jul.1977-Jul.1978(12 months)		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 14.90 EIRR2) 20.20 EIRR3)	FIRR1) FIRR2) FIRR3)	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts: Conditions: Benefit by the increase of net agricultural products Development Impacts: Increase of agricultural products and employment opportunity				2. MAJOR REASONS FOR PRESENT STATUS	
12. EXPENDITURE		5. TECHNICAL TRANSFER				3. PRINCIPAL SOURCE OF INFORMATION	
Total 119,306 (¥'000)		OUT				①, ② BWDB	
Contracted 109,935							

和名 N-N地区かんがい計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar. 1988

Revised Mar. 1995

ASO BGD/S 301/84

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1. COUNTRY	Bangladesh	1. SITE OR AREA				1. PRESENT STATUS							
2. NAME OF STUDY		Road between Dhaka and Chittagong											
Meghna-Gumti Bridges Construction Project		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost							
		(US\$1,000)	1) 66,000	37,000									
		(US\$1=230Yen)	2)										
		3)											
3. SECTOR		3. CONTENTS OF MAJOR PROJECT(S)											
Transportation/Road		The Meghna River (about 830m wide) and the Meghna-Gumti River (about 1,360m wide) cross the Dhaka-Chittagong Highway about 25km and 40km east of Dhaka, respectively, where the Roads and Highways Department (RHD) provides mechanised ferry services. As the waiting time of vehicles for the ferries has increased, RHD has expanded the ferry arrangements to accommodate the increased traffic demand. However the necessity of ferry improvements will arise with the continuously increasing traffic. It is urgent to construct two bridges across these rivers which will complete the 380km long Aricha-Dhaka-Chittagong Highway and the Dhaka-Chittagong Highway will be connected with the land transportation. The bridges are Meghna Bridge 930m and Meghna Gumti Bridge 1,480m respectively.											
4. REFERENCE NO.													
5. TYPE OF STUDY								F/S					
6. COUNTERPART AGENCY								Roads and Highway Dept., MOC					
7. OBJECTIVES OF STUDY		Construction of bridges											
8. DATE OF S/W		Dec. 1983		Imp. Period: Mar. 1987-Feb. 1991									
9. CONSULTANT(S)		Pacific Consultants International Nippon Koei Co., Ltd.		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes							
				EIRR1)	12.40	FIRR1)							
				EIRR2)		FIRR2)							
				EIRR3)		FIRR3)							
10. STUDY TEAM		Conditions and Development Impacts:											
No. of Members 11		On the assumption that the two bridges are constructed. By construction of these two bridges, people will be able to make a day's trip between Dhaka and Chittagong which is the second largest city of the Bangladesh with an international seaport.											
Period Feb. 1984-Mar. 1985 (14 months)													
Total M/M		Japan	Field										
47.01		13.78	33.23										
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY													
12. EXPENDITURE		5. TECHNICAL TRANSFER											
Total		194,993 (¥000)		1) Overseas training for 2 counterparts; 2) Employment of local consultants (for the D/D); and 3) Supply of equipment and guidance (Boring machine for geological investigation)									
Contracted		156,339											
		(Description) (1) Meghna Bridge: Length 930m Apr. 1985 E/N of grant aid signed (191 million yen) Oct. 1986 E/N of grant aid signed (1,195 million yen) Aug. 1987 E/N of grant aid signed (1,986 million yen) Sep. 1988 E/N of grant aid signed (1,999 million yen) Jul. 1989 E/N of grant aid signed (1,935 million yen) Jun. 1990 E/N of grant aid signed (841 million yen) (FY1991 Overseas Survey) (1) Meghna Bridge: Mar. 1987-Feb. 1991 Construction works Feb. 1991 Construction completed May 1991 Opening Ceremony was held. (2) Meghna-Gumti Bridge 1991 E/N of grant aid signed (8,203 million yen) Mar. 1993 Under construction (FY1993 Overseas Survey) The Feasibility Study conducted from March to November, 1984 was very useful from the technical points of view and with good timing. In future, it will be requested more involvement of local Technicians/Engineers to learn from Japanese Experts and more training in Japan. (FY1994 Domestic Survey) Nov. 1994 The opening Ceremony was held.											
		2. MAJOR REASONS FOR PRESENT STATUS											
		This project is ranked as top priority in the 5th National Five Year Plan.											
		3. PRINCIPAL SOURCE OF INFORMATION											
		(1), (2) Road and Highway Dept., MOC											

和名 メグナ・メグナグムティ橋建設計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar.1988
Revised Mar.1995

ASO BGD/S 302/85

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Bangladesh	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 Establishment of Railway Carriage and Wagon Manufacturing Plant		Parbatipur in Town, Dinajpur District					
3. SECTOR Transportation/Railway		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4. REFERENCE NO.		(US\$1,000)	1)	122,000	59,000	63,000	
5. TYPE OF STUDY				2)			
6. COUNTERPART AGENCY Bangladesh Railway				3)			
7. OBJECTIVES OF STUDY F/S for a passenger and freight car manufacturing workshop for Bangladesh Railway		3. CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1991 Overseas Survey) From July through September 1987, Bangladesh was hit by a flood, the severest one in 40 years. As a result, railway routes were disrupted in many places and cut at more than 300 sections. Although efforts were made for the restoration, damages were caused again in 1991 by a cyclone. Under such circumstances, this project is now in suspension. No aid is given to this sector by the World Bank and the other donor agencies, because this sector holds problems in management. (FY1993 Overseas Survey) Suspended/Discontinued due to the changes of development policy in terms of the priority and the problems of financing. The transferred technology was appropriate and useful. (FY1994 Domestic Survey) No information.	
8. DATE OF S/W		1. Manufacturing workshop for passenger and freight cars (annual production): Total area---239,000sqm Passenger cars---120 Freight cars---900					
9. CONSULTANT(S) Japan Railway Technical Service		2. Administrative offices and other necessary facilities: Houses for personnel---1,300					
10. STUDY TEAM		Imp. Period: Jan.1989-Dec.1996					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY None		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 9.42 EIRR2) EIRR3)	FIRR1) 10.63 FIRR2) FIRR3)	
12. EXPENDITURE		Conditions and Development Impacts: 1. Preconditions 1) Car Production(yearly): 120 passenger cars and 900 freight cars 2) Construction site: South side of Parbatipur 3) Project life: 1986-2020(33 years) 2. Development impacts 1) Reduction in outflow of foreign currency due to imports. 2) Development of regional industries and creation of employment opportunities. 3) Stabilization of basic transport 4) Elevation of technical standards including those of related private industries					
Total		132,375 (¥000)					
Contracted		125,519					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				2. MAJOR REASONS FOR PRESENT STATUS	
None		One counterpart received training from JICA.				- Shortage of domestic funds - Repeated natural disasters - Donors' reluctance to finance the project	
12. EXPENDITURE						3. PRINCIPAL SOURCE OF INFORMATION	
Total						①、② Bangladesh Railway	
Contracted							

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1990

Revised Mar.1995

ASO BGD/S 201B/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT					
1.COUNTRY	Bangladesh	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY	Development Project of Dhaka and Narayanganj Ports	Ports at Dhaka and Narayanganj									
3.SECTOR	Transportation/Port	2.PROJECT COST		M/P 1) 56,800 Local Cost	Foreign Cost	(Description) The government is preparing a request for a yen loan. The Planning Commission of the Government of Bangladesh instructed BIWTA to prepare a project paper for the combination of Cargo Handling Facilities and Container Terminal Projects in April 1991. The request for the OECF Loan of FY1992 of GOJ has been submitted to GOJ by GOB at the end of October 1991. As of Mar.1994: The Government of Bangladesh has decided to implement the Development Project of Dhaka Port, combining this project and the Development Project of Container Terminal at Dhaka-Narayanganj Port. The OECF carried out a project formation promoting survey during Sep.- Nov.,1992, dispatched an appraisal mission and agreed on the minutes of E/S in Dec. 1992. OECF signed L/A on Dhaka Port Development Project (179 million yen, E/S). By this loan, review of the previous study, D/D and cost estimation are to be conducted. Completed to conclude an agreement with a contractor based on D/D. The ground was acquired. (FY1992 Overseas Survey) Waiting for the answer. (FY 1993 Domestic Survey) Nov., 1992, despatched an appraisal mission and agreed on minutes of E/S in Dec. 1992. Then, L/A was included. As of Dec. 1993: Proposals for the E/S will be submitted to BIWTA FROM CONSULTANTS BY THE END OF Jan. 1994 based on the announcement of the tender schedule from BIWTA. (FY1993 Overseas Survey) Phase 1 is now implementing by the fund from OECF ; - Oct.1994 to Jul.1995-D/D for container wharf will be made with a budget of 211 million Yen(foreign currency 1.79 million Yen). - Aug.1995 to Jun.1998-Construction will be carried out with a budget of 8,304 million Yen (foreign currency 7,092 million Yen). Top priority is given by Government, following the world trend to the containerization. The transferred technology was appropriate and useful with the good timing. (FY1994 Domestic Survey) No additional information.					
4.REFERENCE NO.		2) (US\$1,000) 9,619		3) 3,180							
5.TYPE OF STUDY	M/P+F/S	3.CONTENTS OF MAJOR PROJECT(S)									
6.COUNTERPART AGENCY	Bangladesh Inland Water Transport Authority	<M/P> The study identified the long-term development plan ending 2005 with the following proposals. - 12 wharves for general cargo - 4 wharves for containerized cargo - Passenger terminal for medium- to long-distance travels to alleviate the congestion of the existing terminal <F/S> The short-term development plan: - 4 floating wharfs for general cargo - 2 warehouses - open yard, and access roads - new handling equipment									
7.OBJECTIVES OF STUDY	Formulation of a development plan including expansion and re-allocation of the present facilities	Imp. Period: May.1985-1991 4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes EIRR1) 17.80 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)									
8.DATE OF S/W	Jul. 1985	10.STUDY TEAM No.of Members 9 Period Jan.1986-Oct.1987(22 months) <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td style="text-align: center;">52.51</td> <td style="text-align: center;">27.33</td> <td style="text-align: center;">25.18</td> </tr> </table>				Total M/M	Japan	Field	52.51	27.33	25.18
Total M/M	Japan					Field					
52.51	27.33	25.18									
9.CONSULTANT(S)	Overséas Coastal Area Development Institute	<M/P>Development Impacts: - To smooth the function of port and to strengthen the function of cargo transportation - Support for the future urban development <F/S> - No investment for expansion of the existing facilities - Cargo above the available capacity is transferred to the other transportation means. Development impacts: - Reduction of costs of waiting - Reduction of total transportation costs - Reduction of cargo handling costs by the introduction of fork lifts - Reduction of damages and pilfering of cargo									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS					
12.EXPENDITURE	Total 156,692 (¥'000) Contracted 158,599	Prepared a report in cooperation with counterpart.				3.PRINCIPAL SOURCE OF INFORMATION					
						①、② Bangladesh Inland Water Transport Authority					

PROJECT SUMMARY (F/S)

Compiled Mar. 1990

Revised Mar. 1992

ASO BGD/A 302/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																																									
1. COUNTRY	Bangladesh	1. SITE OR AREA	Whole area: 72,270 ha in northwest of Rajshahi City Irrigable area: 51,200 ha out of the whole 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	North Rajshahi Irrigation Project	2. PROJECT COST	1) Total Cost 151,000	2) Local Cost 79,800	3) Foreign Cost 71,200																																																										
3. SECTOR	Agriculture/General	3. CONTENTS OF MAJOR PROJECT(S)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Intake Capacity (m³/sec)</th> <th>Diameter (mm)</th> <th>Type of Pump Unit</th> <th>Pumping Capacity (m³/sec)</th> <th>Motor Output (Kw/Unit)</th> <th>Main Canal (Km)</th> <th>Branch Canal (Km)</th> </tr> </thead> <tbody> <tr> <td>Barindo district</td> <td>44.24</td> <td></td> <td></td> <td></td> <td></td> <td>49</td> <td>445</td> </tr> <tr> <td>Vertical</td> <td></td> <td>1,650</td> <td>4</td> <td>6.65</td> <td>2,390</td> <td></td> <td></td> </tr> <tr> <td>Mixed</td> <td></td> <td>1,350</td> <td>4</td> <td>4.00</td> <td>1,460</td> <td></td> <td></td> </tr> <tr> <td>Paba district</td> <td>9.44</td> <td></td> <td></td> <td></td> <td></td> <td>14</td> <td>82</td> </tr> <tr> <td>Vertical</td> <td></td> <td>1,350</td> <td>1</td> <td>4.12</td> <td>720</td> <td></td> <td></td> </tr> <tr> <td>Mixed</td> <td></td> <td>1,000</td> <td>2</td> <td>2.07</td> <td>370</td> <td></td> <td></td> </tr> </tbody> </table>					Intake Capacity (m ³ /sec)	Diameter (mm)	Type of Pump Unit	Pumping Capacity (m ³ /sec)	Motor Output (Kw/Unit)	Main Canal (Km)	Branch Canal (Km)	Barindo district	44.24					49	445	Vertical		1,650	4	6.65	2,390			Mixed		1,350	4	4.00	1,460			Paba district	9.44					14	82	Vertical		1,350	1	4.12	720			Mixed		1,000	2	2.07	370			(Description) In 1990, the Government of Bangladesh requested for an OECF loan to implement the irrigation development over 9,000 ha, but the OECF survey mission concluded that the project was premature for financing. (FY1991 Overseas Survey) The economic viability of large-scale pump irrigation schemes are increasingly considered doubtful vis-a-vis the country's vulnerability to frequent floods. Other agricultural projects under implementation elsewhere are encountering the difficulty of purchasing land for irrigation development. The Government of Bangladesh thus withdrew the OECF application for the proposed project.
	Intake Capacity (m ³ /sec)	Diameter (mm)	Type of Pump Unit	Pumping Capacity (m ³ /sec)	Motor Output (Kw/Unit)	Main Canal (Km)	Branch Canal (Km)																																																								
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4. REFERENCE NO.		7. OBJECTIVES OF STUDY	Feasibility study on the improvement of invigation and drainage systems including agricultural plan																																																												
5. TYPE OF STUDY	F/S	8. DATE OF S/W	Feb. 1987		Imp. Period:	Jul. 1987-Jun. 1988																																																									
6. COUNTERPART AGENCY	Bangladesh Water Development Board (BWDB)	9. CONSULTANT(S)	Sanyu Consultants Inc. Taiyo Consultants Co., Ltd.		4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes EIRR1) 18.40 FIRR1) 13.60 EIRR2) FIRR2) EIRR3) FIRR3)																																																									
10. STUDY TEAM	No. of Members 12 Period Jul. 1987-Jun. 1988 (11 months)	Conditions and Development Impacts: The project will increase the rice production in the whole project areas from 58,000 ton/year to 303,000 ton/year, which is about 4.9 times as much as the present situation. This is caused by all-year-round irrigation and improvement of farming technology. Apart from this, wheats, vegetables and sugar canes will be improved in their production amount. These production increase results in the improvement of typical farmers' (farming scale, 1.7 ha) income from 21,000 Tak/year of without-project case to 58,000 Tak/year of with-project case, which is about 2.76 times.																																																													
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total M/M</td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> </tr> <tr> <td style="text-align: center;">74.74</td> <td style="text-align: center;">32.15</td> <td style="text-align: center;">42.59</td> </tr> </table>		Total M/M	Japan	Field	74.74	32.15	42.59	5. TECHNICAL TRANSFER				2. MAJOR REASONS FOR PRESENT STATUS																																																			
Total M/M	Japan	Field																																																													
74.74	32.15	42.59																																																													
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		The technical transfer was given in the joint field survey with counterpart staffs and two of them were invited to the seminar in Japan.				Supply of electricity to the large-scale pump facilities in the project was a main barrier to the realization of the project.																																																									
12. EXPENDITURE								3. PRINCIPAL SOURCE OF INFORMATION																																																							
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">222,324 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>211,428</td> </tr> </table>		Total	222,324 (¥'000)	Contracted	211,428			①②																																																							
Total	222,324 (¥'000)																																																														
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和名 ラジシャヒ北部かんがい計画

(F/S,D/D)

PROJECT SUMMARY (M/P)

Compiled Mar.1991
Revised Mar.1995

ASO BGD/A 101/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1. COUNTRY	Bangladesh	1. SITE OR AREA	Homna Sub-district and Daudkandi Sub-district			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Model Rural Development Project for Homna and Dandkandi Upazila Comilla District.	2. PROJECT COST				(US\$1,000)	1) Total Cost 121,000
3. SECTOR	Agriculture/General	3. CONTENTS OF MAJOR PROJECT(S)	(Description) The project was implemented as a grant aid. (by Taiyo Consultants Co., Ltd.) (FY1991 Overseas Survey) The Government of Bangladesh has applied for a grant aid. The B/D was conducted in the first half of the year 1991. The E/W (Phase I) of the grant aid was signed in Feb. 1992. (FY1993 Overseas Survey) Hoping to be supplied following items : 1) Provision of seed capital on grant for revolving fund, 2) Provision of transport/vehicles for the Project, 3) Arrangement of training fund for the Project Staff and beneficiaries should be made in the Japanese grant aid system, and 4) Provision of residential accommodation for the trainees, office, godown, guard office, garage and connecting access roads. (FY1994 Domestic Survey) The Phase I has been completed.				
4. REFERENCE NO.		The Model Rural Development Project for Homna and Daudkandi Upazilas is aimed to increase employment opportunities and incomes of rural poor through expanded production in agriculture, inland fisheries and rural industries. For this end, the Project constructs the following infrastructures and undertakes measures for strengthening and modernization of cooperatives.					
5. TYPE OF STUDY	M/P	(1) UCCA related works					
6. COUNTERPART AGENCY	LGEB BRDB	- UCCA building 2 nos					
7. OBJECTIVES OF STUDY	To formulate a master plan on the model rural development for Comilla District	- Agriculture Modernization Center 2 nos					
8. DATE OF S/W	Feb. 1988	- Inland Fish Center 2 nos					
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Taiyo Consultants Co., Ltd.	- Godown cum Community Center 143 nos					
10. STUDY TEAM	No. of Members 10 Period Oct. 1988-Sep. 1989 (12 months)	(2) Infrastructure development					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		- Re-excavation of irrigation canal 143 km					
12. EXPENDITURE	Total 143,620 (¥'000) Contracted 136,092	- Low lift pump 341 nos					
		- Feeder road A 18 km	- Feeder road B 140				
		- Rural road 83 km	- Bridge 144				
		- Growth center 8 nos	- Hat market 34				
		- Fish pond improvement 4500 nos					
		4. CONDITIONS AND DEVELOPMENT IMPACTS	Condition: The economic internal rate of return of the Project is estimated at 20%. Development Impacts: The Project will generate long term employments for 80,000 persons (20 million man day per annum). Besides, the construction works under the Project will employ 20,000 labourers every year during nine years of the project implementation period. The employment ratio will be improved from 41% in 1988 to 63% in 1999.				
		5. TECHNICAL TRANSFER					Technology transfer to counterparts in the course of the study.
		6. MAJOR REASONS FOR PRESENT STATUS	This is integrated into the forth Five-Year Plan.				
		3. PRINCIPAL SOURCE OF INFORMATION	①, ② MRDP, BRDP				

PROJECT SUMMARY (F/S)

Compiled Mar. 1991
Revised Oct. 1994

ASO BGD/S 305/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Bangladesh	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	Optimization of Capacity Utilization and Improvement of Performance of Chittagong Dry Dock	Chittagong					
3. SECTOR	Transportation/Marine Transportation & Ships	2. PROJECT COST		Total Cost	Local Cost		
4. REFERENCE NO.		(US\$1,000)	1)	8,972	3,306		
5. TYPE OF STUDY	F/S	(US\$1=32.3 Taka)	2)				
6. COUNTERPART AGENCY	Bangladesh Steel & Engineering Corporation (BSEC)		3)			(Description) (FY1992 Overseas Survey) Waiting for the answer. (FY1993 Overseas Survey) According to the feasibility study of JICA, Taka 28 crore is required to implement the Project. The main factor which delayed the implementation of the Project is the financial problems, since the project may be implemented only the fund becomes available from Governmental grant assistance from Japan or any other donor country.	
7. OBJECTIVES OF STUDY	Study for the optimization of capacity utilization and improvement of performance of Chittagong Dry Dock Ltd.	3. CONTENTS OF MAJOR PROJECT(S)					
8. DATE OF S/W	Aug. 1988						
9. CONSULTANT(S)	Joint Venture/ Overseas Ships Building Cooperation Center Mitsui Engineering & Shipbuilding Co., Ltd.	4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 27.00 EIRR2) EIRR3)	FIRR1) 12.40 FIRR2) FIRR3)	
10. STUDY TEAM	No. of Members 8 Period Mar. 1989-Feb. 1990 (11 months)	Conditions and Development Impacts: Development Impacts: 1. expected FIRR 12.4% expected EIRR 27.0% 2. Increase of employment 130 direct employees, 180 sub-workers 3. Development of the related industries The project will contribute to a development and progress of the domestic related industries dealing with various materials and equipment required for daily operation of the shipyard.					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY						2. MAJOR REASONS FOR PRESENT STATUS	
Study of the Repair Shipyard in Singapore (Result of Repair and Technical Assistant)						Because of internal problems within Bangladesh.	
12. EXPENDITURE						3. PRINCIPAL SOURCE OF INFORMATION	
Total 142,288 (¥'000)						①, ② BSEC	
Contracted 133,898				5. TECHNICAL TRANSFER			
				Technical training for the counterparts was carried out by JICA's expense during this study			

和名 チッタゴン造船所整備計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar.1991
Revised Mar.1995

ASO BGD/S 306/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																													
1.COUNTRY	Bangladesh	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 Storm Water Drainage System Improvement Project in Dhaka City (updating study)		Total project area is 134.9 sq.km including 45.9 sq.km of urgent area of Dhaka City																																	
3.SECTOR Social Infrastructures/River & Erosion Control		2.PROJECT COST				(Description) A portion of the urgent project composed of one pump station and improvement of drainage channel (4.1km) is being implemented by the JICA grand aid from FY1990 to 1992. Feb. 1993. Project completed. All facilities and services have been transferred to the Government of Bangladesh. {FY1993 Overseas Survey} Mar.,1990 to Jun.,1990, detailed design was carried out. The implementation of the Project was completed on Mar.,1993 and handed over to the Government. Total amount was 684.59million Taka (including F.E. 498.13million Taka). {FY1994 Domestic Survey} No additional information.																													
4.REFERENCE NO.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">41,500</td> <td style="text-align: center;">20,100</td> <td style="text-align: center;">21,400</td> </tr> <tr> <td>US\$1=32.2TK=141Yen</td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td></td> <td></td> <td></td> </tr> </table>								Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)	41,500	20,100	21,400	US\$1=32.2TK=141Yen	2)					3)											
		Total Cost	Local Cost	Foreign Cost																															
(US\$1,000)	1)	41,500	20,100	21,400																															
US\$1=32.2TK=141Yen	2)																																		
	3)																																		
5.TYPE OF STUDY F/S		3.CONTENTES OF MAJOR PROJECT(S)				The purpose of this project is to improve the drainage condition of Dhaka city which is located in the estuary delta area surrounded by the Ganges, Brahmaputra and Meghna rivers. The proposed storm water drainage facilities are categorised into two (2) phases, i.e 1) Phase I program and 2) Urgent Project taking into account the priority sequency of the drainage system. The facilities of the Urgent Project are selected from the Phase I program which include On-going Project by the Bangladesh government and other low priority facilities. The urgent project facilities are shown below: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Phase I Program</td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Urgent Project</td> </tr> <tr> <td>1) Pump Station</td> <td style="text-align: center;">1 Place</td> <td style="text-align: center;">10 m³/s</td> <td style="text-align: center;">1 Place 10 m³/s</td> </tr> <tr> <td>2) Gate</td> <td style="text-align: center;">1 Place</td> <td></td> <td style="text-align: center;">1 Place</td> </tr> <tr> <td>3) Khal Improvement</td> <td style="text-align: center;">7,200m</td> <td></td> <td style="text-align: center;">7,200m</td> </tr> <tr> <td>4) Brick Revetment</td> <td style="text-align: center;">1,000m</td> <td></td> <td style="text-align: center;">1,000m</td> </tr> <tr> <td>5) Box Culvert</td> <td style="text-align: center;">5,800m</td> <td></td> <td style="text-align: center;">2,200m</td> </tr> <tr> <td>6) Bridges</td> <td style="text-align: center;">5 Place</td> <td></td> <td style="text-align: center;">5 Place</td> </tr> </table> A part fo Urgent Project was implimented in Feb. 1993 by the Japanese Grant Aid Program.			Phase I Program		Urgent Project	1) Pump Station	1 Place	10 m ³ /s	1 Place 10 m ³ /s	2) Gate	1 Place		1 Place	3) Khal Improvement	7,200m		7,200m	4) Brick Revetment	1,000m		1,000m	5) Box Culvert	5,800m		2,200m	6) Bridges	5 Place		5 Place
	Phase I Program		Urgent Project																																
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4) Brick Revetment	1,000m		1,000m																																
5) Box Culvert	5,800m		2,200m																																
6) Bridges	5 Place		5 Place																																
6.COUNTERPART AGENCY Dhaka Water Supply and Sewerage Authority(DWASA)		4.FEASIBILITY AND ITS ASSUMPTIONS				Feasibility: EIRR1) 9.30 FIRR1) Yes EIRR2) FIRR2) EIRR3) FIRR3)																													
7.OBJECTIVES OF STUDY -To update th JICA's previous study(1987) -To propose the urgent program		Conditions and Development Impacts: Conditions -Foreign financial aid is necessary -Urgent implementation is necessary in coordination with other related flood control and drainage improvement projects -Appropriate land use is necessary Development Impacts -To protect the area from internal flooding -To enhance beneficial land use -To activate economic activity -To improve sanitary conditions Note: B/C ratio 1.90																																	
8.DATE OF S/W Jul.1989		Imp. Period: Nov.1990-Mar.1993				2.MAJOR REASONS FOR PRESENT STATUS Implementation of this project became very urgent after the major flood in 1988.																													
9.CONSULTANT(S) Pacific Consultants International		10.STUDY TEAM																																	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Topographic Survey Geological Investigation		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">No. of Members</td> <td style="width: 15%;">7</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td>Period</td> <td>Jul.1989-Jan.1990(7 months)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total M/M</td> <td></td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">22.00</td> <td style="text-align: center;">10.40</td> <td style="text-align: center;">11.60</td> <td></td> </tr> </table>				No. of Members	7				Period	Jul.1989-Jan.1990(7 months)				Total M/M		Japan	Field			22.00	10.40	11.60		3.PRINCIPAL SOURCE OF INFORMATION ①, ② DWASA									
No. of Members	7																																		
Period	Jul.1989-Jan.1990(7 months)																																		
Total M/M		Japan	Field																																
	22.00	10.40	11.60																																
12.EXPENDITURE		5. TECHNICAL TRANSFER																																	
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">77,691 (¥'000)</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td>Contracted</td> <td>75,600</td> <td></td> <td></td> <td></td> </tr> </table>		Total	77,691 (¥'000)				Contracted	75,600				Technical transfer was conducted during the site study.																							
Total	77,691 (¥'000)																																		
Contracted	75,600																																		

和名 ダッカ市雨水排水施設整備計画 (アフターケア)

[F/S,D/D]

PROJECT SUMMARY (F/S)

Compiled Mar.1992
Revised Mar.1995

ASO BGD/S 307/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Bangladesh	1.SITE OR AREA	Pangaon site on the south bank of the Buriganga River in Dhaka 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 type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY Development Project of Container Terminal at Dhaka-Narayanganj Port		2.PROJECT COST		Total Cost	Local Cost	(Description) - Planning Commission of GOB instructed BIWTA to prepare a project paper for the combination of Cargo Handling Facilities and Container Terminal Projects in Apr. 1991. - The Feasibility Study was approved officially by GOB in Sept. 1991. - The request for Yen Loan of FY1992 of GOJ has been submitted by GOB at the end of Oct. 1991. As of Mar. 1993: The Government of Bangladesh has decided to implement the Development Project of Dhaka Port, combining this project and the Development Project of Dhaka and Narayanganj Port. The OECF carried out a project formation promoting survey during Sep.- Nov. 1992, dispatched an appraisal mission and agreed on the minutes of E/S in Dec. 1992. L/A is in preparation. (FY1992 Overseas Survey) Waiting for the answer. (FY1993 Overseas Survey) This Project is treated as the same Project namely "Development Project of Dhaka and Narayanganj Ports" by the Government of Bangladesh(see page 5). (FY1994 Domestic Survey) No additional information.	
		(US\$1,000)	1) 46,381	16,970	29,411		
		2) 3)					
3.SECTOR Transportation/Port		3.CONTENTS OF MAJOR PROJECT(S) *Construction of a new container terminal 1.Terminal area : 8ha 2.Berth length : 180m 3.Container gantry crane : 2 4.Straddle Carriers : 5 5.CPS : 1 shed 6.Terminal office 7.Access road : 3.6km					
4.REFERENCE NO.							
5.TYPE OF STUDY		F/S					
6.COUNTERPART AGENCY Bangladesh Inland-waterway Transport Authority (BIWTA)							
7.OBJECTIVES OF STUDY 1) To prepare Master Plan for the development of a container terminal with a target year of 2005 and 2) Short-term Plan and F/S with a target year of 1995.							
8.DATE OF S/W		Jul.1989		Imp. Period: 1993-1995			
9.CONSULTANT(S) Overseas Coastal Area Development Institute Nippon Koei Co., Ltd.		4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes		EIRR1) 14.70 EIRR2) EIRR3)	FIRR1) 12.70 FIRR2) FIRR3)		
		Conditions and Development Impacts: Development Impacts: 1.Saving of inland transport cost for containers 2.Attraction and development of export-oriented industries generated by the establishment of the new container terminal 3.Regional development in and around the proposed project site					
10.STUDY TEAM No.of Members 9 Period Nov.1989-Mar.1991(16 months)							
		Total M/M		Japan	Field		
		68.30		36.80	31.50		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY 1) O/D investigation; 2) soil materials survey; 3) topographic survey and river-bed sounding						2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE Total 230,015 (¥000) Contracted 223,231		5.technical transfer Sufficient technical transfer has been accomplished by face-to-face training from the study team members to the BIWTA's counterparts during the around 6-month stay of the members in Bangladesh.				3.PRINCIPAL SOURCE OF INFORMATION ①, ②, ④ BIWTA	

和名 ダッカ港コンテナ・ターミナル整備計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar.1992

Revised Mar.1995

ASO BGD/A 303/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Bangladesh	1.SITE OR AREA	The study area is located in 4 Upazilas ; Kurigram, Bhurungamari, Fulbari and Nageswari in the Kurigram District, adjoining of the West Bengal of			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		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description) During the annual meeting of 1992, Bangladesh requested an OECF loan. In Jun. 1990, OECF sent a pre-investigation mission. But did not adopt the plan as the electricity supply pain to the main pumping station was not clear. And further study and reconsideration are needed to adjust to the standard flood control policy of Bangladesh. (FY1992 Overseas Survey) Waiting for the answer. (FY1993 Overseas Survey) After completion of additional survey and detailed designing works, the preparation to secure finance will be started. Involve more number of local consultants and involve more personnels of the Government of Bangladesh to the Project activities will be requested to JICA. (FY1994 Domestic Survey) Although further study is needed to modify the project, it is suspended due to the lack of fund.
Kurigram Irrigation and Food Control Project - North Unit		(US\$1,000)		1) 98,826	45,655	53,171	
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)		To measure plans for irrigation, river flood embarkment, drainage facilities improvement and agricultural supporting systems.			
Agriculture/General		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: EIRR1) 19.70 FIRR1) 9.60 Yes EIRR2) FIRR2) EIRR3) FIRR3)			
4.REFERENCE NO.		5.TYPE OF STUDY		Conditions and Development Impacts:			
5.TYPE OF STUDY		F/S		The BWDB is responsible for planning and implementing irrigation, drainage and flood control, and for operation and maintenance due to the increase of agricultural products in the project area.			
6.COUNTERPART AGENCY		Bangladesh Water Development Board (BWDB)		Surface water irrigation facilities with pumps and canals, coupled with the reduced level of flooding due to flood control and drainage work would induce the present level of cropping intensity from 177% to 244% and also contribute to increasing employment opportunity.			
7.OBJECTIVES OF STUDY		To formulate plans for irrigation and drainage development as well as flood control which will be toward the increase and improvement of agricultural products		5. TECHNICAL TRANSFER			
8.DATE OF S/W		Feb.1989		2 persons under BWDB received for technical training in Japan			
9.CONSULTANT(S)		Taiyo Consultants Co., Ltd. Sanyu Consultants Inc.		3.PRINCIPAL SOURCE OF INFORMATION			
10.STUDY TEAM		No.of Members 10 Period Jul.1989-Oct.1990(16 months)		①、②、⑥ BWDB			
Total M/M		Japan Field					
62.97		25.43 37.54					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Topographic and canal survey Soil mechanics and boring survey Soil analysis Questionnaire survey					
12.EXPENDITURE		Total 211,998 (¥'000)					
Contracted		203,192					

PROJECT SUMMARY (M/P)

Compiled Mar.1993
Revised Mar.1995

ASO BGD/A 102/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Bangladesh	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	The Model Rural Development Project Phase II for Kachua, Nabinagar, Bancharampur and Debidwar Upazilas	Kachua, Nabinagar, Bancharampur and Debidwar Upazilas, Old Comilla District				(Description) (1) Master Plan Study of MRDP Phase I for Homna and Daudikandi Upazilas in Old Comilla District had been executed during the period from 1986 to 1987. Grant Aid for Homna and Daudikandi Upazilas was commenced from 1992. (1992-1993) At the same time, Mini-project technical cooperation has been also executed. (2) The Government of Bangladesh has not requested Grant Aid to the Government of Japan. (FY 1993 Domestic Survey) (3) There is no official request up to Jan.1993. (FY1993 Overseas Survey) Still awaiting for formal acceptance of financing by the Government of Japan. (FY1994 Domestic Survey) There is still no official request up to Dec. 1994.	
3.SECTOR		2.PROJECT COST		Total Cost Local Cost Foreign Cost			
Agriculture/General		(US\$1,000)		1) 309,469			
4.REFERENCE NO.		(US\$1,000)		2) 104,980	10,771	30,446	
5.TYPE OF STUDY		3.CONTENTES OF MAJOR PROJECT(S)					
M/P		Master Plan (1) LLP Irrigation Development and Drainage Improvement Programme (2) Fractional Pump Promotion Programme (3) Crop Intensification and Diversification Programme (4) Farm Input Supply Programme (5) Model Farm Credit Programme (6) Semi-Intensive Fish Pond Culture Development Programme (7) Post Harvest Plants Expansion Programme (8) Upagila Food Frains Marketing Programme (9) Joint Marketing Promotion Programme (10) Feeder and Rural Roads Improvement Programme (11) Growth Center Improvement Programme.					
6.COUNTERPART AGENCY		Priority Project (1) Irrigation Development 34km ; (2) Fractional Pump 200nos. (3) Road Improve. 14.1km ; (4) UCCA 4nos. (5) Growth Center 4nos.					
Bangladesh Rural Development Board (BRDB) Local Gorvenment Engineering Bureau (LGEB)							
7.OBJECTIVES OF STUDY		4.CONDITIONS AND DEVELOPMENT IMPACTS					
To formulate with long-term development strategies, the Master Plan of Model Rural Development Project Programme PhaseII (MRDP II) and to formulate the priority projects to be selected among the MRDP II.		(Conditions) The quantified benefits consist of incremental crop and fishery production, the value accruing from the UCCA comple project and the value accruing from reduction of transportation and passengers' cost saving through the feeder Bond rural road improvement project. (Development Impacts) - Increase of employment opportunity - Improvement of insufficient nutrition and elimination of poverty - Improve communications and transport resulting from infrastructural development.					
8.DATE OF S/W		2.MAJOR REASONS FOR PRESENT STATUS Execution of MRDP II will be considered based on the results of the Project "Phase I for Homna and Daudikandi Upazilas".					
Dec.1989							
9.CONSULTANT(S)		3.PRINCIPAL SOURCE OF INFORMATION ①, ② BRDB					
Nippon Koei Co., Ltd. Taiyo Consultants Co., Ltd.							
10.STUDY TEAM		5.TECHNICAL TRANSFER					
No.of Members 11		On the Job Training					
Period Sep.1990-Aug.1991(12 months)		12.EXPENDITURE Total 301,296 (¥'000) Contracted 185,028					
<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;">57.23</td> <td style="text-align: center;">21.30</td> <td style="text-align: center;">35.93</td> </tr> </table>							
Total M/M	Japan	Field					
57.23	21.30	35.93					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1994

Revised Mar.1995

ASO BGD/S 202B/92

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																																	
1.COUNTRY	Bangladesh	1.SITE OR AREA				I.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	Greater Dhaka Protection Project(FAP8A)	Greater Dhaka East of Greater Dhaka Area, DND and West part of Narayanganj Area (A=194.04km ²)																																																					
3.SECTOR	Social Infrastructures/River & Erosion Control	2.PROJECT COST (US\$1,000)		Local Cost	Foreign Cost	(Description) Project realization is not confirmed.																																																	
4.REFERENCE NO.		M/P 1) 2) F/S 1) 2) 3)	1,700,225 749,667	1,102,958 372,945	597,267 376,722																																																		
5.TYPE OF STUDY	M/P+F/S	3.CONTENTS OF MAJOR PROJECT(S)				(FY1993 Overseas Survey) No commitment from Donors for conducting the detail design and implementation has yet been received. Eastern part of the Greater Dhaka Flood Protection Project is under preparation by Bangladesh Water Development Board (BWDB).																																																	
6.COUNTERPART AGENCY	Ministry of Irrigation, Water Development, Flood Control. Flood Plan Coordination Organization.	*(R) is Rehabilitation <M/P> (1991-2010): Total Project Cost TK 61,208 Mil. 1) Structural Measures 1 Embankment (R) / 15.7km 6 Pump Station / 16 pls 2 Embankment / 108.3km 7 Khal Improvement / 241.4km 3 Flood Wall(R) / 24.9km 8 Drainage Pipe / 17.0km 4 Flood Wall / 55.4km 9 Retarding Pond / 4192 ha 5 Sluice Gate/ 57 pls 2) Non-Structural Measures 1 Reinforcement and Improvement of Flood Forecasting and Warning System 2 Construction (or Improve) of evacuation road networks and flood shelters : 4 Flood Prone Area <F/S>																																																					
7.OBJECTIVES OF STUDY	1. To formulate a M/P on a Comprehensive flood control and stormwater drainage for Dhaka Metropolitan Area. 2. To conduct a feasibility study on a flood control and stormwater drainage for the priority area identified in the M/P.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Greater Dhaka Area</th> <th>DND of Narayanganji</th> <th>Narayanganji West</th> </tr> </thead> <tbody> <tr> <td>Embankment</td> <td>27.52km</td> <td>-----</td> <td>11.89km</td> </tr> <tr> <td>Sub-Embankment</td> <td>17.42km</td> <td>-----</td> <td>-----</td> </tr> <tr> <td>Road-Cum-Embankment</td> <td>-----</td> <td>-----</td> <td>4.10km</td> </tr> <tr> <td>Flood Wall</td> <td>21.27km</td> <td>3.38km</td> <td>11.48km</td> </tr> <tr> <td>Flood Wall(R)</td> <td>-----</td> <td>25.20km</td> <td>-----</td> </tr> <tr> <td>Sluice Gate</td> <td>7 pls</td> <td>1 pls</td> <td>14 pls</td> </tr> <tr> <td>Pump Station</td> <td>180.5m³/s(4)</td> <td>64.7m³/s(2)</td> <td>12.2m³/s(1)</td> </tr> <tr> <td>Stop Log</td> <td>-----</td> <td>58 pls</td> <td>17 pls</td> </tr> <tr> <td>Retarding Basin</td> <td>18.95x1,000,000m³</td> <td>6.81x1,000,000m³</td> <td>1.28x1,000,000m³</td> </tr> <tr> <td>Khal Improvement</td> <td>73.2km</td> <td>51.2km</td> <td>17.2km</td> </tr> <tr> <td>Bridge</td> <td>13 No.</td> <td>40 No.</td> <td>14 No.</td> </tr> </tbody> </table>					Greater Dhaka Area	DND of Narayanganji	Narayanganji West	Embankment	27.52km	-----	11.89km	Sub-Embankment	17.42km	-----	-----	Road-Cum-Embankment	-----	-----	4.10km	Flood Wall	21.27km	3.38km	11.48km	Flood Wall(R)	-----	25.20km	-----	Sluice Gate	7 pls	1 pls	14 pls	Pump Station	180.5m ³ /s(4)	64.7m ³ /s(2)	12.2m ³ /s(1)	Stop Log	-----	58 pls	17 pls	Retarding Basin	18.95x1,000,000m ³	6.81x1,000,000m ³	1.28x1,000,000m ³	Khal Improvement	73.2km	51.2km	17.2km	Bridge	13 No.	40 No.	14 No.	(FY1994 Domestic Survey)<Notes> Donor meeting is planned to be held at Dhaka city on Dec.1994. On this meeting policy of each donor country or international organization will be discussed.	
	Greater Dhaka Area	DND of Narayanganji	Narayanganji West																																																				
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8.DATE OF S/W	Jun.1990	Imp. Period: 1992-.2010 .1996-.2009 .1999-.2004																																																					
9.CONSULTANT(S)	Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 15.80 FIRR1) EIRR2) 14.50 FIRR2) EIRR3) 14.30 FIRR3)	2.MAJOR REASONS FOR PRESENT STATUS Delayed due to the coordination problems among Governmental Organizations concerned(DNDP). Necessary to find the donor country for financing.																																																	
10.STUDY TEAM	No.of Members 14 Period Sep.1990-Mar.1991(19 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">113.14</td> <td style="text-align: center;">15.49</td> <td style="text-align: center;">97.65</td> </tr> </table>	Total M/M	Japan	Field	113.14			15.49	97.65	Conditions and Development Impacts: [Basic Condition]<M/P> 1.Scale of Flood Protection: Floods of a 100 year frequency or the scale of the 1988 flood. 2.The structural measures is proposed to eliminate flood problems in an area of 453 km ² . 3.Scale of stormwater Drainage Improvement: Design flood stage of 2-year frequency, 2-day consecutive rainfall with a 5-year frequency were applied. <F/S> 1.Scale of Flood Protection: 100-year floods frequency 2.To eliminate flood problems in the future urban area by the target year 2010. 3.Greater Dhaka area was divided into 4 compartments in order to increase safety and to facilitate a phased development 4.Scale of stormwater Drainage Improvement: 2-day consecutive rainfall with a 5-year frequency. 5.Retarding areas were proposed in low-lying areas. [Development Impacts]<M/P,F/S> Reduction of flood/Stormwater damage and promotion of areal development.																																													
Total M/M	Japan	Field																																																					
113.14	15.49	97.65																																																					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Land use, Flood drainage, Topographic and Environment Survey. Soil investigation, Preparation of Topographic map.	5. TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION ① Ministry of Irrigation																																																	
12.EXPENDITURE	Total 480,809 (¥'000) Contracted	Technical transfer was carried out through the occasion of explanation and discussion on the reports.																																																					

PROJECT SUMMARY (M/P+F/S)

ASO BGD/S 203B/92

Compiled Mar.1994
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Bangladesh	1.SITE OR AREA	North West Region (34,600km ²)			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	River & Erosion Control / Drainage Improvement in North West Region	2.PROJECT COST (US\$1,000)	M/P 1) 2) F/S 1) 2) 3)	Local Cost 865,000 42,932	Foreign Cost 11,249 31,683		
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTES OF MAJOR PROJECT(S)	<M/P> Stagewise Development Plan established 1) Short-term plan (1993-1997: Investment Cost US\$580 million) Gaibandha Improvement, Lower Atrai (Polder C&D), L.Jamuna Right Bank, Other FAP projects and On-going projects (Bogra Polder 2 and Gazaria Ichamat) 2) Mid-term plan (1998-2007: Investment Cost US\$285 million) Lower Atrai (polder A&B), Teesta Left Bank, Bogra Polder 3 and On-going projects 3) Long-term plan after 2007 Huzasagar, Mohananda Right Bnak and Upper Karatoya/Bangali Floodway <F/S> The following measures were planned to be provided to mitigate the flood damage from the neighbouring rivers in and around the project area: 1) Teesta Right Embankment 2) Ghagot river 3) Drainage improvement in the project area 4) Flood proofing and associated development/improvement works for fisheries, health and navigation			(Description) FAP 2 study was undertaken as one of FAP projects consisting of 26 projects and completed in Jan. 1993, though Technical Committee Meeting has not been held. Other FAP projects, however, is still being carried out. To proceed the proposed projects by FAP 2 study to the next stages, it is required to adjust the result of FAP 2 study based on result of other FAP projects or coordinate with the proposed projects by other FAP study. While, the FAP 2 study, a regional study, was completed earlier than other FAP projects. Therefore, our study results are considered to provide suggestion for formulating flood control and drainage plan in other regional and supplemental studies. (FY1993 Overseas Survey) For the North-Western Area, Improvement of rivers at Gaibandha and Lower Atrai river should be given the top priority, and waiting for the implementation. The actions to provide necessary fund should be taken more quicker. Among 26 projects covering whole territory of the country, FAP-13 has been completed the survey works of phase 2, and waiting for the approval of Government. Both Japan and U.K. suggest their interest to finance on this Project (Period of Implementation will be from Oct.,1993 to Dec.,1996). Willing to receive from Donors for conducting the detailed design. (FY1994 Domestic Survey) Almost all of the FAP studies are to be completed within this fiscal year and adjustment among the FAPs will be done towards implementation of priority project in the next year. ADB seems to have keen interest of the "Gaibandha Improvement Project" which is a priority project of FAP-2.	
4.REFERENCE NO.		5.TYPE OF STUDY					M/P+F/S
6.COUNTERPART AGENCY	Flood Plan Coordination Organization, Ministry of Irrigation	7.OBJECTIVES OF STUDY	Formulating a master plan for flood control and drainage improvement				
8.DATE OF S/W	Jun.1990	9.CONSULTANT(S)	Nippon Koei Co., Ltd. Nikken Consultants., Inc.				
		4.FEASIBILITY AND ITS ASSUMPTIONS	Imp. Period: 1993-.2003	Feasibility: Yes/No	EIRR1) 10.00 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM	No. of Members 9 Period Jan.1991-Jan.1993 (25 months)	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	None				
	Total M/M 82.67 Japan 1.26 Field 81.41	12.EXPENDITURE	Total 351,342 (¥000) Contracted 320,000				
		5.TECHNICAL TRANSFER	Planning procedures and methods adopted for flood control and drainage projects in Japan was explained and transferred to local engineers by means of the on-the-job training.				
		3.PRINCIPAL SOURCE OF INFORMATION	①, ② Ministry of Irrigation				
		2.MAJOR REASONS FOR PRESENT STATUS					

和名 北西地域洪水防御排水計画

[M/P+F/S]

PROJECT SUMMARY (F/S)

Compiled Mar.1994

Revised Mar.1995

ASO BGD/A 304/92

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Bangladesh	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 Kurigram Irrigation and Flood Control Project -South Unit-		Northwest Region adjacent to Indea, 59,400ha bounded by the existing embankment					
3. SECTOR Agriculture/Irrigation, Drainage & Reclamation		2. PROJECT COST (US\$1,000)		Total Cost 58,700	Local Cost 42,700	Foreign Cost 16,000	
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)		(Description) Government of Bamphader have an intention to implement the project, however, implementation will delay depending on the PAP studies. (FY1993 Overseas Survey) Necessary documents of the Project (Phase-1) has been prepared and submitted by the project Authority to obtain administrative approval from the Government. The Government of Japan has shown interest in financing Phase-1 works under Japan's Grant Assistance. But, not negotiated as yet. Hoping to involve more local consultants and the staff of the government of recipient country. (FY1994 Domestic Survey) No additional information.			
5. TYPE OF STUDY F/S		1. Irrigation : Existing farm land of 35,500ha will be irrigated the rough conjunctive use of both groundwater and surface water, and percentage of planting will be higher from 190% to 224%					
6. COUNTERPART AGENCY Bangladesh Water Development Board		2. Drainage : Draining network will be improved through rehabilitation works of existing drainage channels					
7. OBJECTIVES OF STUDY The objective is to increase in the agricultural productions by provision of water for irrigation, improvement of drainage system and prevention of annual flooding		3. Flood control : Rehabilitation of the existing flood bankment.					
8. DATE OF S/W Aug. 1991		4. Rural infrastructure reconstruction bridge :52 culvert :9					
9. CONSULTANT(S) Nippon Koei Co., Ltd. Chuo Kaihatsu Cor.		4. FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes/No		EIRR1) 28.50 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	2. MAJOR REASONS FOR PRESENT STATUS	
10. STUDY TEAM No. of Members 11 Period Dec.1991-Mar.1993 (16 months)		Conditions and Development Impacts: * Imp. Periods are 1) D/D 2 years, 2) Phase I 4 years, 3) Phase II 4 years, Total 10 years.					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Topo-Survey, Geological Survey, Chemical Analysis of Water, Plan survey, Route Survey, Farm Economy Survey, Farmers intention survey		Conditions: same as Flood Plan Coordinatio Organization, 30 years of project					
12. EXPENDITURE		5. TECHNICAL TRANSFER		3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ⑥ BWDB			
Total 262,292 (¥'000) Contracted 251,576		Technical transfer was made through joint work in the field study. Training in Japan (one person)					

和名 クリグラム南部灌漑排水計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar. 1990
Revised Mar. 1995

ASO BTN/A 301/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Bhutan	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		Lhuntsi and Mongar Districts (Area: 560,000ha, Population-Lhuntsi District: 42,100, Mongar District: 77,200)					
3. SECTOR		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	
Agriculture/General		(US\$1,000)		1) 8,586	2,336	6,250	
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)		(Description) Bhutan government intended to request grant aid for the projects, but the present situation is unknown. (FY1991 Overseas Survey) Since IFAD project concerns both Mongar and Lhuntsi Dzongkhags, this project will either be delayed or shifted to other areas in future. (FY1994 Domestic Survey) The Bhutan government puts high priority on the implementation of another project and does not request this project.			
5. TYPE OF STUDY		Following two projects were proposed as model development:					
6. COUNTERPART AGENCY		Main components					
Department of Agriculture, Ministry of Agriculture and Forestry		Tangmachhu area		Masangdaza			
7. OBJECTIVES OF STUDY		Project area		125ha			
To formulate an Integrated Agricultural Development plan for the object area and to assess its technical soundness and economic viability.		Intake (new)		2 sites			
8. DATE OF S/W		Main canal (rehabilitation)		9.5km			
Jul. 1986		Main canal (new construction)		0.9km			
9. CONSULTANT(S)		Secondary canal (rehabilitation)		0			
Nippon Koei Co., Ltd. Nippon Giken Inc.		Secondary canal (new const.)		0.4km			
10. STUDY TEAM		Feeder road		2.4km			
No. of Members 7		Agro-processing factory		-			
Period Dec. 1987-Nov. 1988 (12 months)		1 site/90m ²		-			
Total M/M		Agriculture mechanization		proposed			
Japan	10.00	Agri. mechanization centre		Establish one branch in Mogar prefecture for both areas.			
Field	32.10	Agri. extension office		One office will be established in Lingmethang.			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Trial cum demonstration farm		5 places			
		Agri. machinery for the farm		one-set			
12. EXPENDITURE		Imp. Period:		Jul. 1989-Mar. 1992			
Total	137,883 (¥000)	4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility:	EIRR1) 4.60	FIRR1)	
Contracted	131,476	Conditions and Development Impacts:		Yes	EIRR2) 3.80	FIRR2)	
		Condition:			EIRR3)	FIRR3)	
		Self-sufficiency in basic foods and improvement of income of farmers					
		Deterioration of imbalanced social welfare among regions in the country					
		Basic agricultural development concept is the integration in development.					
		Development of model areas					
		Economic benefit is assessed only on the irrigation projects.					
		Benefits and impacts:					
		Rice production in Tangmachhu and Masangdaza area will be increased in 2.9 (1,100tons) times and 8.9 times (400tons) of present production.					
		The land and labor productivity will be increased to about 3 times of present levels. Improvement of marketing of agri. products and inputs as well as informations and social welfare will be expected by construction of feeder road. Development model effects will be expanded smoothly by the road.					
		* EIRR 1) is for Tangmachhu and 2) is for Masangdaza.					
		5. TECHNICAL TRANSFER					
		Technology transfer to counterparts in the course of the Study					
		2. MAJOR REASONS FOR PRESENT STATUS					
		3. PRINCIPAL SOURCE OF INFORMATION		①, ②			

PROJECT SUMMARY (Other)

Compiled Mar. 1986
Revised Mar. 1994

ASE BRN/S 601/83

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1. COUNTRY	Brunei	1. SITE OR AREA				1. PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input checked="" type="checkbox"/> Discontinued					
2. NAME OF STUDY	Improvement of Brunei Government Printing Department	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) (FY1991 Overseas Survey) The JICA report did not include the provision of new buildings but recommended that the existing building be modified. This recommendation was not taken up because any modifications would have put the printing section out of action for a year. Discussions were held with the Ministries of Development and of Finance at that time and expansion plans for the buildings and equipment were approved, and in due course implemented. Current volume of production exceeded the projections of the JICA report by about 3-4 times, and the market value of printing undertaken by the Dept. increased from between B\$3-4 million to B\$9 million. The floor space roughly tripled and the Dept. currently employs 300 persons. Since the JICA study, some 20 employees (mainly operational and supervising staff) have been sent to Germany and the United Kingdom for training in factories or to take up relevant professional courses for instructors. The Dept. now has its own in-plant training program in printing skills. In view of the countries where the staff were sent for training, most of the machinery and equipment currently used are from the European countries. The Printing Dept. wants to keep alive the cooperation with JICA, both technical and financial. The Director of the Dept. would like to run a proper training school to produce skilled workers in printing, not only to service the public sector but also the private sector where most of the workers are currently expatriates. This is one of the possible areas for future JICA assistance. (FY1993 Overseas Survey) No change is reported.						
3. SECTOR	Social Infrastructures/Architecture & Housing	(US\$1,000)	1)	2,373								
4. REFERENCE NO.		(US\$1=232.2 yen)	2)									
5. TYPE OF STUDY	Other	3. CONTENTS OF MAJOR PROJECT(S)										
6. COUNTERPART AGENCY	Government Printing Dept.	The Printing Department has been producing about 70% of governmental printed matters. While, the production has been increasing at an annual rate of 20%. Taking the 1982 index as 100, the order will grow 2.5 times by 1987. Then, taking into considerations several problems confronted by Printing Department and estimated future demand, proposals for addition of facilities and equipment and for improving management and administration will be presented in a specific manner: (1) Plan for introduction of New Facilities; Judging from the current production growth rate in the Printing Department, the production of Monocolor printing will be estimated by 7,680,000 M2/year against the installed capacity of 7,370,000 M2/year and Color Printing will be estimated by 12,330,000 M2/year against the installed capacity of 3,390,000 M2/year. So, the supply and demand of Monocolor Printing is well balanced, but the capacity of Color Printing is in short by 3.5 times from the supply. Color printing machines (offset printing machines) will be further needed. Together with the color printing machines, Binding machines and Graphic reproduction will be needed. List of machine to be added: - Sheeted offset printing machine 4 sets - Binding machines and the related 7 sets - Color Scanner for graphic reproduction 1 set										
7. OBJECTIVES OF STUDY	Proposal on improving of Government Printing Dept.	4. CONDITIONS AND DEVELOPMENT IMPACTS										
8. DATE OF S/W	.0	[Conditions] Before increasing machines and equipments and also before changing Layout Plan, new warehouses scheduled to be built in 1984 will store only materials from the old storehouse. [Development Impacts] The benefits obtained from the program: (1) Improved production efficiency: At the end of the project, available staff and worker will be 185 instead of the present 128, 1.45 times higher and the production capacity will be 2.07 times that in 1983. That is, the production efficiency per worker will increase about 43% in total. (2) Maneuverable production system; Addition of machines as well as improvement of layout of installed machines and of plant administration will substantially increase production capacity. In addition, the extensive reformation of the binding section will help to reduce the total production time. Further, the improvement of the distribution system and the addition of distributing means will permit quick distribution. These results will realize quicker delivery than before. (3) Technological improvement: Machine operation technique will be hopefully improved through the introduction of new machines under the present project. Particularly, one colour scanner for graphic reproduction and various new machines for high-quality binding will bring about dramatic technical improvements in these fields. The technical ability in printing, binding and graphic reproduction fields will also be cultivated through the intensified technical education and training carried out by Printing Department. This will provide the foundation, on which Printing Department can advance to new fields.										
9. CONSULTANT(S)	Kokuyo Co., Ltd.	5. TECHNICAL TRANSFER										
10. STUDY TEAM	No. of Members 7 Period Sep. 1983-Jan. 1984 (4 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">4.32</td> <td style="text-align: center;">2.67</td> <td style="text-align: center;">1.65</td> </tr> </table>	Total M/M	Japan	Field	4.32		2.67	1.65	2. MAJOR REASONS FOR PRESENT STATUS			
Total M/M	Japan	Field										
4.32	2.67	1.65										
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	3. PRINCIPAL SOURCE OF INFORMATION										
12. EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">14,688 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">11,287</td> </tr> </table>	Total	14,688 (¥'000)	Contracted	11,287	②						
Total	14,688 (¥'000)											
Contracted	11,287											

和名 印刷局改善計画

(M/P, Basic Study, Other)

PROJECT SUMMARY (M/P)

Compiled Mar. 1988

Revised Mar. 1995

ASE BRN/S 101/85

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1. COUNTRY	Brunei	1. SITE OR AREA	Urban area and its outskirts		1. PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2. NAME OF STUDY	Public Transport System in Negara Brunei Darussalam	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) Since the completion of the JICA study, no specific action has been taken. The pace of motorization has been very rapid in the country, and the need to upgrade the country's public transportation system will intensify before long. (FY1991 Overseas Survey) The Land Transport Dept. submitted the Report of the Master Plan Study to the Ministry of Communications with a recommendation that suggested feasibility studies be undertaken in phases, starting from the urban areas like Bandar Seri Begawan and then to other outlying areas. No definite decision has been made to date. (FY1992 Overseas Survey) No additional information. (FY1994 Domestic Survey) No information.						
3. SECTOR	Transportation/(Transportation in)General	(US\$1,000)	1)	72,900								
4. REFERENCE NO.		B\$1=US\$0.48	2)									
5. TYPE OF STUDY	M/P	3. CONTENTS OF MAJOR PROJECT(S)										
6. COUNTERPART AGENCY	Land Transport Dept.	1. Improvement Plan of Public Bus System - Purchase 235 new buses - Strengthen bus network and its operation - Improve bus terminals, bus stops, operation offices and workshops 2. Improvement Plan of Taxi System - Construction of taxi stations - Introduction of radio equipped taxis 3. Relevant Improvement Plan - Improvement of arterial road network - Introduction of grade separated intersections - Improvement of traffic control system										
7. OBJECTIVES OF STUDY	Preparation of a Master Plan for the improvement and an intermediate programme of the Public Transport System	4. CONDITIONS AND DEVELOPMENT IMPACTS										
8. DATE OF S/W	Mar. 1984	1. Future population and GDP in 1995 were estimated as the basic conditions of future traffic forecast. 2. The types of benefits such as the savings of vehicle operating costs and passenger's time costs are applied. 3. The Economic IRR of the period is assumed 30.7% during the period of 20 years after completion of the project. 4. The Financial IRR of corporation for the public bus operation is assumed only 2.0%, therefore, Government financial supports are necessary.										
9. CONSULTANT(S)	Japan Engineering Consultants Co., Ltd.	5. TECHNICAL TRANSFER										
10. STUDY TEAM	No. of Members 9 Period Jul. 1984-Mar. 1985 (8.5 months) Jun. 1985-Jul. 1985 <table style="margin-left: 20px; border: none;"> <tr> <td style="text-align: right;">Total M/M</td> <td style="text-align: right;">Japan</td> <td style="text-align: right;">Field</td> </tr> <tr> <td style="text-align: right;">33.63</td> <td style="text-align: right;">19.20</td> <td style="text-align: right;">14.43</td> </tr> </table>	Total M/M	Japan	Field	33.63		19.20	14.43	1. On the job training 2. Cooperative work for the report preparation			
Total M/M	Japan	Field										
33.63	19.20	14.43										
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	3. PRINCIPAL SOURCE OF INFORMATION										
12. EXPENDITURE	<table style="margin-left: 20px; border: none;"> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">93,943 (¥'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">82,647</td> </tr> </table>	Total	93,943 (¥'000)	Contracted	82,647	2. MAJOR REASONS FOR PRESENT STATUS						
Total	93,943 (¥'000)											
Contracted	82,647											
		Government investments have been substantial in the road network improvement. The government financial support is essential to improve the public bus operation.										
		①, ②										

和名 公共交通網整備計画

[M/P, Basic Study, Other]

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1995
Revised

ASO KHM/S 201/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Cambodia	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Phnom Penh Water Supply System	Phnom Penh city					
3.SECTOR	Public Utilities/Water Supply	2.PROJECT COST (US\$1,000)		M/P 1) 2) F/S 1) 2) 3)	Local Cost	Foreign Cost	(Description) All but expansion of Phum Prek treatment plant, recommended in M/P, is being implemented as Japan's grant aid system. (1)Construction started in July 1994 -Construction of transmission pump in Phum Prek treatment plant (PPTP). -Construction of pump room -Installation of transmission pipe (500mm) -Rehabilitation of elevated tank -Installation of pressure control valves (2)Design started in August 1994 -Improvement of electric equipment in PPTP. -Construction of service reservoir -Installation of distribution pipes and meters -Supply of cover joints for repairing pipes Jul.1994 : Japan's Grant Aid E/N was concluded (1,771mil. yen) Kubota Construction received an order the construction of this(980mil. yen).
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)					
5.TYPE OF STUDY	M/P+F/S	1.Urgent rehabilitation works 1-1.Rehabilitation of existing facilities, particularly Phum Prek treatment Plant. 1-2.Expansion of Phum Prek treatment plant (50,000m ³ /day).					
6.COUNTERPART AGENCY	Phnom Penh Water Supply Authority	2.Expansion works 2-1.Rehabilitation and improvement of distribution system. 2-2.Construction of Cham treatment plant (130,000m ³ /day). 2-3.Development of distribution system.					
7.OBJECTIVES OF STUDY	Formulation of M/P, Basic study on the urgent rehabilitation works	3.Basic Study Same as 1-1. above					
8.DATE OF S/W	Oct.1992	Imp. Period:					
9.CONSULTANT(S)	Tokyo Engineering Consultants Co., Ltd. Nihon Suido Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)		
10.STUDY TEAM	No. of Members 19 Period Jan.1993-Dec.1993(12 months)	Conditions and Development Impacts: 1.Supply amount is recovered to 100,000m ³ /day from 56,000m ³ /day through improvement of electrical system. 2.Water quality is improved due to stoppage of seepage of storm water and sewage through recovery of distribution pressure. 3.Beneficiary population will be 260,000 in 1996and 910,000 in 2010. 4.Water quantity supplied will increase from 100 litres per capita per day to 200. 5.Through grant aid program, the above 1 and 2 will be obtained.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Trial digging Topographical Survey, Soil boring	5.TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE	Total 272,656 (¥'000) Contracted 247,804	Water quality analysis, Measurement of distribution pressure, Estimation of water demand, Leakage survey				3.PRINCIPAL SOURCE OF INFORMATION	

PROJECT SUMMARY (Other)

Compiled Mar.1990
Revised Mar.1995

ASO CHN/S 601/79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS																											
1.COUNTRY	China	1.SITE OR AREA	Shijiusuo and Qinhuangdao		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued																										
2.NAME OF STUDY	Port Construction	2.PROJECT COST			Total Cost Local Cost Foreign Cost				(Description)																							
3.SECTOR	Transportation/Port	(US\$1,000)	1)	2)	OECF loans have been agreed as follows. <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th></th> <th style="text-align: center;">Shijiusuo Port</th> <th style="text-align: center;">Yanzhou-Shijiusuo Railway Construction</th> <th style="text-align: center;">Beijing-Qinhuangdao Railway Improvement</th> </tr> </thead> <tbody> <tr> <td>Apr.1980</td> <td style="text-align: right;">7,085</td> <td style="text-align: right;">10,100</td> <td style="text-align: right;">2,500</td> </tr> <tr> <td>Dec.1981</td> <td style="text-align: right;">9,860</td> <td style="text-align: right;">3,110</td> <td style="text-align: right;">11,200</td> </tr> <tr> <td>Apr.1982</td> <td style="text-align: right;">18,500</td> <td style="text-align: right;">3,200</td> <td style="text-align: right;">9,200</td> </tr> <tr> <td>Oct.1982</td> <td style="text-align: right;">2,300</td> <td style="text-align: right;">11,800</td> <td style="text-align: right;">30,900</td> </tr> <tr> <td>Aug.1983</td> <td style="text-align: right;">5,200</td> <td style="text-align: right;">11,500</td> <td style="text-align: right;">33,200</td> </tr> </tbody> </table> (million yen)					Shijiusuo Port	Yanzhou-Shijiusuo Railway Construction	Beijing-Qinhuangdao Railway Improvement	Apr.1980	7,085	10,100	2,500	Dec.1981	9,860	3,110	11,200	Apr.1982	18,500	3,200	9,200	Oct.1982	2,300	11,800	30,900	Aug.1983	5,200	11,500	33,200
	Shijiusuo Port	Yanzhou-Shijiusuo Railway Construction	Beijing-Qinhuangdao Railway Improvement																													
Apr.1980	7,085	10,100	2,500																													
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4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)			(PY1994 Domestic Survey) No additional information.																											
5.TYPE OF STUDY	Other	Feasibility study on Shijiusuo as a port of coal export and iron ore import and on Qinhuangdao as a port of coal export.																														
6.COUNTERPART AGENCY	National Basic Construction Committee	4.CONDITIONS AND DEVELOPMENT IMPACTS			2.MAJOR REASONS FOR PRESENT STATUS																											
7.OBJECTIVES OF STUDY		By the development of exclusive coal berth and exclusive iron ore berth for large vessel and efficient cargo handling, it is possible to reduce transportation cost for imported iron ore, decrease cost for steel goods, and make coal major export goods.																														
8.DATE OF S/W	.0	5.technical transfer			3.PRINCIPAL SOURCE OF INFORMATION ①																											
9.CONSULTANT(S)	Overseas Coastal Area Development Institute	10.STUDY TEAM																														
No.of Members 11 Period Jan.1980-Feb.1980(1 months)		Total M/M Japan Field			11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																											
12.EXPENDITURE Total 8,186 (¥'000) Contracted		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																														

和名 港湾建設計画

{M/P,Basic Study,Other}

PROJECT SUMMARY (Other)

Compiled Mar.1986
Revised Mar.1995

ASO CHN/S 602/81

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	China	1.SITE OR AREA	Beijing - Tianjin and Beijing - Hengyang	1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Railway Modernization Project	2.PROJECT COST	Total Cost Local Cost Foreign Cost	(Description) (FY1994 Overseas Survey) Technical guidance for Chinese Ministry of Railways(Jul. 1979 - Sep. 1981) contributed to the railway modernization in China. 1) Technical guidance to improve transportation capacity by shortening interval between train services is working effectively. The interval was shortened from ten to eight minutes. 2) Technology transfer of alarm systems, train radio communications, or automatic train stop (ATS) for natural disaster contributes to prevent railway accidents. 3) The technical guidance also contributed to the "Railway Electrification Project between Chengchow and Paoki" and the "Double Tracking and Electrification Project between Hengyang and Kwangchow" completed after this project. 4) Technology transfer of the Japanese yard-automation method was not effective because of huge China's railway freight compared with Japan's. The north yard in Chengchow was fully automated based upon the Canadian method which had nearly the same size of freight. The method will be gradually spread to other districts.	
			(US\$1,000) 1) 2)		
3.SECTOR	Transportation/Railway	3.CONTENTS OF MAJOR PROJECT(S)			
4.REFERENCE NO.		A group of long-term and short-term experts was assigned to assist for the modernization of Chinese railways.			
5.TYPE OF STUDY	Other	Cooperation was centered on (1) technical guidance for renovating the sections between Beijing-Tianjing and between Beijing-Hengyang, (2) the survey on the transport capacity expansion and electrification of Beijing-Tianjing section, (3) the survey on the automation of the marshalling yards, and (4) the survey on the automation of train operations.			
6.COUNTERPART AGENCY	Dept. of Railway	4.CONDITIONS AND DEVELOPMENT IMPACTS			
7.OBJECTIVES OF STUDY	Technical cooperation	The study will contribute to the modernization of Chinese railways.			
8.DATE OF S/W	Mar. 1979	5. TECHNICAL TRANSFER			
9.CONSULTANT(S)		12.EXPENDITURE			
10.STUDY TEAM	No. of Members 44 Period Jul. 1979-Sep. 1981 (26 months)	Total M/M Japan Field	3.PRINCIPAL SOURCE OF INFORMATION		①, ③
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		47,756 (¥'000)			

PROJECT SUMMARY (F/S)

ASO CHN/S 302/84

Compiled Mar.1988
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																						
1.COUNTRY	China	1.SITE OR AREA	Between Hengyang and Guangzhou--Section 1 Between Zhengzhou and Baoji--Section 2			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	Double Tracking and Electrification Project of Railways between Hengyang and Kwangchow, and Electrification Project of Railways between Chengchow and Paoki	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) -Detailed designs were completed by the Ministry of Railways -OECF loans were approved and the project was duly implemented as follows.: OECF Loan Agreements: <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">Hengyang</td> <td style="text-align: center;">Zhengzhou</td> </tr> <tr> <td></td> <td style="text-align: center;">- Guangzhou</td> <td style="text-align: center;">- Baoji</td> </tr> <tr> <td>Oct.1984</td> <td style="text-align: right;">10,192</td> <td style="text-align: right;">7,575</td> </tr> <tr> <td>Aug.1985</td> <td style="text-align: right;">26,822</td> <td style="text-align: right;">13,258</td> </tr> <tr> <td>Jun.1986</td> <td style="text-align: right;">24,491</td> <td style="text-align: right;">9,462</td> </tr> <tr> <td>Jul.1987</td> <td style="text-align: right;">8,789</td> <td style="text-align: right;">31,396</td> </tr> <tr> <td>Aug.1988</td> <td style="text-align: center;">-</td> <td style="text-align: right;">7,500</td> </tr> </table> (million yen) (FY1994 Domestic Survey) Hengyang Guang-zhou This project was completed in 1988 aiming at strengthening the transport capacity Zhengzhou-Baoji. Of 684km between Zhengzhou and Baoji, the 269km section between Zhengzhou and San-men-xia was completed in 1986. After the construction of the remaining sections was promoted in accordance with the 7th five-year plan(1986-90), it was completed in 1991. This led to the great increase of the capacity of coal transport from northern Hebei and north of Wei-he to eastern districts. In the execution of this construction, various kinds of technical guidance was conducted by short-term experts dispatched by JICA. Furthermore, a geological survey centering on geophysical exploration was conducted in the Nan-ling Tunnel between Heng Yang and Guang-Zhou as a joint work by Chinese and Japanese experts. (FY1994 Overseas Survey) (Please turn over)			Hengyang	Zhengzhou		- Guangzhou	- Baoji	Oct.1984	10,192	7,575	Aug.1985	26,822	13,258	Jun.1986	24,491	9,462	Jul.1987	8,789	31,396	Aug.1988	-	7,500
	Hengyang	Zhengzhou																										
	- Guangzhou	- Baoji																										
Oct.1984	10,192	7,575																										
Aug.1985	26,822	13,258																										
Jun.1986	24,491	9,462																										
Jul.1987	8,789	31,396																										
Aug.1988	-	7,500																										
3.SECTOR	Transportation/Railway	3.CONTENTS OF MAJOR PROJECT(S)	1)	2)	3)																							
4.REFERENCE NO.		1.The electrification (Chengchow-Paoki) (1)Electrification of the track and equipments of electricity. - Construction of a transformer substation, a track of 2,375km, 5 distribution lines. - Replace of a distribution line, etc. (2)Signalisation and communication equipment. (3)Construction of a station yard for goods wagon: 1.6 million sq.m. 2.The electrification and the construction of double track. (Hengyang Kwangchow) (1)Construction of double track(514km, 67 stations) - Construction of three tunnels. (2)Construction of station yards in four areas. (3)Electrification(155km) (4)Signalisation and communication equipment.																										
5.TYPE OF STUDY	F/S																											
6.COUNTERPART AGENCY	Planning and Statistics Bureau, Ministry of Railways	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 41.65 EIRR2) 30.12 EIRR3)	FIRR1) 19.40 FIRR2) 8.70 FIRR3)																							
7.OBJECTIVES OF STUDY	F/S for transport capacity reinforcement(double tracking electrification, structure reinforcement, etc.)	Conditions and Development Impacts: (Conditions) 1)Estimation of railway demand - Railway for long distance, -Roads for short distance 2)The electric locomotive " shan I " is considered to be the model. 3)The calculation of IRR: - Project life is 30 years. - Inflation was excluded from analysis.; - The freight charges are the revised price at December,1983.(20% increase) (Impacts) 1)The direct impacts: - Saving waiting time of passengers. - Decrease of financing costs of railway transportation of goods. 2)The indirect impacts: - Avoidance of traffic accident in road transportation. - Energy cost decrease; - Increase of employment.																										
8.DATE OF S/W	Jun. 1983					Imp. Period: Jan.1984-Dec.1988 .1984-1988																						
9.CONSULTANT(S)	Japan Railway Technical Service	10.STUDY TEAM				2.MAJOR REASONS FOR PRESENT STATUS																						
No.of Members 20 Period Jul.1983-Aug.1984(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;">81.11</td> <td style="text-align: center;">57.05</td> <td style="text-align: center;">24.06</td> </tr> </table>								Total M/M	Japan	Field	81.11	57.05	24.06	3.PRINCIPAL SOURCE OF INFORMATION														
		Total M/M	Japan	Field																								
81.11	57.05	24.06																										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	none	5. TECHNICAL TRANSFER		①, ②, ③, ④																								
12.EXPENDITURE	Total 207,700 (¥000) Contracted 203,558	The study term prepared and submitted to the counterparts technical reports(site reports, minutes of discussion,etc.).																										

和名 鄭州・宝鷄間複線鐵道電化計畫、衡陽・広州間鐵道複線化及び電化計畫

(F/S,D/D)

III. PRESENT STATUS OF STUDIED PROJECT

(Description)

Detailed designs were completed by the Ministry of Railways

OEFCF loans were approved and the project was duly implemented as follows.:

OEFCF Loan Agreements:		Zhengzhou
	Hengyang	- Baoji
	Gwangcheu	
Oct.1984	10,192	7,575
Aug.1985	26,822	13,258
Jun.1986	24,491	9,462
Jul.1987	8,789	31,396
Aug.1988		7,500

(million yen)

(FY1994 Domestic Survey)

Hengyang Guang-zhou

This project was completed in 1988 aiming at strengthening the transport capacity Zhengzhou-Baoji.

Of 684km between Zhengzhou and Baoji, the 269km section between Zhengzhou and San-men-xia was completed in 1986. After the construction of the remaining sections was promoted in accordance with the 7th five-year plan(1986-90), it was completed in 1991. This led to the great increase of the capacity of coal transport from northern Hebei and north of Wei-he to eastern districts.

In the execution of this construction, various kinds of technical guidance was conducted by short-term experts dispatched by JICA. Furthermore, a geological survey centering on geophysical exploration was conducted in the Nan-ling Tunnel between Heng Yang and Guang-Zhou as a joint work by Chinese and Japanese experts.

(FY1994 Overseas Survey)

- 1) Both the "Railway Electrification Project between Chengchow and Paoki" and the "Double Tracking and Electrification Project between Hengyang and Kwangchow" were realized based upon an OEFCF loan. (2nd round), which were divided into several times, and completed in 1987.
- 2) According to Japan's F/S, Chinese Ministry of Railways conducted D/D.
- 3) After the electrification, annual transportation capacity between Chengchow and Paoki was raised from 40 million to 60 million tons (50%up) by 80 electric locomotives purchased from Japanese firm.
- 4) Annual transportation capacity between Hengyang and Kwangchow was raised from 20 million to 40 million tons by the double tracking and electrification. Train speed was also fastened due to improvement of gradients and curves. The method of tunnel construction transferred at the time of Dayan Shan Tunnel has been utilized for subway construction as well as automation and reduction of other tunnel constructions.
- 5) Japan's railway-yard technology is not adequate for China due to the huge railway freight in China. Automation of the north yard at Chengchow was done based upon Canadian technology transfer.
- 6) Although cost reduction was attempted by local purchase of almost all instruments, materials and spare parts, since domestic prices of instruments and materials rise reflecting international market prices, cost reduction of this project was not successful. In some cases, imports were cheaper than domestic products.

PROJECT SUMMARY (F/S)

Compiled Mar. 1988
Revised Mar. 1995

ASO CHN/S 301/84

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 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	Improvement Project of Chimwangtao, Lieyunkang and Tsingtao Ports	1. Qinhuangdao 2. Lianyun 3. Qingdao																																			
3. SECTOR	Transportation/Port	2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description)																														
4. REFERENCE NO.		(US\$1,000)	1)	258,964	164,143																																
5. TYPE OF STUDY	F/S	(US\$1=251 yen)	2)	452,589	312,350		OCEF loans approved are as follows. <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Qinhuangdao</th> <th style="text-align: center;">Lianyun</th> <th style="text-align: center;">Qingdao</th> </tr> </thead> <tbody> <tr> <td>1984 Oct.</td> <td style="text-align: right;">4,631</td> <td style="text-align: right;">2,445</td> <td style="text-align: right;">2,203</td> </tr> <tr> <td>1985 Aug.</td> <td style="text-align: right;">3,723</td> <td style="text-align: right;">5,772</td> <td style="text-align: right;">3,937</td> </tr> <tr> <td>1986 Jun.</td> <td style="text-align: right;">7,011</td> <td style="text-align: right;">11,085</td> <td style="text-align: right;">2,620</td> </tr> <tr> <td>1987 Jul.</td> <td style="text-align: right;">3,451</td> <td style="text-align: right;">11,911</td> <td style="text-align: right;">8,683</td> </tr> <tr> <td>1988 Aug.</td> <td style="text-align: right;">3,184</td> <td style="text-align: right;">8,297</td> <td style="text-align: right;">13,043</td> </tr> <tr> <td>1989 May</td> <td style="text-align: center;">-</td> <td style="text-align: right;">7,490</td> <td style="text-align: right;">26,514</td> </tr> </tbody> </table> (million yen) 1989 Jan. Opening of operation on western Ding Berth of Qinhuangdao (FY1992 Overseas Survey) 1) Qinhuangdao Port 1985-1990 Completion of port facilities 1986-1990 Completion of water supply facilities 1991-1993 Target year of completion of railway The Chinese side acknowledges that construction works of the Phase 1 was basically completed. Construction of additional 6 berths in the Phase 2 was requested to the National Planning Committee. 2) Lianyun Port 1990.11 Timber Berth completed 1992.6 Container Berth completed 1992.12 Grain Berth completed 1993.10 Target year of completion on Break Water (FY1994 Domestic Survey) Jan. 1995: OCEF L/A was concluded (Qinhuangdao) Port E and F Berths Construction Project(II), 3,041 mil. Yen, 4th Stage Coal Terminal Construction Project(III), 7,178 mil. Yen). These loans will be paid for the materials and equipment needed for the construction of berthes.				Qinhuangdao	Lianyun	Qingdao	1984 Oct.	4,631	2,445	2,203	1985 Aug.	3,723	5,772	3,937	1986 Jun.	7,011	11,085	2,620	1987 Jul.	3,451	11,911	8,683	1988 Aug.	3,184	8,297	13,043	1989 May	-	7,490	26,514
	Qinhuangdao	Lianyun	Qingdao																																		
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6. COUNTERPART AGENCY	National Planning Committee, National Science and Technology Committee, Transport Department	3. CONTENTS OF MAJOR PROJECT(S)																																			
7. OBJECTIVES OF STUDY	Preparation for port development plan of 1990 as target year.	1) Qinhuangdao 2) Lianyun 3) Qingdao Break water 1,326m 3,170m 930m Berth (-12.5) 967m (Container) 560m (Coal) 295m (-10.0) 410m (Grain) 280m (Timber) 200m (Timber) 450m (General) 200m (sand) 215m Dredging 4,300,000cu.m 10,341,000cu.m 8,969,000cu.m Land Recla- 4,260,000cu.m 4,900,000cu.m 7,670,000cu.m																																			
8. DATE OF S/W	Jun. 1983	4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 27.90	FIRR1) 6.08	2. MAJOR REASONS FOR PRESENT STATUS High priority as a national project																														
9. CONSULTANT(S)	Overseas Coastal Area Development Institute	Imp. Period:		Jan. 1983-Dec. 1988	Jan. 1985-Dec. 1989	Jan. 1985-Jan. 1989																															
10. STUDY TEAM	No. of Members 19 Period Jul. 1983-Sep. 1984 (15 months)	Conditions and Development Impacts: Conditions: Projection of cargo volume in 1990 Qinhuangdao 6,730 thousand tons Lianyun 19,400 thousand tons Qingdao 36,000 thousand tons Development Impacts: Effective use of port facilities for import cargo such as grain, timber and general cargo, and for export cargo of energy resources such as coal.				3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ③, ④																															
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	none	5. TECHNICAL TRANSFER																																			
12. EXPENDITURE	Total 297,053 (¥'000) Contracted 268,748	Preparation of a report in cooperation with counterpart																																			

和名 秦皇島港丙丁バース建設、連雲港廟嶺二期工事、青島港前湾港区建設工事

[F/S,D/D]

PROJECT SUMMARY (F/S)

ASO CHN/S 303/84

 Compiled Mar.1988
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	China	1. SITE OR AREA		Tianjin (area 46.3 sq.m : pop.778), Shanghai (area 35.3 sq.m : pop.1,181), and Guangzhou (area 318.3 sq.m : pop.5,987) * Population: ten thousands, 1982)		1. PRESENT STATUS	<input checked="checked" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="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 Tianjin, Shanghai and Guangzhou Telecommunication Expansion Project		2. PROJECT COST					
				1) (US\$1,000)	207,570	33,466	174,104
				2) (US\$1=251 yen)			
				3)			
3. SECTOR Communications & Broadcasting/Telecommunication		3. CONTENTS OF MAJOR PROJECT(S)				(Description) The project was completed with OECF financing as follows. The total foreign currency cost of the project amounted to 35 billion yen (437 billion yen estimated in the JICA study). Oct.1984 OECF L/A signed (1,154 million yen) Aug.1985 OECF L/A signed (9,235 million yen) Jun.1986 OECF L/A signed (7,916 million yen) Jul.1987 OECF L/A signed (9,398 million yen) Oct.1987 Detailed design completed (Japan Telecommunications Engineering and Consulting) Aug.1988 OECF L/A signed (7,297 million yen) (FY1994 Domestic Survey) No information.	
4. REFERENCE NO.		1) Exchange	Tianjin	Shanghai	Guangzhou		
5. TYPE OF STUDY F/S		Terminals	22	9	10 (Stations)		
6. COUNTERPART AGENCY Ministry of Posts and Telecommunications of the People's Republic of China		2) Transmission	40,000	70,000	40,000 (areas)		
		3) Subscriber cable	22	9	10 (stations)		
			(1226km)	(2146km)	(2556km)		
		4) Junction cable	19	20	12 (areas)		
			(75.2km)	(97.2km)	(82.2km)		
		5) Mobile Communication	0	0	0		
8. DATE OF S/W Jun. 1983		Imp. Period: 1985-1988					
9. CONSULTANT(S) Japan Telecom. Eng. and Consulting Service		4. FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes		EIRR1) 14.60 EIRR2) EIRR3)	FIRR1) 10.40 FIRR2) FIRR3)		
10. STUDY TEAM No. of Members 27 Period Jul. 1983-Jun. 1984 (12 months)		Conditions and Development Impacts: Prerequisites for IRR calculation: The demand in 1985, 1990 and 2000 is forecasted based on the growth of population, the rate of economic growth and city planning taking into account telephone demand up to 1982. The project life was estimated at 20 years. Development effects: Making economic activities, business and administration efficient. Substitution effect by means of transportation. Economy of energy. Making the distribution rational and efficient, and Enrichment of national life and education.					
				Total M/M	Japan	Field	
				77.04	42.31	34.73	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY none		5. TECHNICAL TRANSFER				2. MAJOR REASONS FOR PRESENT STATUS	
		1. OJT: China Telecommunications Seminar (November 1984, in Tokyo; October 1986, in Beijing); 2. Acceptance of trainees: two counterparts (42 days as of October 1984, JICA); and 3. Other: acceptance of technical business mission (three times-February and September 1985, July 1987; 7-8 persons)				1. Size of effect: Being recognized as a national project in order to establish efficient economy. 2. Degree of priority: National project 3. Other: Strong support by the Japanese agencies concerned	
12. EXPENDITURE		3. PRINCIPAL SOURCE OF INFORMATION					
						①, ④	
Total 182,687 (¥000)							
Contracted 168,036							

和名 天津・上海・広州電気通信網改造計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

ASO CHN/A 301/84

Compiled Mar.1990

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT								
1.COUNTRY	China	1.SITE OR AREA				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 Sanko Heigen Ryutokyo Model Area Agricultural Development Project		East region of Hei Long Jiang Province, Central part of Quan San Jiang Plain (arable land area 400million ha), Model District of Bao Qing Xian (6 million ha)												
3.SECTOR Agriculture/General		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost								
4.REFERENCE NO.				1) 320,000	220,000	100,000								
5.TYPE OF STUDY		F/S		(US\$1,000) (US\$1=1.98 Yuan in 1983)										
6.COUNTERPART AGENCY Ministry of Agriculture, Animal Husbandry and Fishery		3.CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1991 Overseas Survey) The study result has incorporated in the provinces 8.5 Plan with planned project budget of 3.47 bil. yuan. In Jan.92, the National Water Supply Dept. decided to provide a financial support to the project. A request has been made to the National Planning Committee for the utilization of foreign fund, and presently in process toward ratification. (FY1992 Overseas Survey) The entire plan of Sanko Heigen Development Project was designed between 1974 and 1977. Rehabilitation projects of five rivers at the Sanko Heigen are under way. About a half of the construction work was completed with the financial support of the World Bank and the local funds. The lower parts of the river has been improved. Construction of the Ryutokyo dam is necessary to prevent flood in the area of Ryutokyo. Therefore, a request for the total amount of investment of 3.47 billion yuan was made to the National Planning Committee. The National Planning Committee approved the implementation of the project with budget of 3.45 billion yuan in Oct., 1992. The foreign funds can be utilized to finance the project if the project is implemented after 1995. The Local Water Supply Department plans to send a mission to Japan for the negotiation of Japan's Grant Aid in Feb., 1993.								
7.OBJECTIVES OF STUDY		- Irrigation Area : 46,170 ha - Filledam : Crest 1,478,000 cu.m - Diversion Weir : 2 places (Wang Jin Shan 75m, Tou Dao Crest 45m) - River Improvement : 99 km - Drainage Construction : 158.8 km - Irrigation Construction : 172.3 km - Road Construction : 137 km - Farm Land Improvement : 46,170 ha * Implementation period below is 2 years for design and 10 years for construction.												
8.DATE OF S/W		Jul.1981		Imp. Period:										
9.CONSULTANT(S) Agricultural Development Consultants Association		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 11.56 EIRR2) EIRR3)			FIRR1) FIRR2) FIRR3)						
10.STUDY TEAM		Conditions and Development Impacts: Conditions: The ratio of foreign cost of the projects, 31.5%, is summed up by opportunity mainly a part of machinery and material cost, and foreign cost of consultants. Development Impacts: Farm products 55,822,700 Gen. Live-stock products 24,831,800 Gen. making a total amount of 80,654,500 Gen. In addition, they contribute to regional development including removal of flood damage, stabilization of community life, etc. * EIRR above is for the entire plan.												
No.of Members 68 Period Aug.1981-Mar.1984(32 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;">276.91</td> <td style="text-align: center;">123.81</td> <td style="text-align: center;">153.10</td> </tr> </table>		Total M/M	Japan			Field	276.91	123.81	153.10			
Total M/M	Japan	Field												
276.91	123.81	153.10												
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER						2.MAJOR REASONS FOR PRESENT STATUS						
12.EXPENDITURE		1.Training in Japan: 3 times, total 27 persons. 2.Training during the study period: several times						3.PRINCIPAL SOURCE OF INFORMATION						
Total 931,354 (¥000) Contracted 758,606						①②③								

和名 三江平原龍頭橋典型区農業開発計画

[F/S,D/D]

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1993

ASO CHN/A 302/84

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 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	Basic Plan on the Sanjiang Plain Agricultural Experiment Station	Harbin and Jiamusi Cities in Hei Long Jiang Province, Bao Qing Xian					
3.SECTOR	Agriculture/General	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)		8,000	3,000	5,000	
5.TYPE OF STUDY	F/S	US\$1=2.5Yuan in 1984		1) 2) 3)			
6.COUNTERPART AGENCY	Committee on Science and Technology, Hei Long Jiang Province	3.CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1992 Overseas Survey) After the completion of (D/D) of basic planning in Mar.1985, seven long-term experts and some dozens of short-term experts were dispatched as technical cooperation. Field improvement work, setting up of machineries and equipments were completed. The basic study on agriculture in a cold area was started in September 1986 and completed in March 1993. The Chinese side hopes to extend the technical cooperation for this project.	
7.OBJECTIVES OF STUDY	Technical Study mainly for irrigation and damages by cold weathen.	Following researches will be conducted to get basic technical data for agricultural development in San Jiang Plain					
8.DATE OF S/W	Aug.1984	1.Research on breeding and cultivation of cold-proof seeds 2.Research on farm land improvement in a cold area with low humidity					
9.CONSULTANT(S)	Agricultural Development Consultants Association	After the final report was submitted on March 1985, a pilot firm was established. Technical cooperation had been carried out for 5 years since then. Now all are transferred and managed by China's counterpart.					
10.STUDY TEAM	No. of Members 9 Period Sep.1984-Mar.1985 (7 months)	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts: Until recently Chinese way of research was inflexible because of rigidity of coverage by each ministry, therefore there was no idea of integrating irrigation and agricultural projects. This kind of integrated experiment stations started for the purpose of development of San Jiang Plain is meaningful since it indicates perspective of Chinese experiment station. This is also indispensable to implement agricultural development in San Jiang Plain smoothly.				2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE	Total 54,180 (¥000) Contracted 46,378	5.TECHNICAL TRANSFER					
		Cooperation with related experiment stations by establishing a new organization under Committee on Science and Technology of Hei Long Jiang Province. Technical Transfer is being alone through operation between irrigation research institute and integrated agricultural research					

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1995

ASO CHN/S 305/86

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	China	1.SITE OR AREA		Shanghai and its suburbs(Shanghai new station-Xin Longhua)		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"/> Discontinued or Cancelled <input type="checkbox"/> Processing						
2.NAME OF STUDY	Subway Project of Shanghai	2.PROJECT COST		Total Cost	Local Cost			Foreign Cost					
		(US\$1,000)	1)	1,170,754	861,226								
		(US\$1=159 yen)	2)										
			3)										
3.SECTOR	Transportation/Railway	3.CONTENTS OF MAJOR PROJECT(S)				(Description) -OECP loan was not requested. -West Germany agreed to finance in January 1989. -Additional finance was obtained from USA and France. -The review of the F/S and the basic designs were undertaken by the Chinese authorities. (FY1991 Overseas Survey) -The total planned budget for the project is 2,543 bil. yuan, of which 1.58 bil. yuan is domestic financing and US\$262 mil. is foreign borrowing. (FY1992 Domestic Survey) -The subway plan (Route 1, South-north line) was once proposed 13.5km between Xin Longhua - Shanghai. But it was extended to 15 km because one section was added between Xin Longhua and Jin-Jiang Dong Yuan. 6.6km between Shu Jia hui and Jin-Jiang Dong-Yuan was finished and opened May 1895. The rest part will be finished and opened early 1995. (FY1994 Domestic Survey) No additional information. (FY1994 Overseas Survey) 1) Reconciliation of this F/S, D/D and construction were done by China. All processes of construction were finished in October 1994 and all facilities will be ready to be used in May 1995. 2) Foreign fund(US\$ 26.2 billion) was mainly financed by Germany. Trains, telecommunication devices, station facilities, and electric facilities were also purchased from Germany. Loans from the United States and France were also made. Traffic-signal-control systems, disaster-prevention and waterproof facilities were purchased by US. loans, and cutting/sharpening machines were by French loans. 3) Local fund was previously prepared by Shanghai Public Bureau of Subways. Afterwards a municipal bureau under Shanghai City Office took over the position to procure and repay the fund since September 1994. The municipal bureau is an original organization of Shanghai City to operate and manage funding for the projects under the jurisdiction of the City. 4) As the report of this F/S is studied in detail, some part of it could be utilized for D/D. Moreover, this F/S report was translated into Chinese and used as a textbook for other cities' subway projects.							
4.REFERENCE NO.		Construction of a express-railway line (underground line) between Xinlonghua station and Shanghai new station --- Major purpose is the improvement of the traffic situation of Shanghai city. - Between Xinlonghua and Shanghai new; 13.5km - Structures; station part middle part sealed tunnel - No. of stations; 13, management facilities (including air conditioner, prevention of disaster system), passenger control facilities. - line facilities; floors, ties, rails, etc. Electric facilities; power transformation facilities, contact wire facilities, power transmission and distribution wire facilities, signalling facilities planning, telecommunication facilities. - Rolling stocks; section to be opened (the year 1991)138 cars. Section to be planned north-south line facilities (xinlonghua -Ji Yun Lu) (the year 2013) 392 cars. - Rolling stock bases 1) base facilities; facilities for main pare inspection or overhaul, temporary repair, trip inspection, regular inspection, car cleaning facilities, storage track. 2) Inspection and repair facilities; management office, workshop building, wheel grinding shop, maintenance base, other buildings. - Operational safety and traffic control systems; automatic- signal block system, cab signal system, 1st-type electric relay system, automatic train controll system (CS-ATC), centralized train control system (CTC).											
5.TYPE OF STUDY	F/S												
6.COUNTERPART AGENCY	Science and Technology Commission of Shanghai Municipality, Bureau of Shanghai Municipal Engineering Administration, etc.												
7.OBJECTIVES OF STUDY	F/S for constructing a subway to improve urban transport in Shanghai												
8.DATE OF S/W	Jan.1985												
9.CONSULTANT(S)	Japan Railway Technical Service												
10.STUDY TEAM	No.of Members 13 Period May.1985-Aug.1986(15 months)												
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">81.58</td> <td style="text-align: center;">52.17</td> <td style="text-align: center;">29.41</td> </tr> </table>							Total M/M	Japan	Field	81.58	52.17	29.41
Total M/M	Japan							Field					
81.58	52.17					29.41							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY													
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">196,815 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">191,021</td> </tr> </table>	Total	196,815 (¥'000)	Contracted	191,021								
Total	196,815 (¥'000)												
Contracted	191,021												
		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 8.70	FIRR1) 1.14							
				EIRR2)	FIRR2)								
				EIRR3)	FIRR3)								
		Conditions and Development Impacts: 1. Preconditions Transport demand was estimated for the years from 1983 to 2020. As for rolling stock gauge, axle load, car dimensions, etc., standard values in Japan were used as samples. EIRR: (1)Inflation; not considered. (2)Exchange rate; 1 yuan= 85yen. (3)Residual value; earmarked for the last year of the project and residual value (4) Period of analysis; up to 2020 FIRR: (1)Sample price for analysis; market price. (2)Tarrif for importing materials; not considered (3)Introduction for automatic system for ticket examining must be considered after eliminating accumulated deficit. 2. Development impact: Improvement of road traffic congestion											
		5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS							
		1. OJT: A seminar was held. 2. Training of counterpart personnel: One person for one month. 3. Two Chinese experts observed the status of subway construction and operation				Although loans from Japan had been originally planned, this was not accepted by the Chinese government.							
						3.PRINCIPAL SOURCE OF INFORMATION							
						①, ②, ③							

和名 上海都市快速鉄道整備計画

{F/S,D/D}

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1995

ASO CHN/S 304/86

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	Port Development Project in Dapeng Bay	Dapeng Wang, Kwang Tung prefecture					
3. SECTOR	Transportation/Port	2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4. REFERENCE NO.		(US\$1,000)	1)	102,283	58,113	44,170	
5. TYPE OF STUDY	F/S	(US\$1=162Yen)	2)				
6. COUNTERPART AGENCY	Ministry of Transportation		3)				
7. OBJECTIVES OF STUDY		3. CONTENTS OF MAJOR PROJECT(S)				(Description) The project is scheduled to be executed by the OECF loan(1990-1994) 1991.1 : OECF loan agreement signed. (7,613 million Jap. yen) 1991.10 : OECF loan agreement signed. (3,691 million Jap. yen) 1992.10 : OECF loan agreement signed. (3,377 million Jap. yen) Major components to be financed: 1) Construction of 6 berths handling cargo volume of 2.8 million tons (1 container berth, 1 multi-purpose berth, 1 bulk berth, 3 general berth) and port facilities 2) Railway(24km) 3) Road(72km) 1988 : Commencement of reclamation and dredging 1989.10 : Opening of trial operation on 3 berths (1,000; 3,000; 10,000 tonnage) 1990 : Commencement of construction of railway and road (FY1992 Overseas Survey) - The Phase 1 construction of 2 container berths and 1 multi-purpose berth is in progress. (Completion is scheduled at the end of 1993) - Construction of road(72km) is in progress. (Completion is scheduled at the end of 1993) - Construction of railway(25km) is in progress. (Completion is scheduled at the end of 1993) (FY1994 Domestic Survey) No additional information.	
Zoning plan of the coastal area Long term M/P F/S on the development plan aiming at the year 1990		The 1st Phase Plan for the year of 1990 is as follows:					
8. DATE OF S/W	Oct. 1985	4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility:	EIRR1)	12.80	
9. CONSULTANT(S)	Overseas Coastal Area Development Institute Toko Engineering Consultants Ltd.			Yes	EIRR2)	FIRR1)	
10. STUDY TEAM					EIRR3)	FIRR2)	
No. of Members 13						FIRR3)	
Period Jan. 1986-Mar. 1987 (15 months)				Conditions and Development Impacts:			
Total M/M				[Conditions] Only the first plan is subject of the IRR calculation. The project life is 35 years. The amount of cargo for the year of 1990 is estimated as 1,660,000 tons.			
Japan				[Development Impacts]			
Field				1. Direct benefits			
72.60				1) To save the cost of waiting time.; 2) To save the time of cargo transportation; 3) To save the cost of sea transportation due to an increase in ship size resulting from the port widening.; 4) To save the cost of transportation of coal, containers, and building materials by changing from land transportation to sea transportation.			
39.80				2. Indirect benefits			
32.80				1) Promotion of industrial development in the eastern area of Shenzhen city			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY				2) Promotion of the urban development of Yantian			
none				3) Increase of the job opportunities			
				4) Promotion of economic development in Huanan			
				5. TECHNICAL TRANSFER			
				OUT(on the job Training) by the Seminar.			
12. EXPENDITURE				2. MAJOR REASONS FOR PRESENT STATUS			
Total							
Contracted				3. PRINCIPAL SOURCE OF INFORMATION			
181,859 (¥'000)				①, ②, ③, ④			
177,438							

和名 大鵬灣港灣整備計画

(F/S,D/D)

PROJECT SUMMARY (M/P)

Compiled Mar.1990
Revised Mar.1995

ASO CHN/S 101/87

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	Shanghai Air Pollution Control	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) (FY1991 Overseas Survey) Although there is no marked progress toward the implementation of the proposed projects, the study results led to the establishment of the Shanghai City Program for the Protection against Air Pollution. (FY1994 Domestic Survey) No additional information.														
		(US\$1,000)	1) 127,000																	
		(US\$1=125Yen)	2)																	
3.SECTOR	Administration/Environmental Problems	3.CONTENTS OF MAJOR PROJECT(S)	- Installation of desulfurization equipment at the power plant - Large-scale concentrated power supply (for factories in the western part of Shanghai City) - Introduction of various pollution control devices and measures at 301 factories of Shanghai Proposed master plan for air pollution control leading to the year 2000 is follows:																	
4.REFERENCE NO.		Reduction policy	Factory	Reduction of SOx (ton/year)	Initial Investment (million year)															
5.TYPE OF STUDY	M/P	Energy Saving,	58	496	14.53															
6.COUNTERPART AGENCY	Department of Environment, Municipality of Shanghai	Coal Pelleting,	14	196	0.84															
7.OBJECTIVES OF STUDY	Air Pollution Control	Fuel Change (Coal to oil),	1	12,732	0.01															
8.DATE OF S/W	Oct.1985	Factory removal,	4	2,519	225.63															
9.CONSULTANT(S)	Pacific Consultants International Research, Analysis and Computing	Floating floor combustion,	133	23,087	389.80															
10.STUDY TEAM	No.of Members 16 Period Jan.1986-Feb.1988(26 months) <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Total M/M</td> <td style="width: 30%;">Japan</td> <td style="width: 30%;">Field</td> </tr> <tr> <td style="text-align: center;">78.79</td> <td style="text-align: center;">39.21</td> <td style="text-align: center;">39.58</td> </tr> </table>	Total M/M	Japan	Field	78.79	39.21	39.58	4.CONDITIONS AND DEVELOPMENT IMPACTS	(Conditions) The amounts of coal/oil consumption are expected to be follows: (mill.ton) <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">1985</td> <td style="text-align: center;">2000</td> </tr> <tr> <td>coal</td> <td style="text-align: center;">18</td> <td style="text-align: center;">52</td> </tr> <tr> <td>oil</td> <td style="text-align: center;">3</td> <td style="text-align: center;">2.5</td> </tr> </table> (Impacts) The exhaust amount of SO ₂ would increase from 243,000 ton (1985) to 567,000 ton (2000) in case that no policy is carried out. It is expected that the concentration of SO ₂ in the most city area can't meet the 3rd standard of China's environmental policy (industrial area), nothing to say the 2nd standard (resident/commercial area). But the proposed projects will reduce about 300,000 ton of SO ₂ so that most area in the city can 2nd standard and no area under 3rd standard. In the environmental aspect, there is expectation of environmental improvement; however, there is very little expectation of economical investment impact. In other words, it is a key point for project implementation whether the Shanghai City Municipality is able to afford the expense or not.				1985	2000	coal	18	52	oil	3	2.5
Total M/M	Japan	Field																		
78.79	39.21	39.58																		
	1985	2000																		
coal	18	52																		
oil	3	2.5																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER	Hold seminar on air pollution control; On the job training and short term training in Japan for counterparts on air pollution analysis, and Guidance of operation of equipment such as vehicle mounted air pollution																	
12.EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Total</td> <td style="width: 30%;">385,188 (¥000)</td> </tr> <tr> <td>Contracted</td> <td style="text-align: center;">224,269</td> </tr> </table>	Total	385,188 (¥000)	Contracted	224,269	2.MAJOR REASONS FOR PRESENT STATUS														
Total	385,188 (¥000)																			
Contracted	224,269																			
		3.PRINCIPAL SOURCE OF INFORMATION	①, ②																	

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1995

ASO CHN/S 308/87

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 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 Hokkou Hirakyo Multipurpose Dam Construction Project		Hokkou River basin, Guangzhou Province					
3.SECTOR Social Infrastructures/Water Resource Development		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.				(US\$1,000) 1) 298,500	174		
5.TYPE OF STUDY		F/S		(US\$1=160Yen) 2)			
6.COUNTERPART AGENCY Pearl River Water Resources Commission		3.CONTENTS OF MAJOR PROJECT(S)		3)			
7.OBJECTIVES OF STUDY F/S on flood control, navigation and power generation.		- Catchment area : 34.097km ² - Effective storage volume : 1,459 x 10 ⁶ m ³ - Rockfill dam 1,887.5m long, 50m high 3,568,000 m ³ in volume - 16 radial gates (14m wide and 19.5m high) for spillway, 38,100m ³ in concrete volume - Power plants (4 units, 43.5MW each), surface type 100m(L) x 88m(W) Bulb turbine - Navigation lock, lock with single chamber type, 190m(L) 16m(W), minimum draft depth 3m, 281,000m ³ in concrete volume - River diversion, trapezoidal channel type, design flood 15,500 m ² /s, first stage cofferdam 1,560,000m ³ , second stage cofferdam 710,000m ³ - Construction, period - 7 years, cost 1,074,456 x 10 ³ Chinese yen (US\$ 298.5 x 10 ⁶) base year 1986				(Description) The project was included in the application list for the Third Yen Loan (1990-1994), but was not approved. (FY1991 Overseas Survey) Presently the provincial government is conducting a preliminary design mostly in accordance with the F/S result. The project is planned to be implemented as soon as the approval of the central government is issued, with budget from the provincial fund and a national subsidy. (FY1994 Domestic Survey) No progress in the form of a project.	
8.DATE OF S/W		Dec.1985		Imp. Period: Jan.1989-Oct.1995			
9.CONSULTANT(S) Nippon Koei Co., Ltd. INA Civic Engineering Consultants Co., Ltd.		4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes		EIRR1) 13.90 EIRR2) EIRR3)	FIRR1) 6.70 FIRR2) FIRR3)		
10.STUDY TEAM No. of Members 13 Period Jun.1986-Oct.1987(17 months)		Conditions and Development Impacts: Conditon: Benefits were calculated for flood control, power generation and river navigation. Development Impacts: - Reduction of flood damages - Increased supply of power - Savings of labor and fuel costs by shortening the distance and hours necessary for river travel Environmental Impacts: As a result of environmental impact study, it has come to a conclusion that the development of the project was considered to be unlikely to be a cause of serious impact there to.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY						2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE				(FY 1993 Domestic Survey)			
Total 225,097 (¥'000)		Contracted 97,907					

和名 北江飛來峽多目的ダム建設計画

(F/S,D/D)

PROJECT SUMMARY (Basic Study)

Compiled Mar.1990
Revised Mar.1995

ASO CHN/S 501/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1.COUNTRY	China	1.SITE OR AREA	Tianjin City		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued	
2.NAME OF STUDY Groundwater Development Project in Tianjin City		2.PROJECT COST		Total Cost	(Description) The Government included the D/D on ground water development in the request for the Third Yen Credit (1990 - 1994), but has been unsuccessful. (FY1991 Overseas Survey) Due to a city's own project, the problem of water supply in Tianjin for both the civil life and industrial development has basically been solved. Accordingly there is no planned project based on the study, the studied areas still having a role as potential water resources for future urban and industrial development. (FY1994 Domestic Survey) No progress. It seems that the water demand is not increased more than estimated.		
3.SECTOR Social Infrastructures/Water Resource Development				Local Cost			
4.REFERENCE NO.				Foreign Cost			
5.TYPE OF STUDY		Basic Study		(US\$1,000)			
6.COUNTERPART AGENCY Science and Technology Council and Dept. of Geology and Mining of Tianjin City				1)			
7.OBJECTIVES OF STUDY Survey of water resources to develop a water supply system		3.CONTENTENTS OF MAJOR PROJECT(S) The study examined the possibility of water supply to four industrial development areas in Tianjin City. However, the chinese authorities plan to work on the project from their own resources, and they have not yet made the detailed design.		2)			
8.DATE OF S/W		Jun.1985					
9.CONSULTANT(S) Nippon Koei Co., Ltd. Japan Engineering Consultants Co., Ltd.		4.CONDITIONS AND DEVELOPMENT IMPACTS After the study examined, the authorities identified one site ()which will supply 50 million cu.m of water per annum.					
10.STUDY TEAM No.of Members 7 Period Nov.1985-Dec.1987(26 months)							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
12.EXPENDITURE		5.TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION			
Total 293,643 (¥'000)		OJT and JICA training on water resource simulation in Japan		① ②			
Contracted 113,258							
				2.MAJOR REASONS FOR PRESENT STATUS			

和名 天津市地下水源開発計画

(M/P,Basic Study,Other)

PROJECT SUMMARY (M/P)

Compiled Mar.1990
Revised Mar.1995

ASO CHN/S 102/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS																								
1.COUNTRY	China	1.SITE OR AREA	Hainan Island (pop. 5.98 million, 33,900 sq.km)			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued																						
2.NAME OF STUDY	Hainan Island Integrated 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> <td style="width: 30%;"></td> </tr> <tr> <td>(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">20,937,500</td> <td></td> <td></td> </tr> <tr> <td>(US\$1=3.2 yuan)</td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost		(US\$1,000)	1)	20,937,500			(US\$1=3.2 yuan)	2)				(Description)					
	Total Cost	Local Cost	Foreign Cost																										
(US\$1,000)	1)	20,937,500																											
(US\$1=3.2 yuan)	2)																												
3.SECTOR	Development Plan/Integrated Regional Development Plan	3.CONTENTS OF MAJOR PROJECT(S)	Based on the nation's policy which is "open-market", the basic strategy of this project is to grow the island as the nation's largest open-economy area. - Agricultural development (upland crops, irrigation development, high-profit tropical crops) - Mining and industry (agro-industries, processing of mineral products, wood and fishery products, export products industries) - Tertiary industries (tourism, development of core cities) - Energy (natural gas development, power) - Selection of five economic development areas - Establishment of total traffic control system in Haikou - Development of Eastern Greater Haikou (construction of a bridge over Nanto-ko river)			1) Based on the study, OECF loans have been approved as follows. - East trunk road improvement (under construction) Jan.1991 OECF L/A signed (7.2 billion yen) Oct.1991 OECF L/A signed (Stage II, 2.6 billion yen) To be completed in June 1994 - Deep-sea berth of Haikou Port (under construction) Oct.1991 OECF L/A signed (2,589 million yen) To be completed in Dec. 1993 - 3 berths (20,000 DWT) of Yangpu Port OECF (5,200 million yen) - Telecommunication development Jan.1991 OECF L/A signed (5 billion yen) Oct.1991 OECF L/A signed (4.17 billion yen) To be completed in Dec. 1994. 2) The report was translated into English, and the following assistance have been offered. - World Bank (Dam construction, agricultural development, regional development) - ADB (studies on the energy sector and environmental conservation) - UNDP (studies on economic policy reforms) 3) Activities toward the development of infrastructure and resources have been started in two core cities following the proposals of this report. (FY 1993 Domestic Survey) 4) Development of business area and road network based on the M/P of Haikou City. 5) Development of the trade center area of Haikou. 6) Development the area used to be Haikou airport. (FY1991 Overseas Survey) No additional information. (FY1994 Domestic Survey) No information.																							
4.REFERENCE NO.																													
5.TYPE OF STUDY	M/P																												
6.COUNTERPART AGENCY	National Planning Commission Dept. of Land, Province of Guangdong and Office of Integrated Development, Hainan District																												
7.OBJECTIVES OF STUDY	Formulation of a master plan through 2005																												
8.DATE OF S/W	Dec. 1985	4.CONDITIONS AND DEVELOPMENT IMPACTS	Basic strategies: 1) Sophistication of the industrial structure (from agriculture to industry, tourism and various services) 2) Formation of growth centers and wider economic areas based on the open market system 3) Infrastructural development in accordance with 1) & 2) Development targets (in billion yuan): <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%; text-align: center;">1995</td> <td style="width: 10%; text-align: center;">2005</td> <td style="width: 30%;"></td> </tr> <tr> <td>Gross Regional Product</td> <td style="text-align: center;">16.0</td> <td style="text-align: center;">34.4</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">(growth 10.3%/year)</td> <td style="text-align: center;">(growth 8.0%/year)</td> <td></td> </tr> <tr> <td>Gross Agri. Product</td> <td style="text-align: center;">5.1</td> <td style="text-align: center;">8.7</td> <td></td> </tr> <tr> <td>Gross Indus. Product</td> <td style="text-align: center;">5.2</td> <td style="text-align: center;">12.6</td> <td></td> </tr> <tr> <td>Gross Product of Tertiary Sector</td> <td style="text-align: center;">5.9</td> <td style="text-align: center;">13.1</td> <td></td> </tr> </table>				1995	2005		Gross Regional Product	16.0	34.4			(growth 10.3%/year)	(growth 8.0%/year)		Gross Agri. Product	5.1	8.7		Gross Indus. Product	5.2	12.6		Gross Product of Tertiary Sector	5.9	13.1	
	1995	2005																											
Gross Regional Product	16.0	34.4																											
	(growth 10.3%/year)	(growth 8.0%/year)																											
Gross Agri. Product	5.1	8.7																											
Gross Indus. Product	5.2	12.6																											
Gross Product of Tertiary Sector	5.9	13.1																											
9.CONSULTANT(S)	International Development Center of Japan Pacific Consultants International																												
10.STUDY TEAM	No. of Members 22 Period Mar. 1986-Mar. 1988 (19 months)																												
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%; text-align: center;">Japan</td> <td style="width: 10%; text-align: center;">Field</td> <td style="width: 30%;"></td> </tr> <tr> <td>Total M/M</td> <td style="text-align: center;">42.50</td> <td style="text-align: center;">110.91</td> <td></td> </tr> <tr> <td>153.41</td> <td></td> <td></td> <td></td> </tr> </table>		Japan	Field		Total M/M	42.50	110.91		153.41				2.MAJOR REASONS FOR PRESENT STATUS															
	Japan	Field																											
Total M/M	42.50	110.91																											
153.41																													
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																													
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%; text-align: center;">443,011 (¥'000)</td> </tr> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td style="text-align: center;">414,792</td> </tr> </table>		443,011 (¥'000)	Total		Contracted	414,792	5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION	①、②、④																			
	443,011 (¥'000)																												
Total																													
Contracted	414,792																												

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1990

Revised Mar.1995

ASO CHN/S 201B/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	China	1.SITE OR AREA	Dalian Port(1986 throughput of 44.3 million tons) and Daiyou Bay			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	Dalian Port Development Project	2.PROJECT COST (US\$1,000)	M/P 1) 2) F/S 1) 2) 3)	Local Cost 185,020	Foreign Cost 105,820	(Description) Construction of 4 berths in the first half of the Phase 1 Plan were completed by the World Bank finance. Schedule of the Phase 1: 1987.8 Commencement of shore protection works 1991 Opening of trial operation on a container berth and a multi-purpose one. 1992.12 Opening of operation on all 4 berths (FY1992 Overseas Survey) The loan agreement of 6 berths in the Daiyou Bay has not been realized due to the following reasons. 1)The loan agreement is delayed due to the Tianamen massacre. 2)Total amount of the OECF's finance regarding port development project has not been increased much since 1990. 3)Each port has own urgent projects, and its degree of urgency differs among ports. (FY1994 Domestic Survey) No additional information.	
3.SECTOR	Transportation/Port	3.CONTENTES OF MAJOR PROJECT(S)					
4.REFERENCE NO.		<M/P> (1)Construction of a new port in the Daiyou Bay by the year 2000 (15 berths, breakwater, access railway and road) (2)Construction of the new port by the year 1995 (10 berths and access railway and road) (3)Improvement of the old Dalian Port (berth for passenger boats, wharves, information system for container management) <F/S> (1)Wharfs (1,440 m) Berths 2(50,000DWT) 3(20,000DWT) 1(15,000DWT) (2)Temporary and reclamation revetment (1,150 m) (3)Dredging (5,145 m) (4)Reclamation by land excavation (3,070 m) (5)Reclamation by sea-bed sediment (772 m) (6)Pavement of roads and yards (250,800 sq.m)					
5.TYPE OF STUDY	M/P+F/S						
6.COUNTERPART AGENCY	Traffic Dept., Dalian Port Authority	Imp. Period: 1990-.1994					
7.OBJECTIVES OF STUDY	Specific improvements for Old Port and a development plan for a New Port at Daiyu Bay	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 23.76 EIRR2) EIRR3)	FIRR1) 3.70 FIRR2) FIRR3)		
8.DATE OF S/W	Nov.1986	Conditions and Development Impacts: <M/P>[Conditions] The cargo amount of the Dalian port is estimated as 75,850,000 tons in the year of 2000. The new port is estimated to handle 8,510,000 tons. [Development Impacts] 1)Promotion of external trade. 2)To smooth the goods and material transportation. 3) Development of northeastern area. <F/S>[Conditions] The project life is 35 years. The amount of cargo in 1995 is estimated as 63,860,000 tons and the amount for the new port is to be 5,860,000 tons. [Development Impacts] 1)To save the cost of waiting and cargo handling. 2)To save the cost of sea transportation and land transportation. 3)Promotion of industrial development and urban development in the economical & technical development areas. 4)Increase of job opportunities. 5) Development of northeastern area.					
9.CONSULTANT(S)	Overseas Coastal Area Development Institute Nippon Koei Co., Ltd.						
10.STUDY TEAM	No.of Members 17 Period Apr.1987-Oct.1988(18 months)	5.TECHNICAL TRANSFER Seminars carried out in China and technical transfer in Japan.					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Total M/M</td> <td style="width: 30%;">Japan</td> <td style="width: 30%;">Field</td> </tr> <tr> <td style="text-align: center;">99.70</td> <td style="text-align: center;">52.80</td> <td style="text-align: center;">46.90</td> </tr> </table>							
Total M/M	Japan	Field					
99.70	52.80	46.90					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	3.PRINCIPAL SOURCE OF INFORMATION ①, ③					
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total</td> <td style="width: 40%;">303,894 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>240,779</td> </tr> </table>					Total	303,894 (¥'000)
Total	303,894 (¥'000)						
Contracted	240,779						
2.MAJOR REASONS FOR PRESENT STATUS							

PROJECT SUMMARY (M/P+F/S)

ASO CHN/A 201B/88

Compiled Mar.1990

Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	China	1.SITE OR AREA	8 villages and 6th regional cattle breeding examination center of Minsan which surround east Rosei village of Min district of Kanshuku Region (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	Lujingxiang Model Stock-farming Project in Gansu Province	2.PROJECT COST	M/P 1) 17,765 Local Cost (US\$1,000) 2) 7,208	F/S 1) 11,313 Foreign Cost 2) 3,796 3) 3,412	
3.SECTOR	Animal Husbandry/Animal Husbandry	3.CONTENTS OF MAJOR PROJECT(S)	<M/P> 1. Grassland establishment: meadow 6,444ha, pasture 899ha 2. Road development for grassland management and marketing : asphalt pavement 48.5km, sediment pavement 106.1km 3. Fence setting for proper management of tame pasture 412km 4. Introduction of machineries for grassland management and meadow cutting: tractor 55 units etc. 5. Machinery maintenance center 6. Cattle barn and ensilage for non-grazing season: 181 paddocks 7. Artificial insemination center for animal improvement 8. Feed mixing plant for stable supply of superior grain feed <F/S> 1. Verification reserch and diffusion: research and diffusion center in sub-grassland No. 5 and experimental stock-farm in No.6 2. Grassland establishment: meadow 1,630ha, pasture 242ha 3. Livestock facility and machinery necessary for the items mentioned above 4. Road development: main and branch roads in the study area 47km 5. Drainage improvement : 5.1km of drainage channel in sub-grassland No.6 6. Meet processing plant 7. Rural development: water supply, electrification, education and medical service in the area		(Description) (FY1991 Overseas Survey) A research cooperation (study on production technology of beef cattle and feed) as a mini-project based on the results of this Development Study is under way. 3 long-term experts and 7 short-term experts have been dispatched. Main items of the study are 1) improvement of beef cattle breed and breeding management and 2) improvement of a grassland. The following construction works were completed with finance of the local funds: an experiment center with 30 rooms, 2 breeding farms(200sq.m), 6 breeding farms(1200sq.m), an artificial insemination facility(40sq.m), offices and a dining room(540sq.m.). The Chinese side plans to execute the following projects to widespread among farm houses the satisfactory results obtained by this study. 1) Establishment of a company grouped with beef cattle production firms, 2) Establishment of Technical Service Center, 3) Construction of basic facilities, 4) Establishment of efficient and scientific beef cattle production system The Chinese side reduced cost of investment in basic facilities from 68.39 million yuan suggested by the Development Study to 42.05 million yuan. A half of the investment cost (21.025 million yuan) will be requested to the Japan's Grant Aid. (FY1994 Domestic Survey) No additional information.
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS			
5.TYPE OF STUDY	M/P+F/S	10.STUDY TEAM	Conditions and Development Impacts: [M/P] This master plan aims to be a representative project on livestock development in the north-western territory with regard to the 7th, five-year-plan of China. It is expected to develop and improve grassland establishment, livestock breeding, food processing and marketing, as well as to achieve increase of farmer's income and uplift of living. [F/S] Feasibility Study mainly focuses on the model district for livestock development in about 7,150ha aiming to increase grassland productivity and cattle breeding in consideration of the basic plan. Furthermore this model project shows a good example to other district with its excellent effect so as to extend advisable farming and development theory of the Master Plan. (FY 1993 Domestic Survey)		2.MAJOR REASONS FOR PRESENT STATUS
6.COUNTERPART AGENCY	National Scientific Technology Committee, Ministry of Animal Husbandry of Kansyuku Region	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY			
7.OBJECTIVES OF STUDY	To elaborate a master plan as well as to carry out a feasibility study for the execution of integrated agricultural and livestock development in Lujingxiang region with 81,800ha.	12.EXPENDITURE	Total 155,358 (¥000) Contracted 132,921		
8.DATE OF S/W	Jun.1987	Imp. Period:			.1990-.2000
9.CONSULTANT(S)	Japan Agricultural Land Development Agency	5.TECHNICAL TRANSFER	Co-operative work to make a report		

和名: 甘肃省閩井地区牧畜業開発計画

[M/P+F/S]

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1995

ASO CHN/S 310/88

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 type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled					
2.NAME OF STUDY	Beijing Airport International Terminal Area Development	Beijing Airport	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) Based on the results of the study, the Yen Loan Agreement amounting to 12.3 billion yen has been concluded for the Project with the local currency portion of the fund to be supplied by China Construction Bank in the amount of 1.5 billion yuan. Beijing Capital International Airport Authority invited concept design proposals in December 1992 for construction of Beijing International Airport terminal building from 4 airport design consulting firms including foreign firms. The accepted concept design will be bought out by the Government and the detailed design will be developed from this concept design. A group of Chinese design houses commenced the design development work in the middle of 1993. OECF signed L/A on Beijing Capital Airport Development Project (8,106 million yen) in Aug. 1993. (FY1994 Domestic Survey) After F/S was over, Chinese Government invited proposals worldwide for design services. As a result, Lockheed Air Terminal was awarded a contract. However, due to the unknown reason, the contract was cancelled and Architect Design Institute of Beijing Municipal Office was awarded as a new contract. Chinese Government requested 3rd and 4th OECF Loan Agreements. The Airport construction works have not started yet. (FY1994 Overseas Survey) (Please turn over)					
3.SECTOR	Transportation/Air Transportation & Airport		(US\$1,000)	262,438	118,900	143,538						
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)	1)									
5.TYPE OF STUDY	F/S		2)									
6.COUNTERPART AGENCY	Civil Aviation of China (Air China International after April 1991)		3)									
7.OBJECTIVES OF STUDY	Development Plan for a passenger terminal of Beijing Airport		-Passenger terminal expansion 129,000 sq.m -New cargo terminal 9,000 sq.m -Administration building 9,000 sq.m -Staff housing (family, single use) 65,000 sq.m -Car park extension 41,700 sq.m -Power substation extension 10,000KVA x 2 -Storage tank and accessories (expansion) 2,700 cu.m x 2 -Sewage treatment 3,300 cu.m/day -Dump pit treatment & disposal 30 cu.m/day -Aircraft refuelling tanks 3,500kl x 6 -Apron expansion, loading 19 night stay 6 positions -Utilities (power, boiler 65t/hr x 5, generator 3,000KW x 3, gas, etc.)									
8.DATE OF S/W	Sep.1987	Imp. Period:	Apr.1991-Dec.1994									
9.CONSULTANT(S)	Japan Airport Consultants, Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 24.40 EIRR2) EIRR3)	FIRR1) 9.30 FIRR2) FIRR3)							
10.STUDY TEAM	No.of Members 6 Period Mar.1988-Jan.1989 (11 months)	Conditions and Development Impacts: Development Impacts: The present Beijing Airport is unable to accommodate the growing number of passengers. The project will facilitate the increase of passenger arrivals for tourism and business. Increased airplane operations will contribute to the improvement of balance of payments and the creation of employment.										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td style="text-align: center;">39.50</td> <td style="text-align: center;">24.00</td> <td style="text-align: center;">15.50</td> </tr> </table>	Total M/M	Japan	Field	39.50	24.00	15.50					
Total M/M	Japan	Field										
39.50	24.00	15.50										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey and boring	5.TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS	Priority in project implementation is being discussed at the government.					
12.EXPENDITURE	Total 99,947 (¥000) Contracted 93,153	OJT on the methods of study and planning, especially passenger movement survey and analysis.				3.PRINCIPAL SOURCE OF INFORMATION	①, ②, ③, ④, ⑤					

和名 北京首都空港施設地区拡張計画

(F/S,D/D)

III. PRESENT STATUS OF STUDIED PROJECT

(Description)

Based on the results of the study, the Yen Loan Agreement amounting to 12.3 billion yen has been concluded for the Project with the local currency portion of the fund to be supplied by China Construction Bank in the amount of 1.5 billion yuan.

Beijing Capital International Airport Authority invited concept design proposals in December 1992 for construction of Beijing International Airport terminal building from 4 airport design consulting firms including foreign firms.

The accepted concept design will be bought out by the Government and the detailed design will be developed from this concept design.

A group of Chinese design houses commenced the design development work in the middle of 1993.

OECF signed L/A on Beijing Capital Airport Development Project (8,106 million yen) in Aug. 1993.

(FY1994 Domestic Survey)

After F/S was over, Chinese Government invited proposals worldwide for design services. As a result, Lockheed Air Terminal was awarded a contract.

However, due to the unknown reason, the contract was cancelled and Architect Design Institute of Beijing Municipal Office was awarded as a new contract. Chinese Government requested 3rd and 4th OECF Loan Agreements.

The Airport construction works have not started yet.

(FY1994 Overseas Survey)

The number of passengers at Beijing Airport drastically increased due to rapid economic growth. Since the number was much more than expectation of JICA's F/S, revision of the project plan was needed. In 1993, Lockheed Co. Ltd. (US) won the international bid and got an order of conceptual design of the airport development. The Beijing City Institute of Architectural Design presented a detailed early - stage blueprint based upon the Lockheed's conceptual design. Now the blueprint is under inspection by Civil Aviation of China and the Chinese government. As soon as an admission is given, construction will be started. (Completion of detailed final design and beginning of the construction are scheduled in 1995.)

Estimated total cost of the project is 6.05 billion yuan. L/A of 8,106 billion yen (0.86 billion yuan) loan was concluded with OECF in August 1993. As to other loans, 1 billion yuan was lent from the Aviation Department Fund of Civil Aviation and 2 billion yuan from the People's Development Bank of China. Moreover, financial support of the Chinese government and application to the fourth OECF loan are expected.

Major revisions of JICA's F/S are as follows:

- 1) passenger terminal expansion from 120,000 sq. m to 240,000 sq. m,
- 2) eight plane arrival/departure spaces (fingers) addition so as to the number of them make 33 in total,
- 3) change the shape of the passenger terminal into mountain-shaped,
- 4) rise of estimated total cost from 2.2 billion yuan to 6.05 billion.

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1995

ASO CHN/S 309/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	China	1.SITE OR AREA	Taizi River, 40 km upstream from Benxi City, Liaoning Province		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	Guanyinye Reservoir Project	2.PROJECT COST	Total Cost	Local Cost			Foreign Cost
		(US\$1,000)	1) 376,000	214,000	162,000	(Description) The project was included in the Second Yen Loan (1985-1989) and the Third Yen Loan (1990-1994), and is now under implementation. Aug. 1988 OECF L/A signed (2,846 million yen) for the dam Dec. 1989 Dam construction commenced (Nippon Koei Co. and Dam Engineering Center) Nov. 1990 OECF L/A signed (6,445 million yen) for construction equipment, generators, early flood warning system, etc.) Dec. 1995 Dam construction scheduled to be completed (FY1991 Overseas Survey) No additional information. Contents of OECF Loan 1) Main-dam (Gravity concrete type, Height 82m, Length 1,140m, the total amount of water 2,168 million cu.m) 2) Sub-dam 3) Hydro-power plant (3 units of 6.5MW each) 4) Electric delivery line (4.5km, 66kv) 5) Flood pre-caution system (FY1994 Domestic Survey) Construction of dam body has completed 85% in concrete volume. On September 28, 1994 reservoir impounding was commenced by closing gate of temporary bypass conduit. Construction works including foundation grouting work and powerhouse work are progressing steadily. A ceremony of overall completion of the project is slated for October 1995 as scheduled.	
3.SECTOR	Social Infrastructures/Water Resource Development	3.CONTENTS OF MAJOR PROJECT(S)	1) Reservoir (size 2,785 sq.km, the total amount of water 2,168 million cu.m) 2) Dam (height 82m, length 1,040m, width 10m, volume 1.97 million cu.m) 3) Hydro-power plant (3 units of 6,500kw each) 4) Sub-dam (height 36.2m, length 194m, volume 88,000 cu.m)				
4.REFERENCE NO.		8.DATE OF S/W	Sep. 1986		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes EIRR1) 13.10 FIRR1) 8.80 EIRR2) FIRR2) EIRR3) FIRR3)
5.TYPE OF STUDY	F/S	9.CONULTANT(S)	Nippon Koei Co., Ltd. Dam Engineering Center		Conditions and Development Impacts: [Conditions] - The supply of irrigation water, the flood control, the generation of electricity, and fish farming are calculated as the benefits. Tourism at the Reservoir is not included. - The price of the begin of 1988 is the standard price. - The evaluation period is 50 years.		
6.COUNTERPART AGENCY	Bureau of Water Resources and Electric Power, Liaoning Province	10.STUDY TEAM	No. of Members 16 Period Apr. 1987-Oct. 1988 (18 months)		[Impacts] 1) Industrial water supply (687 million cu.m per year) 2) Irrigation (17,600 ha, annual water intake of 280 million cu.m) 3) Flood control (two cities and rural areas) 4) Power generation (75.52 GWh per year) 5) Fish culture (710 tons per year)		
7.OBJECTIVES OF STUDY	Economic evaluation of Guanyinye Dam and technology transfer of the RCD method	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY			2.MAJOR REASONS FOR PRESENT STATUS The funding for the project is in progress.		
12.EXPENDITURE	Total 276,557 (*000) Contracted 251,622	5. TECHNICAL TRANSFER	1. RCD construction method developed by MOC Japan 2. F/S procedures 3. Japanese hydrological study method		3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ④		

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1995

ASO CHN/A 303/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1. COUNTRY	China	1. SITE OR AREA	Located on the northern Hubei province in the inland China or middle courses of the Yangtze River (The total land area: 1,540 sq.km, population: 1,170)			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	Irrigation Development Project in Northern Hubei	2. PROJECT COST	1)	Total Cost	Local Cost	Foreign Cost	(Description) The Government of China requested a Grant Aid of the Government of Japan for the Shitaisi Area. The Government of Japan approved donation of 13 pumps out of 23 pumps and incidental machines. Public engineering/construction works are done by the Chinese side. 1990.5 - 1990.8 : Basic design study 1991.7.1 : E/N (1,635 million yen) 1993.3.15 : Final completion of the project scheduled (FY1992 Overseas Survey) 1) Shitaisi: a) An alteration of the Intake Plan from 5.5cu.m/sec estimated by the JICA Study to 8.4 cu.m/sec. b) Installation of 3 pumps at the 1st class station is completed. c) Installation of 3 pumps at the 2nd class station is in progress. d) Installation of 3 pumps at the 3rd class, the 4th class and the 4-1 class stations is expected to end in March 1993. e) Construction of the bridge for canals is delayed due to lack of finance. f) Construction of power stations is in progress. g) Construction of all irrigation facilities is scheduled to end in 1995. 2) Yintan: a) The Intake Plan was altered from 60 cu.m/sec estimated by the JICA Study to 87 cu.m/sec due to 20,000ha increase of the proposed irrigation area b) Completion of buildings at the pumping station c) Installation of 8 out of 12 pumps.(cost: 2 bil. yuan) Started operation. d) Rest of construction work is discontinued due to lack of finance. (FY1994 Domestic Survey) The project has completed on Aug, 1994.	
3. SECTOR	Agriculture/General		2)	40,660	23,000	17,660		
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	3)					
5. TYPE OF STUDY	F/S	In Ebeigangdi, Hubei Province where there are frequent typhoons, the P/S of the projects was completed to provide stable irrigated agriculture.						
6. COUNTERPART AGENCY	Committee of Science and Technology							
7. OBJECTIVES OF STUDY	Irrigation Development							
8. DATE OF S/W	Jan.1987	Imp. Period:	1989--1993					
9. CONSULTANT(S)	Taiyo Consultants Co., Ltd. Japan Engineering Consultants Co., Ltd.	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	EIRR1)	7.55	FIRR1)	13.73	
			Yes	EIRR2)	27.94	FIRR2)	47.91	
				EIRR3)		FIRR3)		
10. STUDY TEAM	No. of Members 12 Period Jul.1987-Jun.1988(12 months)	Conditions and Development Impacts: 1. Shitaisi 1) To increase the cropping area rate from 17% to 20% by irrigation. 2) At present a farmer's land holding size is 0.67ha, but the size will gradually increase with the decrease in the number of farmers in the future. 3) The cultivation style will be kept, and profitable and stable crops should be selected. 4) The amount of organic matter applied should increase for soil fertility. 5) To make good use of constructed dams and natural water. 6) To plan the facilities by using the standard draught rate of 1974. 2. Yintan(Qingquangou intake works expansion plan) 1) When the water level of the Tanjiang dam is high, 100cu.m/sec of water can be intaked by gravity through public head races.						
	Total M/M Japan Field 52.52 41.69 10.83	Development Impacts: 1) Creation of employment opportunities. 2) Improving living standards. 3) Contribution to acquire foreign currency with the increase of soy					2. MAJOR REASONS FOR PRESENT STATUS	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER						
12. EXPENDITURE	Total 177,676 (¥'000) Contracted 154,282	(1) Joint works of Japan and China (China organized the survey team similar to the Japanese team) (2) Organizing seminars (3) OJT					3. PRINCIPAL SOURCE OF INFORMATION	
							①, ②, ③, ④	

和名 湖北省北部農業水利開發計畫

[F/S,D/D]

PROJECT SUMMARY (F/S)

ASO CHN/S 311/89

Compiled Mar.1991
Revised Mar.1995

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 Construction Projects of the Three Ports		1.Port of Quihuandao; 2.Port of Lianyungang; and 3.Port of Shijiu					
3.SECTOR Transportation/Port		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		1)	126,485	72,821	53,906	(Description) (FY1992 Overseas Survey) The Phase 2 construction of the three ports(Qinhuandao, Lianyun, and Shijiu) is the subject of this study. Construction of the Phase 1 at all three ports was completed in the past. The study has already been completed by the Chinese side, and the study was incorporated in the 7th Five Year Plan and requested to the OECF's 3rd Yen Credit Loan. Shijiu Port Second Phase Construction Project Oct. 1991 (I) L/A Signed 2,506 million yen Oct. 1992 (II) L/A Signed 3,583 million yen Major Components: 3 berths (15 kilo ton class) 2 berths (10 kilo ton class) Lianyungang Port Xugou Area First Phase Construction Project Oct. 1992 L/A signed 5,900 million yen Major Components: 6 berths Port equipment Qinhuandao Port E and F Berth Construction Project Oct. 1992 (I) L/A signed 3,418 million yen Jan. 1995 (II) 3,041 million yen Aug. 1993 (I) L/A signed 3,944 million yen Major Components:3 coal terminals (30mega ton per year) Jan. 1995 (II) 7,178 million yen 1)Shihjiu Port Extension of the wharf(780m) was completed. Construction of the breakwater was completed in 1990. 5 berths are scheduled to be completed in 1995. 2)Qinhuandao Port The entire plan incorporated in the long-term port development plan was approved in Hebei and the Dept. of Traffic. 3)Lianyung Port Some parts of the plan were altered by the national examination. May 1993 Commencement of construction Jun.1996 Completion scheduled (FY1994 Domestic Survey) No additional information.	
5.TYPE OF STUDY		3) 107,420		61,305	46,112		
6.COUNTERPART AGENCY Ministry of Communications		3.CONTENTS OF MAJOR PROJECT(S) The main project relating port facilities for the year of 1995 are as follows:					
7.OBJECTIVES OF STUDY Execution of the feasibility study on three ports development project		Unit	1)Quihuandao Port	2)Lieyun Port	3)Shijiu Port		
8.DATE OF S/W		Aug.1988	Imp. Period: .1991-.1995 .1991-.1994 .1991-.1995				
9.CONULTANT(S) Overseas Coastal Area Development Institute Yachiyo Engineering Co., Ltd.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 19.60 EIRR2) 13.10 EIRR3) 12.90	FIRR1) 5.10 FIRR2) 3.60 FIRR3) 3.90	
10.STUDY TEAM		Conditions and Development Impacts: [Conditions]		Unit	1)Quihuandao Port	2)Lieyun Port	3)Shijiu Port
No.of Members 21 Period Dec.1988-Feb.1990(15 months)		Project Life years	35	34	35		
Total M/M Japan Field 114.28 60.90 53.38		Est.amt.in 1995 x 10,000ton	889	2,260	245		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Amt.covered by this project	300	220	220		
12.EXPENDITURE		5.TECHNICAL TRANSFER		[Development Impacts] Common to these three ports: -Economic effects such as reduction in transportation cost -Acceleration of regional development etc.			
Total 290,001 (¥'000)		Execution of a small seminar on Coastal area development (at the time of 1st and 4th field study)		3.PRINCIPAL SOURCE OF INFORMATION			
Contracted 280,829				①, ③, ④			

PROJECT SUMMARY (F/S)

Compiled Mar.1991
Revised Mar.1995

ASO CHN/S 312/89

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 Construction Project of Wuhan / Tanhe Civil Airport		Wuhan City(Population 6.244 million, Area 8392 sq.km)					
3.SECTOR Transportation/Air Transportaion & Airport		2.PROJECT COST (US\$1,000)		Total Cost 142,120	Local Cost 94,200	Foreign Cost 47,920	
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)				(Description) The OECF Loan Agreement(L/A), amounting to 6,279 million yen was signed in March 1991, and the local fund has been allocated by China Construction Bank to the amount of 665 million yuan. With the ratification of the L/A by the Government, the construction work commenced on 16 December 1990. Design services were provided by 8 design groups including the Civil Aviation Authority of China and the mid-south China Building Design Institute. Construction work has been supervised by Wuhan Airport Construction Supervision Department. The project will be completed by the end of 1993. (FY1992 Overseas Survey) Waiting for the answer. (FY1994 Domestic Survey) All the airport facilities were completed in 1993, with the flight check of nav aids calibration. Airport 6-lane highway(one way:3-line) running between the airport and city center is near to its completion as of 3 November 1994. However, there has been difference in opinion between Uhan's People's Local Government and CAAC regional administration office. The airport has not been made operational yet to date. (FY1994 Overseas Survey) (Please turn over)	
5.TYPE OF STUDY		Construction of the following airport facilities and other related facilities: Runway(3,000m), Taxiway, Apron(19 Spots), Passenger Terminal Build(Total Floor Area 27,300 sq.m), Cargo Terminal Build, Maintenance Facility, G.S.E. Facility, Roads and Car park, Drainage Facility, Radio-Nav.Aids, Airfield Lighting System, Air Traffic Control Facility, Communication Facility, Meteorological Facility, Electric Power Supply Facility, Water Supply Facility, Electric Facility, Exclusive Railway, Sewerage Disposal Facility, Fuel Supply Facility, Airconditioning Facility, Rescue and Fire-Fighting Facility, Access Road, etc.					
6.COUNTERPART AGENCY		Civil Aviation Administration of China(People's Government of Wukan city)					
7.OBJECTIVES OF STUDY		Construction of New Airport					
8.DATE OF S/W		Aug.1988					
9.CONULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 12.10 EIRR2) EIRR3)	FIRR1) 7.80 FIRR2) FIRR3)	
10.STUDY TEAM		Conditions and Development Impacts: [Conditions] - The project life is 20 years beginning from 1990. - The average interest rate should be below 7%. - The Project is economically feasible since the economic internal rate of return is over the social discount rate of China. - Since the operational institution of this project has already been established, the project is feasible from a view of management. [Impacts] 1)To save the time of Chinese passengers; 2)Increase of income of tourism; 3)To save the direct cost of transport for the Chinese air companies; 4)To save the cost of noise compensation as social cost. 5)Increase of comfortableness and convenience; 6)Increase of job opportunities.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE		Methodology for airport planning. Method of Passenger Survey by questionnaire. Training in Japan.				3.PRINCIPAL SOURCE OF INFORMATION	
Total Contracted		174,384 (¥'000)				①, ②, ③, ④	

和名 武漢天河空港建設計画

(F/S,D/D)

III. PRESENT STATUS OF STUDIED PROJECT

(Description)

The OECF Loan Agreement(L/A) amounting to 6,279 million yen was signed in March 1991, and the local fund has been allocated by China Construction Bank to the amount of 665 million yuan.

With the ratification of the L/A by the Government, the construction work commenced on 16 December 1990. Design services were provided by 8 design groups including the Civil Aviation Authority of China and the mid-south China Building Design Institute.

Construction work has been supervised by Wuhan Airport Construction Supervision Department.

The project will be completed by the end of 1993.

(FY1992 Overseas Survey)

Waiting for the answer.

(FY1994 Domestic Survey)

All the airport facilities were completed in 1993, with the flight check of navads calibration. Airport 6-lane highway(one way-3-line) running between the airport and city center is near to its completion as of 3 November 1994.

However, there has been difference in opinion between Uhan's People's Local Government and CAAC regional administration office. The airport has not been made operational yet to date.

(FY1994 Overseas Survey)

(1991-1992)

After F/S completed, detailed design was presented by 8 Chinese consultants (Civil Aviation Administration of China and South China Institute of Architectural Design as central members), based upon the F/S. The first architecture section of Wuhan City started construction in 1992. One of the most critical differences between the F/S and the detailed design was runway extension from 3,000m to 3,400m. The reason of the change was to cope with arrival/departure of B747-400 (international flight) which was bigger than B747-200 expected. (the end of December 1994)

Constructin of airport facilities was completed, and test flights were conducted. Inspection of the facilities was finished and the airport would be opened within 2-3 months. The authority of airport operations were being transferred to an operational management corporation. Roads to the airport and employees residential facilities were under construction.

Total cost of the construction is 655 million yuan. Funding details are as follows:

OECF(the third loan)	5 billion yen(200 million yuan)
Chinese government	100 million yuan,
Wuhan Cith Office	90 million yuan.

The rest (265 illion yuan) will be financed by Wuhan City Office, with a condition that the development right of South Wuhan Airport will be given to the city authority.