

PROJECT SUMMARY (F/S)

Compiled Mar.1990

Revised Mar.1996

ASO BGD/S 303/87

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 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	Water Drainage System Improvement Project in Dhaka City	Dhaka City					
3.SECTOR	Social Infrastructu/River & Erosion Control	2.PROJECT COST		Total Cost	Local Cost	(Description) The updating study of this study was conducted after the record maximum floods of 1988 floods (70 year frequency). A portion of the urgent project which was proposed by the updating study is being implemented by the JICA grant aid from fiscal year 1990 to 1992 (one pump station and drainage channel improvement of 4.1 km). Mar.1990 Grant Aid E/N Signed (Water Drainage System Improvement Project in Dhaka City 6.6mil. Yen) Aug.1991 Grant Aid E/N Signed (Water Drainage System Improvement Project in Dhaka City 1,158mil.Yen) May.1992 Grant Aid E/N Signed (Water Drainage System Improvement Project in Dhaka City 2,093mil Yen) Feb.1993 Completion, handed over to the Gov't of Bangladesh (FY1991 Overseas Survey) National wide flood policy study was conducted by the international organization and each donors. The east part of Dhaka City was assigned to Japan, and the western part was assigned to ADB. The project of the eastern part is called FAP8A and is sheduled to be completed by May 1992. The project of the western part is called FAP8B. The L/A was signed for the rehabilitation of dike, improvement of drainage channel in the city, and construction of pumping station. (FY1992 Overseas Survey) Waiting for the answer. (FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) This project was taken over by the DWASA, which carried out an updating study of this project.	
4.REFERENCE NO.				67,000	34,000		
5.TYPE OF STUDY	F/S			Foreign Cost	33,000		
6.COUNTERPART AGENCY	Dhaka Water Supply and Sewerage Authority (DWASA)	3.CONTENTS OF MAJOR PROJECT(S)					
7.OBJECTIVES OF STUDY	Flood control and storm water drainage improvement of Dhaka city						
8.DATE OF SAV	1986/6	Imp. Period: 1989.4-1993.3					
9.CONULTANT(S)	Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 17.10 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10.STUDY TEAM	No.of Members 11 Period Nov.1986-Nov.1987(13 months)	Conditions and Development Impacts: [Conditions] - Future runoff was estimated based on land use forecast in 2005. - Flood area and flood damage cost was estimated based on existing data as well as direct interview survey with residents. - Flood water level of the rivers with a 30 year frequency is employed for the design of dike and gates, 2-days consecutive rainfall with a 5-year frequency is employed for the design of pump station, khal improvements and drainage pipes. [Development Impact] The project area, protected from external floods by construction of dike, will be protected from internal flood by construction of pump station and drainage pipes and khal rehabilitaions.				2.MAJOR REASONS FOR PRESENT STATUS Implementation of this project became very urgent after the major floods in 1988.	
	Total M/M Japan Field 50.48 20.26 30.22						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Installation of water level meters and rain gages	5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION ①, ②, ③	
12.EXPENDITURE	Total 170,915 (¥000) Contracted 153,257	1) Hold a Seminar on flood protection planning(2 days) 2) Use of local consultants for field survey (3 months) 3) Guidance of O/M of rain gauge and water level gauge					

和名 ダッカ市雨水排水施設整備計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

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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: 72,270ha 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 checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled			
2.NAME OF STUDY	North Rajshahi Irrigation Project	2.PROJECT COST (US\$1,000)		Total Cost	Local Cost			Foreign Cost		
3.SECTOR	Agriculture/(Agriculture in)General			1) 151,000	79,800	71,200				
4.REFERENCE NO.		3.CONTENT(S) OF MAJOR PROJECT(S)				(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. (FY1995 Overseas Survey) This project is planned based on the river water of Ganges as the water resource. However, after expiry of the memorandum of understanding with India in 1988, it became hard to get enough amount of water. At present, the negotiation with India is carrying out to this water supplement issue. The drainage systems are investigating under FAP(Flood Action Plan) and recommended to implement as for a medium-term project.				
5.TYPE OF STUDY	F/S	Intake Capacity (m ³ /sec)	Diameter (mm)	Type of Pump Unit	Motor Capacity Output (Kw/Unit)			Main Canal (Km)	Branch Canal (Km)	
6.COUNTERPART AGENCY	Bangladesh Water Development Board (BWDB)	Barindo district Vertical	44.24	4	6.65			2,390	49	445
7.OBJECTIVES OF STUDY	Feasibility study on the improvement of invigation and drainage systems including agricultural plan	Mixed	1,350	4	4.00			1,460		
8.DATE OF S/W	1987/2	Paba district Vertical	9.44	1	4.12			720	14	82
9.CONULTANT(S)	Sanyu Consultants Inc. Taiyo Consultants Co., Ltd.	Mixed	1,000	2	2.07	370				
10.STUDY TEAM	No. of Members 12 Period Jul.1987-Jun.1988(11 months)	Imp. Period: 1987.7-1988.6		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes		EIRR1) 18.40 EIRR2) EIRR3)	FIRR1) 13.60 FIRR2) FIRR3)	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Core Boring, Survey of Trunk Roads, Levelling Survey at the end.	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, 1.7ha) income from 21,000 Taka/year of without-project case to 58,000 Taka/year of with-project case, which is about 2.76 times.		2.MAJOR REASONS FOR PRESENT STATUS		Supply of electricity to the large-scale pump facilities in the project was a main barrier to the realization of the project.		3.PRINCIPAL SOURCE OF INFORMATION		
12.EXPENDITURE	Total 222,324 (¥000) Contracted 211,428	5. TECHNICAL TRANSFER		The technical transfer was given in the joint field survey with counterpart staffs and two of them were invited to the seminar in Japan.		①, ②, ③				

PROJECT SUMMARY (M/P)

Compiled Mar.1991
Revised Mar.1996

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																																																								
2. NAME OF STUDY	Model Rural Development Project for Homna and Dandkandi Upazila Comilla District	2. PROJECT COST	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">Total Cost</td> <td style="text-align: center;">Local Cost</td> <td style="text-align: center;">Foreign Cost</td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td style="text-align: center;">121,000</td> <td></td> <td></td> </tr> </table>		(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost		2)	121,000			<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued																																														
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3. SECTOR	Agriculture/(Agriculture in)General	3. CONTENTS OF MAJOR PROJECT(S)	<p>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.</p> <table style="width: 100%; border: none;"> <tr> <td colspan="4">(1) UCCA related works</td> </tr> <tr> <td style="padding-left: 20px;">- UCCA building</td> <td style="text-align: right;">2 nos</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">- Agriculture Modernization Center</td> <td style="text-align: right;">2 nos</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">- Inland Fish Center</td> <td style="text-align: right;">2 nos</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">- Godown cum Community Center</td> <td style="text-align: right;">143 nos</td> <td></td> <td></td> </tr> <tr> <td colspan="4">(2) Infrastructure development</td> </tr> <tr> <td style="padding-left: 20px;">- Re-excavation of irrigation canal</td> <td style="text-align: right;">143 km</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">- Low lift pump</td> <td style="text-align: right;">341 nos</td> <td style="padding-left: 20px;">- Floating pump</td> <td style="text-align: right;">5 nos</td> </tr> <tr> <td style="padding-left: 20px;">- Feeder road A</td> <td style="text-align: right;">18 km</td> <td style="padding-left: 20px;">- Feeder road B</td> <td style="text-align: right;">140 km</td> </tr> <tr> <td style="padding-left: 20px;">- Rural road</td> <td style="text-align: right;">83 km</td> <td style="padding-left: 20px;">- Bridge</td> <td style="text-align: right;">144 nos</td> </tr> <tr> <td style="padding-left: 20px;">- Growth center</td> <td style="text-align: right;">8 nos</td> <td style="padding-left: 20px;">- Hat market</td> <td style="text-align: right;">34 nos</td> </tr> <tr> <td style="padding-left: 20px;">- Fish pond improvement</td> <td style="text-align: right;">4500 nos</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">- School improvement</td> <td style="text-align: right;">31 nos</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">- Drinking water supply</td> <td style="text-align: right;">676 nos</td> <td></td> <td></td> </tr> </table> <p>The Project will be implemented in three stages. The total cost is estimated at 6,253 million Taka, of which 1,630 million Taka is</p>		(1) UCCA related works				- UCCA building	2 nos			- Agriculture Modernization Center	2 nos			- Inland Fish Center	2 nos			- Godown cum Community Center	143 nos			(2) Infrastructure development				- Re-excavation of irrigation canal	143 km			- Low lift pump	341 nos	- Floating pump	5 nos	- Feeder road A	18 km	- Feeder road B	140 km	- Rural road	83 km	- Bridge	144 nos	- Growth center	8 nos	- Hat market	34 nos	- Fish pond improvement	4500 nos			- School improvement	31 nos			- Drinking water supply	676 nos			<p>(Description)</p> <p>The project was implemented as a grant aid. (by Taiyo Consultants Co., Ltd.)</p> <p>(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/N (Phase I) of the grant aid was signed in Feb. 1992.</p> <p>(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.</p> <p>(FY1994 Domestic Survey) The Phase I has been completed.</p> <p>(FY1995 Domestic Survey) No additional information.</p> <p>(FY1995 Overseas Survey) 1. A part of the project component was constructed by the Japanese grant in March, 1995. 2. RBDB and TCCA conduct training courses of agricultural production and upgrading life for people in the villages. JOCV volunteers are involved in these training. The project was very effective specially in improving the living standard of rural inhabitants. About 70% of them are benefitted.</p>
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4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	<p>[Condition] The economic internal rate of return of the Project is estimated at 20%.</p> <p>[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.</p>																																																										
5. TYPE OF STUDY	M/P	7. OBJECTIVES OF STUDY			<p>2. MAJOR REASONS FOR PRESENT STATUS</p> <p>This is integrated into the forth Five-Year Plan.</p>																																																								
6. COUNTERPART AGENCY	IGEB BRDB	8. DATE OF SAV	<p>3. PRINCIPAL SOURCE OF INFORMATION</p> <p>①, ② MRDP, BRDP, ③</p>																																																										
7. OBJECTIVES OF STUDY	To formulate a master plan on the model rural development for Comilla District	9. CONSULTANT(S)			<p>5. TECHNICAL TRANSFER</p> <p>Technology transfer to counterparts in the course of the study.</p>																																																								
8. DATE OF SAV	1988/2	10. STUDY TEAM	<p>11. ASSOCIATED AND/OR SUBCONTRACTED STUDY</p> <p>Topographic Survey, Geological Survey, Survey of the Rural Economy</p>																																																										
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Taiyo Consultants Co., Ltd.	12. EXPENDITURE			<p>12. EXPENDITURE</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Total</td> <td style="text-align: right;">143,620 (¥000)</td> </tr> <tr> <td style="padding-left: 20px;">Contracted</td> <td style="text-align: right;">136,092</td> </tr> </table>		Total	143,620 (¥000)	Contracted	136,092																																																			
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10. STUDY TEAM	No. of Members 10 Period Oct.1988-Sep.1989 (12 months)	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>12. EXPENDITURE</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Total</td> <td style="text-align: right;">143,620 (¥000)</td> </tr> <tr> <td style="padding-left: 20px;">Contracted</td> <td style="text-align: right;">136,092</td> </tr> </table>		Total	143,620 (¥000)	Contracted	136,092																																																					
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ASO BGD/S 306/89

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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 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	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 Infrastructu/River & Erosion Control	2.PROJECT COST		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%;"></td> <td style="width: 15%;">Total Cost</td> <td style="width: 15%;">Local Cost</td> <td style="width: 15%;">Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td>1)</td> <td>41,500</td> <td>20,100</td> <td>21,400</td> </tr> <tr> <td>US\$1=32.24K=141Yen</td> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)	41,500	20,100	21,400	US\$1=32.24K=141Yen	2)					3)											
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4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)				(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 grant 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. (FY1995 Overseas Survey) ADS completed F/S of FAF88 including an embankment portion under RWDB's responsibility in May 1992, followed by the construction with its loan amounting to \$91.5M. It will be completed in 1996-97. JICA's technical transfer was effective, and a pumping station, completed by the Japanese Grant Aid, has been smoothly operated since 1993 with sufficient stock of spareparts.																											
5.TYPE OF STUDY	F/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; margin-top: 10px;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%;">Facility</td> <td style="width: 20%;">Phase I Program</td> <td style="width: 20%;">Urgent Project</td> </tr> <tr> <td>1)</td> <td>Pump Station</td> <td>1 Place 10 m3/s</td> <td>1 Place 10 m3/s</td> </tr> <tr> <td>2)</td> <td>Gate</td> <td>1 Place</td> <td>1 Place</td> </tr> <tr> <td>3)</td> <td>Khal Improvement</td> <td>7,200m</td> <td>7,200m</td> </tr> <tr> <td>4)</td> <td>Brick Revetment</td> <td>1,000m</td> <td>1,000m</td> </tr> <tr> <td>5)</td> <td>Box Culvert</td> <td>5,800m</td> <td>2,200m</td> </tr> <tr> <td>6)</td> <td>Bridges</td> <td>5 Place</td> <td>5 Place</td> </tr> </table> A part fo Urgent Project was implimented in Feb. 1993 by the Japanese Grant Aid Program.							Facility	Phase I Program	Urgent Project	1)	Pump Station	1 Place 10 m3/s	1 Place 10 m3/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
	Facility	Phase I Program	Urgent Project																														
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6.COUNTERPART AGENCY	Dhaka Water Supply and Sewerage Authority(DWASA)	4.FEASIBILITY AND ITS ASSUMPTIONS				2.MAJOR REASONS FOR PRESENT STATUS Implementation of this project became very urgent after the major flood in 1988.																											
7.OBJECTIVES OF STUDY	-To update th JICA's previous study(1987) -To propose the urgent program	Imp. Period: 1990.11-1993.3 <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Feasibility:</td> <td style="width: 10%;">EIRR1)</td> <td style="width: 15%;">9.30</td> <td style="width: 15%;">FIRR1)</td> </tr> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </table> 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						Feasibility:	EIRR1)	9.30	FIRR1)	Yes	EIRR2)		FIRR2)		EIRR3)		FIRR3)														
Feasibility:	EIRR1)	9.30	FIRR1)																														
Yes	EIRR2)		FIRR2)																														
	EIRR3)		FIRR3)																														
8.DATE OF SAW	1989/7	5. TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION ①, ② DWASA, ③																											
9.CONSULTANT(S)	Pacific Consultants International	Technical transfer was conducted during the site study.																															
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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.1991
Revised Mar.1996

ASO BGD/S 304/89

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 checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled				
2. NAME OF STUDY Development of Chittagong Airport		Chittagong Airport									
3. SECTOR Transportation/Air Transportaion & Airport		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost					
4. REFERENCE NO.		1)	52,598	11,748	40,850	(Description) July, 1991 OECF Appraisal Mission Sep. 1993 OECF L/A signed (333 million yen) Development Project of Cittaogong Airport (E/S) (FY1991 Overseas Survey) The investment interest of Japanese enterprises in the export processing zone becomes bigger. The needs to construct the international airport there is high. (FY1992 Overseas Survey) Waiting for the answer. (FY1993 Overseas Survey) In order to realize the implementation of the Project during May,1994 to June,1995, selecting the appropriate consultant. As for the second international airport of the country, an alternate airport of Zia international airport and as a disaster relief center, the plan seems to be very appropriate, JICA's further cooperation including feasibility study, detailed design and preparation of the tender documents are requested. (FY1994 Domestic Survey) The contract agreement of Engineering Services (E/S) financed by OECF was signed by CAAB and the consultant. The engineering services are under way to complete by July,1995. Beside the progress of the Engineering Services, OECF Loan will be arranged for the construction works. After completing on the Engineering Services (Retailled design, preparation of tender document), bidding and construction works are expected to be proceeded promptly. (FY1995 Domestic Survey) No additional information.					
5. TYPE OF STUDY		2)	US\$1=1,000	US\$1=Taka 32.2	3)						
6. COUNTERPART AGENCY Ministry of Civil Aviation and Tourism Civil Aviation Authority of Bangladesh		3. CONTENTS OF MAJOR PROJECT(S)				(FY1994 Domestic Survey) The contract agreement of Engineering Services (E/S) financed by OECF was signed by CAAB and the consultant. The engineering services are under way to complete by July,1995. Beside the progress of the Engineering Services, OECF Loan will be arranged for the construction works. After completing on the Engineering Services (Retailled design, preparation of tender document), bidding and construction works are expected to be proceeded promptly. (FY1995 Domestic Survey) No additional information.					
7. OBJECTIVES OF STUDY Preparation of a feasibility study on the improvement of existing Chittagong Airport		-Overlay of runway and rearrangement of runway strip in compliance of ICAO standards -Construction of new terminal area (parking apron (B747:1, DC10:1, B737:2), taxiway, passenger terminal building (5,400 sq.m), cargo building (2,000 sq.m), control tower, car park (280 cars), access road and public utilities) -Installation of air navigation facilities (lighting, radio, communications and meteorological facilities) -Storm Water Drainage									
8. DATE OF S/W		1988/8	Imp. Period: 1990. -1994.		4. FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes EIRR1) 15.00 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)						
9. CONSULTANT(S) Pacific Consultants International		Conditions and Development Impacts: -Contribution to calamity preparedness as a major relief base -Improvement of user convenience and activation of regional economy by solving the capacity problem of air transportation -Enhancement of foreign investment by improved access to export processing zone -Increase in employment opportunities -Stimulation of international tourism development -Assurance of air transport safety -Reliability of air transport can be assured because Chittagong Airport would serve as an alternate airport of Zia International Airport									
10. STUDY TEAM		No. of Members 7		5. TECHNICAL TRANSFER 1) Planning and design of airport facilities; 2) Evaluation method of aircraft noise on surrounding area; 3) Economic and financial assessment of airport project		2. MAJOR REASONS FOR PRESENT STATUS					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Topographic Survey/Soil investigation		Period Nov.1988-Sep.1989(11 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Total M/M</td> <td style="width: 30%;">Japan</td> <td style="width: 30%;">Field</td> </tr> <tr> <td style="text-align: center;">33.56</td> <td style="text-align: center;">18.34</td> <td style="text-align: center;">15.22</td> </tr> </table>				Total M/M	Japan	Field	33.56	18.34	15.22
Total M/M	Japan	Field									
33.56	18.34	15.22									
12. EXPENDITURE		Total 113,684 (Y'000)		3. PRINCIPAL SOURCE OF INFORMATION		①, ② Civil Aviation Authority					
		Contracted 103,590									

PROJECT SUMMARY (F/S)

Compiled Mar.1991

Revised Mar.1996

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)						
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	1988/8	(1) Slipway for small ship repair 18.30m X 145.00m						
9.CONSULTANT(S)	Joint Venture/ Overseas Ships Building Cooperation Center Mitsui Engineering & Shipbuilding Co., Ltd.	(2) Galvanizing Shop and Machinery and Equipment						
10.STUDY TEAM	No.of Members 8 Period Mar.1989-Feb.1990(11 months)	(3) Plan of service capacity 1989/90 21 ships per year 2002/03 39 ships per year 2012/13 49 ships per year						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Study of the Repair Shipyard in Singapore(Result of Repair and Technical Assistant)	(4) Biggest size of ship is 16,500 DWT cargo vessel.						
12.EXPENDITURE	Total 142,288 (¥000) Contracted 133,898	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 27.00 EIRR2) EIRR3)			
		Conditions and Development Impacts: Development Impacts: 1.expected FIRR 12.4% expected EIRR 27.0%				(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. (FY1995 Domestic Survey) No additional information.		
		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.						
		5.TECHNICAL TRANSFER						
		Technical training for the counterparts was carried out by JICA's expense during this study						
				2.MAJOR REASONS FOR PRESENT STATUS				
				Because of internal problems within Bangladesh				
				3.PRINCIPAL SOURCE OF INFORMATION				
				①, ② BSEC				

PROJECT SUMMARY (F/S)

Compiled Mar.1992
Revised Mar.1996

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				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		The study area is located in 4 Upazilas ; Kurigram, Bhurungamari, Fulbari and Nageswari in the Kurigram District, adjoining of the West Bengal of					
Kurigram Irrigation and Flood Control Project - North Unit		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)	1)	98,826	45,655	53,171	
		US\$=148.5yen		2)			
				3)			
3. SECTOR		3. CONTENTS OF MAJOR PROJECT(S)				(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. (FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) As the result of the fact-finding survey done by OECF in 1990, it was found that there was no idea to supply electric power for the pump stations. Therefore, the implementation of this project had been once suspended. However, since this project covers the area used to suffer the flood disasters in every year, the construction of the drainage facilities, 22km of embankment and about 3km of power distribution line to the pump stations are planned and promoting with a high priority. Financial cooperation is being requested to the Government of Japan.	
Agriculture/(Agriculture in)General		To measure plans for irrigation, river flood embankment, drainage facilities improvement and agricultural supporting systems.					
4. REFERENCE NO.		Communal area = 32,800ha Pump station for irrigation A=29,500ha, Q=42.8bu.m/sec. Reversible pump station for irrigation / drainage A=3,300ha, Q=4.9cub.m/sec.					
5. TYPE OF STUDY		Improvement of embankment and regulators Canals and relationship structures					
6. COUNTERPART AGENCY							
Bangladesh Water Development Board (BWDB)							
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							
8. DATE OF S/W		Imp. Period: 1989.7-1990.10					
1989/2							
9. CONSULTANT(S)		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility:	EIRR1) 19.70	FIRR1) 9.60	
Taiyo Consultants Co., Ltd. Sanyu Consultants Inc.				Yes	EIRR2)	FIRR2)	
				EIRR3)	FIRR3)		
10. STUDY TEAM		Conditions and Development Impacts: 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.					
No. of Members 10		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.					
Period Jul.1989-Oct.1990 (16 months)							
Total M/M		Japan		Field			
62.97		25.43		37.54			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER					
Topographic and canal survey Soil mechanics and boring survey Soil analysis Questionnaire survey		2 persons under BWDB received for technical training in Japan					
12. EXPENDITURE		3. PRINCIPAL SOURCE OF INFORMATION					
Total 211,998 (¥'000)		①、②、③、⑥ BWDB					
Contracted 203,192							

PROJECT SUMMARY (F/S)

Compiled Mar. 1992
Revised Mar. 1996

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				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		Pangaon site on the south bank of the Buriganga River in Dhaka Port					
3. SECTOR Transportation/Port		2. PROJECT COST (US\$1,000)		Total Cost	Local Cost	Foreign Cost	
4. REFERENCE NO.				1) 46,381	16,970	29,411	
5. TYPE OF STUDY F/S				2)			
6. COUNTERPART AGENCY Bangladesh Inland-waterway Transport Authority (BIWTA)				3)			
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.		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. CFS : 1 shed 6. Terminal office 7. Access road : 3.6km				(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) (FY1995 Domestic Survey) No additional information.	
8. DATE OF SAV 1989/7		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)		
10. STUDY TEAM No. of Members 9 Period Nov. 1989-Mar. 1991 (16 months)		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					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 1) O/D investigation; 2) soil materials survey; 3) topographic survey and river-bed sounding		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.				2. MAJOR REASONS FOR PRESENT STATUS	
12. EXPENDITURE Total 230,015 (¥'000) Contracted 223,231						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 (M/P)

Compiled Mar.1993
Revised Mar.1996

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		Kachua, Nabinagar, Bancharampur and Defidwar Upazilas, Old Comilla District 2.PROJECT COST <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">309,469</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">2)</td> <td style="text-align: center;">104,980</td> <td style="text-align: center;">10,771</td> <td style="text-align: center;">30,446</td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)	309,469			(US\$1,000)	2)	104,980	10,771	30,446	I.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
		Total Cost	Local Cost			Foreign Cost																
(US\$1,000)	1)	309,469																				
(US\$1,000)	2)	104,980	10,771	30,446																		
2.NAME OF STUDY The Model Rural Development Project Phase II for Kachua, Nabinagar, Bancharampur and Debidwar Upazilas		3.CONTENT(S) OF MAJOR PROJECT(S)		(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. (FY1995 Overseas Survey) 1. GOB is preparing the request for Grant Aid to the Government of Japan. 2. The project design was reviewed to be downsized to meet the proper scale of the Japanese Grant Aid.																		
3.SECTOR Agriculture/(Agriculture in)General		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.																				
4.REFERENCE NO.		Priority Project (1) Irrigation Development 34km ; (2) Fractional Pump 200nos. (3) Road Improve. 14.1km ; (4) UCCA 4nos. (5) Growth Center 4nos.																				
5.TYPE OF STUDY M/P		4.CONDITIONS AND DEVELOPMENT IMPACTS																				
6.COUNTERPART AGENCY Bangladesh Rural Development Board (BRDB) Local Government Engineering Bureau (LGEB)		[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.																				
7.OBJECTIVES OF STUDY To formulate with long-term development strategies, the Master Plan of Model Rural Development Project Phase II (MRDP II) and to formulate the priority projects to be selected among the MRDP II.																						
8.DATE OF S/W 1989/12																						
9.CONSULTANT(S) Nippon Koei Co., Ltd. Taiyo Consultants Co., Ltd.																						
10.STUDY TEAM No.of Members 11 Period Sep.1990-Aug.1991(12 months)																						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Topographic Survey, Tests of Soil, Geology and the Quality of Water, Interview and Questionnaire Survey																						
12.EXPENDITURE Total 301,296 (Y'000) Contracted 185,028		5.TECHNICAL TRANSFER OJT																				
		3.PRINCIPAL SOURCE OF INFORMATION ①, ② BRDB, ③																				
		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".																				

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1994

Revised Mar.1996

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				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 Greater Dhaka Protection Project (FAP8A)		Greater Dhaka East of Greater Dhaka Area, DND and West part of Narayanganji Area (A=194.04km ²)																																																			
3. SECTOR		2. PROJECT COST (US\$1,000)		Local Cost		(Description) Project realization is not confirmed. (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). (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. (FY1995 Domestic Survey) Planned Donor meeting on Dec. 1994 had been cancelled. However, it will be held on around Sep. 1995 in Dhaka. (FY1995 Domestic Survey) It may take some time to decide priority among six(6) blocks of the project, because the construction cost will be as large as \$740M. There is another alternative to consider the east embankment as a part of the N-S Trans Bangladesh Trunk Highway (Chittagon - Dhaka - N.W.) which passes the Jamna Bridge under construction.																																															
Social Infrastructure/River & Erosion Control		M/P 1) 1,700,225		597,267																																																	
4. REFERENCE NO.		2) 749,667		376,722																																																	
5. TYPE OF STUDY		F/S 1) 1,700,225		1,102,958		2) 749,667 372,945 3)																																															
6. COUNTERPART AGENCY		2) 749,667		372,945																																																	
Ministry of Irrigation, Water Development and Flood Control. Flood Plan Coordination Organization.		2) 749,667		372,945																																																	
7. OBJECTIVES OF STUDY		3. CONTENTS OF MAJOR PROJECT(S)				(FY1995 Domestic Survey) Planned Donor meeting on Dec. 1994 had been cancelled. However, it will be held on around Sep. 1995 in Dhaka.																																															
1. To formulate a M/P on a Comprehensive flood control and stormwater drainage for Dhaka Metropolitan Area.		*(R) is Rehabilitation <N/P> (1991-2010): Total Project Cost TK 61,208 Mil. 1) Structural Measures 1 Embankment (R) / 16.7km 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>																																																			
2. To conduct a feasibility study on a flood control and stormwater drainage for the priority area identified in the M/P.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">Greater Dhaka Area</td> <td style="text-align: center;">DND of Narayanganji</td> <td style="text-align: center;">Narayanganji West</td> </tr> <tr> <td>Embankment</td> <td style="text-align: center;">27.52km</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">11.89km</td> </tr> <tr> <td>Sub-Embankment</td> <td style="text-align: center;">17.42km</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> </tr> <tr> <td>Road-Cum-Embankment</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">4.10km</td> </tr> <tr> <td>Flood Wall</td> <td style="text-align: center;">21.27km</td> <td style="text-align: center;">3.38km</td> <td style="text-align: center;">11.48km</td> </tr> <tr> <td>Flood Wall (R)</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">25.20km</td> <td style="text-align: center;">-----</td> </tr> <tr> <td>Sluice Gate</td> <td style="text-align: center;">7 pls</td> <td style="text-align: center;">1 pls</td> <td style="text-align: center;">14 pls</td> </tr> <tr> <td>Pump Station</td> <td style="text-align: center;">180.5m³/s(4)</td> <td style="text-align: center;">64.7m³/s(2)</td> <td style="text-align: center;">12.2m³/s()</td> </tr> <tr> <td>Stop Log</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">58 pls</td> <td style="text-align: center;">17 pls</td> </tr> <tr> <td>Retarding Basin</td> <td style="text-align: center;">18.95x1,000,000m³</td> <td style="text-align: center;">6.81x1,000,000m³</td> <td style="text-align: center;">1.28x1,000,000m³</td> </tr> <tr> <td>Khal Improvement</td> <td style="text-align: center;">73.2km</td> <td style="text-align: center;">51.2km</td> <td style="text-align: center;">17.2km</td> </tr> <tr> <td>Bridge</td> <td style="text-align: center;">13 No.</td> <td style="text-align: center;">40 No.</td> <td style="text-align: center;">14 No.</td> </tr> </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()	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.
	Greater Dhaka Area	DND of Narayanganji	Narayanganji West																																																		
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Bridge	13 No.	40 No.	14 No.																																																		
8. DATE OF S/W		1990/6		Imp. Period: 1992. -2010. 1996. -2009. 1999. -2004.		2. MAJOR REASONS FOR PRESENT STATUS Delayed due to the coordination problems among Governmental Organizations concerned (DMDP). Necessary to find the donor country for financing.																																															
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)																																																	
10. STUDY TEAM		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.				3. PRINCIPAL SOURCE OF INFORMATION ① Ministry of Irrigation, ③																																															
No. of Members 14 Period Sep.1990-Mar.1991 (7 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																																												
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11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER																																																			
Land use, Flood drainage, Topographic and Environment Survey. Soil investigation, Preparation of Topographic map.		Technical transfer was carried out through the occasion of explanation and discussion on the reports. And also technical transfer was made for 1) Designing of Culvert 2) Operation & Maintenance of the Pump Station.																																																			
12. EXPENDITURE																																																					
Total 480,809 (¥000)																																																					
Contracted																																																					

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1994
Revised Mar.1996

ASO BGD/S 203B/92

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) 2.PROJECT COST (US\$1,000) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">M/P 1)</td> <td style="width: 10%;">Local Cost</td> <td style="width: 10%;">Foreign Cost</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>F/S 1)</td> <td>865,000</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>2)</td> <td>42,932</td> <td>11,249</td> <td></td> <td>31,683</td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			M/P 1)	Local Cost	Foreign Cost				2)						F/S 1)	865,000					2)	42,932	11,249		31,683		3)					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	(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. (FY1995 Domestic Survey) FPCO have took up 'Gaibandha Improvement Project' as for the prior project. However, since the arrangement among the whole of FAP is not completed as yet, it seems to take rather long period until the commencement of the implementation. (FY1995 Overseas Survey) FAP1(Bramaputra Training) has started its construction by IDA. ADF has just approved a technical assistance amounting to more than 81 million for assessing economic, social and environmental impact to the N-W region by the construction of the Janna Bridge in December, 1995.
	M/P 1)	Local Cost	Foreign Cost																																		
	2)																																				
	F/S 1)	865,000																																			
	2)	42,932	11,249		31,683																																
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2.NAME OF STUDY	River & Erosion Control / Drainage Improvement in North West Region	3.CONTENTS OF MAJOR PROJECT(S)																																			
3.SECTOR	Social Infrastructure/River & Erosion Control	<M/P> Stagewise Development Plan established 1) Short-term plan (1993-1997: Investment Cost US\$580 million) Gaibandha Improvement, Lower Atrai (Folder C&D), L.Jamuna Right Bank, Other FAP projects and On-going projects (Bogra Polder 2 and Gazaria Ichamati) 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 Hurasagar, Mohananda Right Bank 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																																			
4.REFERENCE NO.				4.FEASIBILITY AND ITS ASSUMPTIONS		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">Feasibility:</td> <td style="width: 10%;">EIRR1)</td> <td style="width: 10%;">10.00</td> <td style="width: 10%;">FIRR1)</td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>Yes/No</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> <td></td> </tr> </table>			Feasibility:	EIRR1)	10.00	FIRR1)			Yes/No	EIRR2)		FIRR2)				EIRR3)		FIRR3)													
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		EIRR3)		FIRR3)																																	
5.TYPE OF STUDY	M/P+F/S	Imp. Period:		1993. -2003.																																	
6.COUNTERPART AGENCY	Flood Plan Coordination Organization, Ministry of Irrigation	10.STUDY TEAM No.of Members 9 Period Jan.1991-Jan.1993(25 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Total M/M</td> <td style="width: 30%;">Japan</td> <td style="width: 30%;">Field</td> </tr> <tr> <td>82.67</td> <td>1.26</td> <td>81.41</td> </tr> </table>		Total M/M	Japan	Field	82.67	1.26	81.41																												
Total M/M	Japan			Field																																	
82.67	1.26	81.41																																			
7.OBJECTIVES OF STUDY	Formulating a master plan for flood control and drainage improvement	Conditions and Development Impacts: <M/P> 1)Planning concepts -Design scale: probable flood with a return period of 20 years -Minimizing adverse effect due to provision of flood control and drainage facilities -Maintaining consistency with the existing project in the North West Region -Applying basic concepts of FAP projects, controlled flooding, compartmentalisation and flood proofing. 2)Criteria for establishing the Master Plan -Economic effectiveness(mitigable flood damage, enhancement of land use and increase of paddy product, and construction cost) -Degree of influence against social and natural environment -Scale of the project -Benefits for landless peoples. <F/S> The mentioned measures were selected based on hydraulic modelling for the design flood with return period of 20 years, construction costs and project benefits, degree of influence against natural and social environment. The major benefits of the project are sustainability of stable agricultural product in the area to be eroded along the Teesta river by provision of river training works, stabilization of living of																																			
8.DATE OF S/W	1990/6	5.TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION																																	
9.CONSULTANT(S)	Nippon Koei Co., Ltd. Nikken Consultants., Inc.	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.		①, ② Ministry of Irrigation, ③																																	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY				2.MAJOR REASONS FOR PRESENT STATUS																																	
Topographic and Geological Survey, Soil Test																																					
12.EXPENDITURE																																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Total</td> <td style="width: 10%;">351,342 (Y'000)</td> </tr> <tr> <td>Contracted</td> <td>320,000</td> </tr> </table>		Total	351,342 (Y'000)	Contracted	320,000																																
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和名 北西地域洪水防備排水計画

状況 (要約表添付文書)

ASO BGD/S 203B/92	(M/P+F/S)
Name of River & Erosion Control / Drainage Improvement in North West Region Study	
Country	Bangladesh
Type of Study	M/P+F/S
Sector	Social Infrastructu/River & Erosion Control
Present Status: Promoting	
(Description)	
<p>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.</p> <p>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.</p> <p>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.</p> <p>(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.</p> <p>(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.</p> <p>(FY1995 Domestic Survey) FPCO have took up "Gaibandha Improvement Project" as for the prior project. However, since the arrangement among the whole of FAP is not completed as yet, it seems to take rather long period until the commencement of the implementation.</p> <p>(FY1995 Overseas Survey) FAP1(Bramaputra Training) has started its construction by IDA. ADB has just approved a technical assistance amounting to more than 81 million for assessing economic, social and environmental impact to the N-W region by the construction of the Janna Bridge in December, 1995. Relative feasibilities and priorities of the various projects will be affected by the factors such as poverty, environment and people's participation, which are considered in addition to economic evaluation as was already done.</p>	

PROJECT SUMMARY (F/S)

Compiled Mar.1994
Revised Mar.1996

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		Northwest Region adjacent to Indea, 59,400ha bounded by the existing embankment		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Kurigram Irrigation and Flood Control Project -South Unit-	2.PROJECT COST					
		(US\$1,000)	1) 58,700	42,700	16,000		
			2)				
			3)				
3.SECTOR	Agriculture/Irrigation, Drainage & Reclamation	3.CONTENTS OF MAJOR PROJECT(S)				(Description) Government of Bangladesh have an intention to implement the project, however, implementation will delay depending on the FAP 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)(FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) The grant aid for this project has already been requested GOB plans to implement the embankment by their own. This project has been given high priority as it covers the area where is used to suffer the flood disaster in every year. Construction of the drainage facilities and extension of embankment for flood protection are planned.	
4.REFERENCE NO.		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 1904 to 2248					
5.TYPE OF STUDY	F/S	2. Drainage Improvement : Draining network will be improved through rehabilitation works of existing drainage channels					
6.COUNTERPART AGENCY	Bangladesh Water Development Board	3. Flood control : Rehabilitation of the existing flood bankment.					
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	4. Rural infrastructure : new bridge : 30 infrestruction reconstruction bridge :52 culvert :9					
8.DATE OF SAV	1991/8	Imp. Period: 1994. -2003.					
9.CONSULTANT(S)	Nippon Koei Co., Ltd. Chuo Kaihatsu Cor.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) 28.50 EIRR2) EIRR3)	FRR1) FRR2) FRR3)		
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.					
	Total M/M Japan Field 76.18 23.58 52.60	Conditions: same as Flood Plan Coordinatio Organization, 30 years of project					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topo-Survey, Geological Survey, Chemical Analysis of Water, Plan survey, Route Survey, Farm Economy Survey, Farmers intention survey	Impact: Project impact analysis show the net revenue will increase in every class of farmer sizes. In addition, social impacts are expected in terms of increase in employment opportunity, increase in land value and improvement of local transportation.					
12.EXPENDITURE	Total 262,292 (¥000) Contracted 251,576	5. TECHNICAL TRANSFER					
		Technical transfer was made through joint work in the field study. Training in Japan (one person)					
		2.MAJOR REASONS FOR PRESENT STATUS					
		3.PRINCIPAL SOURCE OF INFORMATION					
		①, ②, ③, ⑥ BWDB					

PROJECT SUMMARY (Basic Study)

Compiled Sep.1995
Revised Mar.1996

ASO BGD/S 501/94

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Bangladesh	1.SITE OR AREA	Approximately 70% of the shore area of Bangladesh		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Geodetic Survey in the People's Republic of Bangladesh	2.PROJECT COST	Total Cost Local Cost Foreign Cost		(Description) Development impacts are not informed since the survey works had completed on this year. A seminar of this survey works is planned to be held until Sep.,1995. On this occasion, the effects of this project will be announced and published.							
3.SECTOR	Social Infrastructure/Survey & Mapping	(US\$1,000)	1) 2)									
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)										
5.TYPE OF STUDY	Basic Study	1)To draw up the plan to protect flood disasters. 2)To draw up the topographic maps of Dhaka metropolitan zone. 3)To rearrange the network of secondary datum lines.										
6.COUNTERPART AGENCY	Survey of Bangladesh (SOB)	4.CONDITIONS AND DEVELOPMENT IMPACTS										
7.OBJECTIVES OF STUDY	To rearrange the network of the datum lines/ points for survey of the country. Technological transfer to SOB.	Development impacts are not appeared as yet because this survey works finished very recently. However, it will be expected the considerable effects in future as this survey works should be the foundation for every development plan.										
8.DATE OF S/W	1991/12	10.STUDY TEAM										
9.CONSULTANT(S)	International Engineering Consultants Association	No.of Members 35 Period Apr.1992-Mar.1995 (36 months)										
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td style="text-align: center;">330.00</td> <td style="text-align: center;">96.00</td> <td style="text-align: center;">234.00</td> </tr> </table>					Total M/M	Japan	Field	330.00	96.00	234.00
Total M/M	Japan	Field										
330.00	96.00	234.00										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS							
Construction of tide examination station, Operation to bury stones		Method of survey of datum points by means of GFS, Method of Analysis and observation for tide examination.										
12.EXPENDITURE					3.PRINCIPAL SOURCE OF INFORMATION							
Total		(¥'000)			①							
Contracted												

PROJECT SUMMARY (F/S)

Compiled Mar. 1990
Revised Mar. 1996

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				I. 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)					
2. NAME OF STUDY		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	
Luntch-Mongar Integrated Agricultural Development Project		(US\$1,000)		1) 8,586	2,336	6,250	
		US\$1=14Nu.		2)		3)	
				3)			
3. SECTOR		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. (FY1995 Domestic Survey) Official request to implement this project is not submitted by the Bhutanese Government as yet. (FY1995 Overseas Survey) There is no possibility to implement this project because of the change of development policy and the convert of the donating country.	
Agriculture/(Agriculture in)General		Following two projects were proposed as model development:					
4. REFERENCE NO.		Main components area		Tangmachhu area	Masandagaza		
5. TYPE OF STUDY		Project area		476ha	125ha		
6. COUNTERPART AGENCY		Intake(new)		3 sites	2 sites		
		Main canal(rehabilitation)		12.6km	9.5km		
Department of Agriculture, Ministry of Agriculture and Forestry		Main canal(new construction)		0	0.9km		
		Secondary canal(rehabilitation)		0.5km	0		
7. OBJECTIVES OF STUDY		Secondary canal(new const.)		0.4km	0.4km		
		Feeder road		5.4km	2.4km		
To formulate an Integrated Agricultural Development plan for the object area and to assess its technical soundness and economic viability.		Agro-processing factory		1 site/90m ² proposed	proposed		
		Agriculture mechanization		Establish one branch in Mogar prefecture for both areas.			
8. DATE OF SAV		Agri. mechanization centre		One office will be established in			
		Agri. extension office		Lingmethang.			
1986/7		9. CONSULTANT(S)		4. FEASIBILITY AND ITS ASSUMPTIONS		2. MAJOR REASONS FOR PRESENT STATUS Caused by the lower priority.	
Nippon Koei Co., Ltd. Nippon Giken Inc.		Feasibility: Yes		EIRR1) 4.60	FIRR1)		
10. STUDY TEAM		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER		3. PRINCIPAL SOURCE OF INFORMATION ①, ②	
		None					
No. of Members 7		12. EXPENDITURE		Technology transfer to counterparts in the course of the Study			
Period Dec. 1987-Nov. 1988 (12 months)							
Total M/M 42.10		137,883 (¥'000)					
Japan 10.00		131,476					
Field 32.10							

PROJECT SUMMARY (Other)

Compiled Mar. 1986

Revised Mar. 1996

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			(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 Infrastructu/Architecture & Housing		Total Cost Local Cost Foreign Cost (US\$1,000) 1) 2,373 (US\$1=232.2 yen) 2)				
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S) The Printing Department has been producing about 70% of governmental printed matters. 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			5. TYPE OF STUDY Other	
6. COUNTERPART AGENCY Government Printing Dept.					7. OBJECTIVES OF STUDY Proposal on improving of Government Printing Dept.	
8. DATE OF S/W /					9. CONSULTANT(S) Kokuyo Co., Ltd.	
10. STUDY TEAM No. of Members 7 Period Sep. 1983-Jan. 1984 (4 months) Total M/M Japan Field 4.32 2.67 1.65		4. CONDITIONS AND DEVELOPMENT IMPACTS [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 machines 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.			2. MAJOR REASONS FOR PRESENT STATUS	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY None		5. TECHNICAL TRANSFER OJT			3. PRINCIPAL SOURCE OF INFORMATION ②	
12. EXPENDITURE Total 14,688 (¥'000) Contracted 11,287						

PROJECT SUMMARY (M/P)

Compiled Mar.1988
Revised Mar.1996

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						(US\$1,000)	Total Cost	Local Cost	Foreign Cost	
3.SECTOR	Transportation/(Transportation in)General	3.CONTENT(S) OF MAJOR PROJECT(S)	B\$1=US\$0.48	1) 72,900			(Description) (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. However, no definite decision has been made. According to the unofficial comment made by the Director of Land Transport Dept., the Japanese government is expected to undertake F/S proposed by this M/P. (FY1992 Overseas Survey) No additional information. (FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information.					
4.REFERENCE NO.		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										
5.TYPE OF STUDY	M/P		4.CONDITIONS AND DEVELOPMENT IMPACTS									
6.COUNTERPART AGENCY	Land Transport Dept.		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.									
7.OBJECTIVES OF STUDY	Preparation of a Master Plan for the improvement and an intermediate programme of the Public Transport System											
8.DATE OF S/W	1984/3											
9.CONSULTANT(S)	Japan Engineering Consultants Co., Ltd.											
10.STUDY TEAM	No.of Members 9 Period Jul.1984-Mar.1985 (8 months) Jun.1985-Jul.1985 <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;">33.63</td> <td style="text-align: center;">19.20</td> <td style="text-align: center;">14.43</td> </tr> </table>	Total M/M	Japan	Field	33.63	19.20		14.43				2.MAJOR REASONS FOR PRESENT STATUS
Total M/M	Japan	Field										
33.63	19.20	14.43										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	None					Unknown						
12.EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">93,943 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">82,647</td> </tr> </table>	Total	93,943 (¥'000)	Contracted	82,647	5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION		
Total	93,943 (¥'000)											
Contracted	82,647											
		1) On the job training 2) Cooperative work for the report preparation				①, ②						

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1995

Revised Mar.1996

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 checked="" type="checkbox"/> Implementing <input 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)		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 for the construction of this(980mil. yen). (FY1995 Domestic Survey) Nov. 1994: Kubota Co., Ltd. has been ordered the 2nd phase construction works (1.6109 billion Yen) Feb. 1995: The 1st phase construction works has been completed. (FY1995 Overseas Survey) Dec. 1994: The 2nd phase construction works was started.	
4.REFERENCE NO.		M/P 1)					
5.TYPE OF STUDY	M/P+F/S	2)					
6.COUNTERPART AGENCY	Phnom Penh Water Supply Authority	F/S 1)	575,560	135,260	440,300		
7.OBJECTIVES OF STUDY	Formulation of M/P, Basic study on the urgent rehabilitation works	2)					
8.DATE OF S/W	1992/10	3)					
9.CONSULTANT(S)	Tokyo Engineering Consultants Co., Ltd. Nihon Suido Consultants Co., Ltd.	3.CONTENTES OF MAJOR PROJECT(S)					
10.STUDY TEAM	No.of Members 19 Period Jan.1993-Dec.1993(12 months)	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). 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. 3.Basic Study Same as 1-1. above					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Trial digging Topographical Survey, Soil boring	Imp. Period: 1994. -2010.					
12.EXPENDITURE	Total 272,656 (¥'000) Contracted 247,804	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
		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 1996 and 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.					
		5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION	
		Water quality analysis, Measurement of distribution pressure, Estimation of water demand, Leakage survey				①, ②	

和名 プノンペン市上水道整備計画調査

{M/P+F/S}

PROJECT SUMMARY (M/P+F/S)

Compiled Sep.1995
Revised Mar.1996

ASO KHM/A 201/94

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Cambodia	1.SITE OR AREA	Tonle Bati area at Takeo Province, Kandal Stung area at Kandal Pvovince			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	Integrated Agricultural and Rural Development Project in Suburbs of Phnom Penh	2.PROJECT COST (US\$1,000)	M/P 1) 66,800 2) Local Cost	F/S 1) 23,160 2) Foreign Cost	43,640 3)		
3.SECTOR	Agriculture/Irrigation, Drainage & Reclamation	3.CONTENTS OF MAJOR PROJECT(S)				(Description) The Government of Cambodia requested the assistance to implement this project to the Government of Japan. However, the implementation has been delayed without a clear reason (it seems to be security problems). (FY1995 Overseas Survey) The Ministry of Agriculture, Forestry and Fishery requested a grant aid to the Japanese Government on August,1994 and hopes that JICA will start to implement the project as soon as possible.	
4.REFERENCE NO.		1) Irrigation drainage project : Modification and repair of existing facilities and establishment of additional facilities in Tonle Bati area (approx.6,000ha) and Kandal Stung area (approx.10,000ha).					
5.TYPE OF STUDY	M/P+F/S	2) Reinforcement of Agricultural support services : Improvement of Agriculture Development Center (including establishment of new facilities), reinforcement of supplying capacity of various farming equipment and materials, and settlement of model farms.					
6.COUNTERPART AGENCY	Ministry of Agriculture	3) Organization of farmers association to improve the living standard : Establishment of an union for water distribution, expansion and improvement of the Development Center and branches, training of staff and supply of necessary equipment.					
7.OBJECTIVES OF STUDY	Formulation of the Master Plan on rural area development including arrangement of the basic foundation of the rural areas such as irrigation etc., improvement of agricultural techniques and living standard for farm households. Feasibility study on the selected model area.	4) Infrastructure for rural area : Improvement of water supply, farm roads schools and clinics, etc.					
8.DATE OF S/W	/	Imp. Period:					
9.CONSULTANT(S)	Nippon Koei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) 12.00 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10.STUDY TEAM	No.of Members 10 Period Mar.1993-Mar.1995(24 months)	Conditions and Development Impacts: [Conditions] In the first phase the project will be implemented at 1,600ha in Tonle Bati area and 1,950ha in Kandal Stung area. In addition, taking back to Prekt Not Dam is essential.					
	Total M/M 70.67 Japan 30.36 Field 40.31	[Development Impacts] 1) Increase of agricultural products : Chaff 14,500t/y, Corn 1,500t/y, Soybeans 760t/y, Vegetables 5,100t/y, Piggs 2,700/y 2) Farmers' economy : Revenue is expected to increase by 3 to 5 times of the present level. 3) Improvement of living standard : Stabilization of rural life and society.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Soil Test, Geological Survey, Topographic Survey, Water Quality Test, Pumping Test, Topographic Mapping and Settlement of Various Facilities for	5. TECHNICAL TRANSFER					
12.EXPENDITURE	Total 246,936 (¥'000) Contracted					3.PRINCIPAL SOURCE OF INFORMATION	
						①, ②	

和名 プノンペン周辺地域農村総合開発計画

[M/P+F/S]

PROJECT SUMMARY (Other)

Compiled Mar. 1990

Revised Mar. 1996

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	(US\$1,000)	Total Cost Local Cost Foreign Cost	(Description) CECF loans have been agreed as follows. <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"></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: center;">7,085</td> <td style="text-align: center;">10,100</td> <td style="text-align: center;">2,500</td> </tr> <tr> <td>Dec. 1981</td> <td style="text-align: center;">9,860</td> <td style="text-align: center;">3,110</td> <td style="text-align: center;">11,200</td> </tr> <tr> <td>Apr. 1982</td> <td style="text-align: center;">18,500</td> <td style="text-align: center;">3,200</td> <td style="text-align: center;">9,200</td> </tr> <tr> <td>Oct. 1982</td> <td style="text-align: center;">2,300</td> <td style="text-align: center;">11,800</td> <td style="text-align: center;">30,900</td> </tr> <tr> <td>Aug. 1983</td> <td style="text-align: center;">5,200</td> <td style="text-align: center;">11,500</td> <td style="text-align: center;">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																												
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																												
3. SECTOR	Transportation/Port	3. CONTENTS OF MAJOR PROJECT(S)	1) 2) Feasibility study on Shijiusuo as a port of coal export and iron ore import and on Qinhuangdao as a port of coal export.																												
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	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.																												
5. TYPE OF STUDY	Other	10. STUDY TEAM	No. of Members 11 Period Jan. 1980-Feb. 1980 (1 months)																												
6. COUNTERPART AGENCY	National Basic Construction Committee	Total M/M Japan Field		2. MAJOR REASONS FOR PRESENT STATUS																											
7. OBJECTIVES OF STUDY		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY																													
8. DATE OF S/W	/	12. EXPENDITURE	Total 8,186 (¥'000) Contracted																												
9. CONSULTANT(S)	Overseas Coastal Area Development Institute	5. TECHNICAL TRANSFER																													
		3. PRINCIPAL SOURCE OF INFORMATION	①																												

和名 港湾建設計画

[M/P, Basic Study, Other]

PROJECT SUMMARY (Other)

Compiled Mar.1986

Revised Mar.1996

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 (US\$1,000)			(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. (FY1995 Domestic Survey) Since the Japan National Railway had been devided and privatized, it is impossible to gain the informations concerns (According to JR Eastern Japan Co.).			
3.SECTOR Transportation/Railway		Total Cost Local Cost Foreign Cost 1) 2)						
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)						
5.TYPE OF STUDY Other		A group of long-term and short-term experts was assigned to assist for the modernization of Chinese railways. 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								
7.OBJECTIVES OF STUDY Technical cooperation								
8.DATE OF SAW 1979/3								
9.CONSULTANT(S)		4.CONDITIONS AND DEVELOPMENT IMPACTS						
10.STUDY TEAM		The study will contribute to the modernization of Chinese railways.					2.MAJOR REASONS FOR PRESENT STATUS	
No.of Members 44 Period Jul.1979-Sep.1981(26 months)								
Total M/M Japan Field								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION			
12.EXPENDITURE		1) Training in Japan. 2) OJT						
Total 47,756 (¥000) Contracted					①, ③			

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1996

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/(Agriculture in)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			
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 1985 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 weather.		Following researches will be conducted to get basic technical data for agricultural development in San Jiang Plain 1.Research on breeding and cultivation of cold-proof seeds 2.Research on farm land improvement in a cold area with low humidity					
8.DATE OF SAW		1984/8					
9.CONSULTANT(S) Agricultural Development Consultants Association		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)		
10.STUDY TEAM		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	
No.of Members 9 Period Sep.1984-Mar.1985 (7 months)							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY						3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE		5.TECHNICAL TRANSFER					
Total 54,180 (¥000) Contracted 46,378		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 done through operation between irrigation research institute and integrated agricultural research				①, ③	

和名 三江平原農業綜合試驗場基本計画

(F/S,D/D)

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1996

ASO CHN/A 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 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		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		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
Agriculture/(Agriculture in)General		(US\$1,000)		320,000	220,000	100,000	
		(US\$1=1.98 Yuan in 1983)		1)	2)	3)	
				3)			
4.REFERENCE NO.		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. (FY1995 Domestic Survey) It is learnt that both countries have agreed to make this Project as one of the 4th yen Credit Project on the annual conference on FY 1994.	
5.TYPE 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.					
6.COUNTERPART AGENCY							
Ministry of Agriculture, Animal Husbandry and Fishery							
7.OBJECTIVES OF STUDY		4.FEASIBILITY AND ITS ASSUMPTIONS					
8.DATE OF SAW		Feasibility: Yes		EIRR1) 11.56	FIRR1)		
9.CONSULTANT(S)				EIRR2)	FIRR2)		
Agricultural Development Consultants Association				EIRR3)	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)							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					
Topographic & Geological Survey, Soil Test, Water Quality Test.		1.Training in Japan: 3 times, total 27 persons		2.Training during the study period: several times			
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION					
Total 931,354 (¥'000)		①, ②, ③					
Contracted 758,606							

PROJECT SUMMARY (F/S)

Compiled Mar. 1988
Revised Mar. 1996

ASO CHN/S 303/84

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="" 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	Tianjin, Shanghai and Guangzhou Telecommunication Expansion Project	2. PROJECT COST		Total Cost	Local Cost			Foreign Cost
3. SECTOR	Communications & B/Telecommunication			1) (US\$1,000)	2) (US\$1=251 yen)	(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 (9,396 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.				207,570	33,466			174,104
5. TYPE OF STUDY	F/S	3. CONTENTS OF MAJOR PROJECT(S)						
6. COUNTERPART AGENCY	Ministry of Posts and Telecommunications of the People's Republic of China							
7. OBJECTIVES OF STUDY	Elaborating the Telecommunications Network Expansion Project in Tianjin, Shanghai and Guangzhou, three major coastal cities of the People's Republic of China, and carrying out its feasibility study.							
8. DATE OF S/W	1983/6	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 upto 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.						
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	none	5. TECHNICAL TRANSFER		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				
12. EXPENDITURE	Total 182,687 (¥'000) Contracted 168,036							2. MAJOR REASONS FOR PRESENT STATUS
						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	①, ④	

和名 天津・上海・广州電気通信網改造計画

[F/S, D/D]

PROJECT SUMMARY (F/S)

Compiled Mar. 1988
Revised Mar. 1996

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 Chinwangtao, Lieyunkang and Tsingtao Ports	1. Qinhuangdao 2. Lianyung 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	94,821																															
5. TYPE OF STUDY	F/S	(US\$1=251 yen)	2)	452,589	312,350	140,239	OECF 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;">Lianyung</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: right;">-</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) Lianyung 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: OECF 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. (FY1995 Domestic Survey) No additional information.				Qinhuangdao	Lianyung	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
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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 developemnt plan of 1990 as target year.	1) Qinhuangdao		2) Lianyung	3) Qingdao																																
8. DATE OF S/W	1983/6	Imp. Period: 1983.1-1988.12		1985.1-1989.12	1985.1-1989.1																																
9. CONSULTANT(S)	Overseas Coastal Area Development Institute	4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 27.90	FIRR1) 6.08																															
10. STUDY TEAM	No. of Members 19 Period Jul. 1983-Sep. 1984 (15 months)	Conditions and Development Impacts:		EIRR2) 17.20	FIRR2) 4.11	EIRR3) 12.20																															
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	none	Development Impacts:		EIRR3) 12.20	FIRR3) 6.39																																
12. EXPENDITURE	Total 297,053 (Y'000) Contracted 268,748	Projection of cargo volume in 1990		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.																																	
		Qinhuangdao 6,730 thousand tons		2. MAJOR REASONS FOR PRESENT STATUS High priority as a national project																																	
		Lianyung 19,400 thousand tons																																			
		Qingdao 36,000 thousand tons		3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ③, ④																																	
		5. TECHNICAL TRANSFER																																			
		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、青島港前海港区建設工事

[F/S,D/D]

PROJECT SUMMARY (F/S)

Compiled Mar.1988

Revised Mar.1996

ASO CHN/S 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		Between Hengyang and Guangzhou--Section 1 Between Zhengzhou and Baoji--Section 2																																																			
3. SECTOR		2. PROJECT COST				(Description)																																															
Transportation/Railway		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;">Total Cost</td> <td style="width: 10%;">Local Cost</td> <td style="width: 10%;">Foreign Cost</td> <td></td> </tr> <tr> <td>(US\$1,000)</td> <td>1)</td> <td>530,657</td> <td>216,753</td> <td>313,904</td> <td></td> </tr> <tr> <td>(US\$1=251 yen)</td> <td>2)</td> <td>923,808</td> <td>545,852</td> <td>377,956</td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						Total Cost	Local Cost	Foreign Cost		(US\$1,000)	1)	530,657	216,753	313,904		(US\$1=251 yen)	2)	923,808	545,852	377,956			3)					-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-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">Hengyang</td> <td style="width: 10%;">Zhengzhou</td> </tr> <tr> <td></td> <td>- Guangzhou</td> <td>- Baoji</td> </tr> <tr> <td>Oct.1984</td> <td>10,192</td> <td>7,575</td> </tr> <tr> <td>Aug.1985</td> <td>26,822</td> <td>13,258</td> </tr> <tr> <td>Jun.1986</td> <td>24,491</td> <td>9,462</td> </tr> <tr> <td>Jul.1987</td> <td>8,789</td> <td>31,396</td> </tr> <tr> <td>Aug.1988</td> <td></td> <td>7,500</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">(million yen)</td> </tr> </table>			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	
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4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)				(FY1994 Domestic Survey) Hengyang Guang-zhou This project was completed in 1988 aiming at strengthening the transport capacity Zhengzhou-Baoji. Of 68km between Zhengzhou and Baoji, the 26km 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.																																															
5. TYPE OF STUDY		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.																																																			
6. COUNTERPART AGENCY		7. OBJECTIVES OF STUDY				(FY1994 Overseas Survey) (Please turn over) (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 OECF 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%) by 80 electric locomotives purchased from Japanese firm.																																															
Planning and Statistics Bureau, Ministry of Railways		F/S for transport capacity reinforcement(double tracking electrification, structure reinforcement, etc.)																																																			
8. DATE OF SAV		9. CONSULTANT(S)				2. MAJOR REASONS FOR PRESENT STATUS																																															
1983/6		Japan Railway Technical Service																																																			
10. STUDY TEAM		4. FEASIBILITY AND ITS ASSUMPTIONS				3. PRINCIPAL SOURCE OF INFORMATION																																															
No. of Members 20 Period Jul.1983-Aug.1984(13 months)		Imp. Period: 1984.1-1988.12 1984. -1988. Feasibility: Yes EIRR1) 41.65 FIRR1) 19.40 EIRR2) 30.12 FIRR2) 8.70 EIRR3) FIRR3)																																																			
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None		The study term prepared and submitted to the counterparts technical reports(site reports, minutes of discussion,etc.).																																																			
12. EXPENDITURE																																																					
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狀況 (要約表添付文書)

ASO CHN/S 302/84	(F/S)																								
Name of Study Double Tracking and Electrification Project of Railways between Hengyang and Kwangchow, and Electrification Project of Railways																									
Country	China																								
Type of Study	F/S																								
Sector	Transportation/Railway																								
Present Status: Completed																									
(Description)																									
<p>-Detailed designs were completed by the Ministry of Railways</p> <p>-OECF loans were approved and the project was duly implemented as follows.:</p>																									
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<p>(FY1994 Domestic Survey)</p> <p>Hengyang Guang-zhou</p> <p>This project was completed in 1988 aiming at strengthening the transport capacity Zhengzhou-Baoji.</p> <p>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.</p> <p>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.</p>																									
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<p>(FY1994 Overseas Survey)</p> <p>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 OECF loan (2nd round), which were divided into several times, and completed in 1987.</p> <p>2) According to Japan's F/S, Chinese Ministry of Railways conducted D/D.</p> <p>3) After the electrification, annual transportation capacity between Chengchow and Paoki was raised from 40 million to 60 million tons (50%) by 80 electric locomotives purchased from Japanese firm.</p> <p>4) Annual transportation capacity between Hengyang and Kwangchow was raised from 20 million to 40 million tons by the double tracking and electrification. Train was also due to improvement of gradients and curves. The method of tunnel construction at the time of Dayan Shan Tunnel has been utilized for subway construction as well as automation and reduction of other tunnel constructions.</p> <p>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.</p> <p>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.</p>																									

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1996

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	Zoning plan of the coastal area Long term M/P F/S on the development plan aiming at the year 1990	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)(FY1995 Domestic Survey) No additional information.	
8.DATE OF SAW	1985/10	The 1st Phase Plan for the year of 1990 is as follows:					
9.CONSULTANT(S)	Overseas Coastal Area Development Institute Toko Engineering Consultants Ltd.	Unit	m	920			
10.STUDY TEAM	No.of Members 13 Period Jan.1986-Mar.1987(15 months)	- Wharf		2(25,000DWT)			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	none	- Berth		1(15,000DWT)			
12.EXPENDITURE	Total 181,859 (¥'000) Contracted 177,438	- Revetment	m	500			
		- Breakwater	m	100			
		- Dredging	X 1,000cu.m	2,860			
		- Reclamation	X 1,000cu.m	4,210			
		4.FEASIBILITY AND ITS ASSUMPTIONS				2.MAJOR REASONS FOR PRESENT STATUS	
		Feasibility:	Yes	EIRR1) 12.80	FIRR1) 2.20		
		Conditions and Development Impacts: [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.				3.PRINCIPAL SOURCE OF INFORMATION ①, ②, ③, ④	
		[Development Impacts] 1.Direct benefits 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. 2.Indirect benefits 1)Promotion of industrial development in the eastern area of Shenzhen City 2)Promotion of the urban development of Yantian 3)Increase of the job opportunities 4)Promotion of economic development in Huanan					
		5.technical transfer					
		OJT(on the job Training) by the Seminar.					

PROJECT SUMMARY (F/S)

Compiled Mar. 1990
Revised Mar. 1996

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				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 Subway Project of Shanghai		Shanghai and its suburbs (Shanghai new station-Xin Longhua)					
3. SECTOR Transportation/Railway		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4. REFERENCE NO.		(US\$1,000)	1)	1,170,754	861,226		
5. TYPE OF STUDY F/S		(US\$1=159 yen)	2)				
6. COUNTERPART AGENCY Science and Technology Commission of Shanghai Municipality, Bureau of Shanghai Municipal Engineering Administration, etc.		3)	3. CONTENTS OF MAJOR PROJECT(S)				
7. OBJECTIVES OF STUDY F/S for constructing a subway to improve urban transport in Shanghai		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, telecommunications 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 control system (CS-ATC), centralized train control system (CTC).				(Description) -OECF 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 1995. 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. (FY1995 Domestic Survey) No additional information.	
8. DATE OF S/W 1985/1		Imp. Period: 1986. -1991.		4. FEASIBILITY AND ITS ASSUMPTIONS			Feasibility: Yes
9. CONSULTANT(S) Japan Railway Technical Service		EIRR1)	8.70	EIRR1)	1.14	2. MAJOR REASONS FOR PRESENT STATUS Although loans from Japan had been originally planned, this was not accepted by the Chinese government.	
10. STUDY TEAM No. of Members 13 Period May. 1985-Aug. 1986 (15 months)		EIRR2)		EIRR2)			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY None		EIRR3)		EIRR3)		3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ③	
12. EXPENDITURE		5. TECHNICAL TRANSFER					
Total 196,815 (Y'000)		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					
Contracted 191,021							

和名 上海都市快速鉄道整備計画

[F/S,D/D]

PROJECT SUMMARY (M/P)

Compiled Mar. 1990
Revised Mar. 1996

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)(FY1995 Domestic Survey) No additional information:
3. SECTOR	Administration/Environmental Problems	(US\$1,000)	1) 127,000			
4. REFERENCE NO.		(US\$1=125Yen)	2)			
5. TYPE OF STUDY	M/P	3. CONTENTS OF MAJOR PROJECT(S)				
6. COUNTERPART AGENCY	Department of Environment, Municipality of Shanghai	- 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:				
7. OBJECTIVES OF STUDY	Air Pollution Control	Reduction policy	Factory	Reduction of SOx (ton/year)	Initial Investment (million year)	
8. DATE OF S/W	1985/10	Energy Saving,	58	496	14.53	
9. CONSULTANT(S)	Pacific Consultants International Research, Analysis and Computing	Coal Pelleting,	14	196	0.84	
10. STUDY TEAM	No. of Members 16 Period Jan. 1986-Feb. 1988 (26 months)	Fuel Change (Coal to oil),	1	12,732	0.01	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	Factory removal,	4	2,519	225.63	
12. EXPENDITURE	Total 385,188 (¥'000) Contracted 224,269	Floating floor combustion,	133	23,087	389.80	
		Desulfurization of the factories,	73	16,891	208.61	
		Desulfurization of the power plants,	1	238,301	396.03	
		Large-scale Concentrated power supply,	21km2	12,233	336.00	
		Total		306,897	1,574.88	
		4. CONDITIONS AND DEVELOPMENT IMPACTS				
		[Conditions] The amounts of coal/oil consumption are expected to be follows: (mill. ton)				
			1985	2000		
		coal	18	52		
		oil	3	2.5		
		[Impacts] The exhaust amount of SO2 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 SO2 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 SO2 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.				
		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				
		3. PRINCIPAL SOURCE OF INFORMATION				
		①, ②				
		2. MAJOR REASONS FOR PRESENT STATUS				

和名 上海市大气污染对策

[M/P, Basic Study, Other]

PROJECT SUMMARY (Basic Study)

Compiled Mar. 1990
Revised Mar. 1996

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			I. PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input checked="" type="checkbox"/> Discontinued				
2. NAME OF STUDY	Groundwater Development Project in Tianjin City	Tianjin City	2. PROJECT COST	Total Cost Local Cost Foreign 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. (FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) The results of this survey work are not utilized because the water resource is very far from the city and the cost to send the water is quite expensive.					
3. SECTOR	Social Infrastructure/Water Resource Development		(US\$1,000)	1) 32,300						
4. REFERENCE NO.			(US\$1=130Yen)	2)						
5. TYPE OF STUDY	Basic Study	3. CONTENTS OF MAJOR PROJECT(S)								
6. COUNTERPART AGENCY	Science and Technology Council and Dept. of Geology and Mining of Tianjin City	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.								
7. OBJECTIVES OF STUDY	Survey of water resources to develop a water supply system									
8. DATE OF S/W	1985/6	4. CONDITIONS AND DEVELOPMENT IMPACTS								
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Japan Engineering Consultants Co., Ltd.	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)									
	<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;">41.70</td> <td style="text-align: center;">11.50</td> <td style="text-align: center;">30.20</td> </tr> </table>	Total M/M	Japan	Field			41.70	11.50	30.20	
Total M/M	Japan	Field								
41.70	11.50	30.20								
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Trust the Domestic Analysis									
12. EXPENDITURE		5. TECHNICAL TRANSFER								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Total</td> <td style="width: 33%;">293,643 (¥'000)</td> <td style="width: 33%;">OJT and JICA training on water resource simulation in Japan</td> </tr> <tr> <td>Contracted</td> <td style="text-align: center;">113,258</td> <td></td> </tr> </table>	Total	293,643 (¥'000)	OJT and JICA training on water resource simulation in Japan	Contracted	113,258				
Total	293,643 (¥'000)	OJT and JICA training on water resource simulation in Japan								
Contracted	113,258									
					2. MAJOR REASONS FOR PRESENT STATUS					
					3. PRINCIPAL SOURCE OF INFORMATION					
					①, ②					

PROJECT SUMMARY (F/S)

Compiled Mar.1990

Revised Mar.1996

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 Hiraikyo Multipurpose Dam Construction Project		Hokkou River basin, Guangzhou Province							
3.SECTOR Social Infrastructu/Water Resource Development		2.PROJECT COST		Total Cost	Local Cost	(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. (FY1995 Domestic Survey) No additional information.			
4.REFERENCE NO.				298,500	174				
5.TYPE OF STUDY		F/S							
6.COUNTERPART AGENCY Pearl River Water Resources Commission		3.CONTENTS OF MAJOR PROJECT(S)							
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							
8.DATE OF SAV		1985/12		Imp. Period: 1989.1-1995.10					
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		Conditions and Development Impacts: Condition: 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.							
No.of Members 13 Period Jun.1986-Oct.1987(17 months)								2.MAJOR REASONS FOR PRESENT STATUS	
Total M/M	Japan	Field							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY None									
12.EXPENDITURE								3.PRINCIPAL SOURCE OF INFORMATION ①, ②	
Total		225,097 (¥'000)							
Contracted		97,907							

和名 北江飛來峡多目的ダム建設計画

{F/S,D/D}

PROJECT SUMMARY (F/S)

Compiled Mar. 1990
Revised Mar. 1996

ASO CHN/S 307/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT								
1. COUNTRY	China	1. SITE OR AREA		Southern zone of Shanghai City		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	Kouhokou River Bridge Construction Project	2. PROJECT COST		Total Cost	Local Cost			Foreign Cost						
3. SECTOR	Transportation/Road			(US\$1,000)	1)	305,000	188,000	117,000						
4. REFERENCE NO.				(US\$1=125Yen)	2)									
5. TYPE OF STUDY	F/S			3)										
6. COUNTERPART AGENCY	Public Relations Office for Kouhokou Bridge Construction	3. CONTENTS OF MAJOR PROJECT(S)		Municipality of Shanghai, PRC, is making great effort to develop the Pudong New Area which expands at east bank of Huangpu River flowing down in the central part of Shanghai urban area. This Pudong New Area is connected only by tunnels and new transportation facilities crossing the River are indispensable element for the development of the Area. The project aims to construct the six lanes traffic corridor between both banks. Total length of the corridor is some 8km. Main bridge is cable stayed bridge having 400m center span length (total bridge length 657m). For project site acquisition compensation for factories, stores, etc 123 thousand m ² , construction of new houses (350 thousand m ²), and farm land acquisition (133 thousand m ²) are planned.										
7. OBJECTIVES OF STUDY	Economic and financial analysis of the new bridge construction	8. DATE OF S/W						1986/11		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 12.80	FIRR1) 8.70
8. DATE OF S/W	1986/11	9. CONSULTANT(S)						Chodai Co., Ltd. Pacific Consultants International		EIRR2)		EIRR3)		FIRR2)
9. CONSULTANT(S)		10. STUDY TEAM		No. of Members 12 Period Feb. 1987-Mar. 1988 (14 months)		Conditions and Development Impacts: Assumptions for IRR calculation: - Traffic projections in four points of time - Six traffic lanes - Tolls for vehicles are the same as the current charges of ferry services or tunnel passage Development Impacts: - Reduction of travel time and of distance crossing Huangpu - Development in the eastern bank of the river - Alleviation of traffic and housing congestions in the western bank of the River		(FY1991 Overseas Survey) The construction was completed as the Nanpu Bridge. (FY1994 Domestic Survey) After the opening of the bridge on Nov. 1991, the number of vehicles using the bridge is steadily increasing with the progress of the Pudong Area development. Together with the completion of Yangpu Bridge between Fuxi and Pudong Areas, both bridges are being used as the two major traffic corridors between the two areas. The Pudong Area in Shanghai is developing remarkably in recent years, which means that the completion of the Nanpu Bridge greatly contributes to the improvement of investment circumstance for Pudong Area. (FY1994 Overseas Survey) No additional information.						
10. STUDY TEAM		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		O/D survey over Kouhokou River, Geological Survey made by Chinese side.		5. TECHNICAL TRANSFER						On-the-job training on the O/D survey and analysis.		2. MAJOR REASONS FOR PRESENT STATUS
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE		Total 92,541 (¥'000) Contracted 87,037		3. PRINCIPAL SOURCE OF INFORMATION		①, ②, ③						
12. EXPENDITURE														

和名 上海市黄浦江架橋計画

[F/S,D/D]

PROJECT SUMMARY (M/P)

Compiled Mar.1990
Revised Mar.1996

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)		I.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			Total Cost Local Cost Foreign Cost (US\$1,000) 1) 20,937,500 (US\$1=3.2 yuan) 2)	(Description) 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. (FY1995 Domestic Survey) No additional information.																		
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) Note: The cost above is the total investments during 1986 - 2005 (1985 price).																					
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS																						
5.TYPE OF STUDY	M/P	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)																						
6.COUNTERPART AGENCY	National Planning Commission Dept. of Land, Province of Guangdong and Office of Integrated Development, Hainan District	Development targets (in billion yuan):																						
7.OBJECTIVES OF STUDY	Formulation of a master plan through 2005	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">1995</td> <td style="text-align: center;">2005</td> </tr> <tr> <td>Gross Regional Product</td> <td style="text-align: center;">16.0</td> <td style="text-align: center;">34.4</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> </tr> <tr> <td>Gross Agri. Product</td> <td style="text-align: center;">5.1</td> <td style="text-align: center;">8.7</td> </tr> <tr> <td>Gross Indus. Product</td> <td style="text-align: center;">5.2</td> <td style="text-align: center;">12.6</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> </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																						
8.DATE OF SW	1985/12																							
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 border="1" style="margin-left: auto; margin-right: auto;"> <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;">153.41</td> <td style="text-align: center;">42.50</td> <td style="text-align: center;">110.91</td> </tr> </table>	Total M/M	Japan	Field	153.41	42.50	110.91																	
Total M/M	Japan	Field																						
153.41	42.50	110.91																						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					2.MAJOR REASONS FOR PRESENT STATUS																			
12.EXPENDITURE	Total 443,011 (¥'000) Contracted 414,792	5. TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION																			
					①, ②, ④																			

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1990

Revised Mar.1996

ASO CHN/A 201B/88

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 (US\$1,000)	M/P 1) 17,765 2) Cost	Local 11,313 Foreign Cost	6,452					
3.SECTOR	Animal Husbandry/Animal Husbandry	3.CONTENT(S) 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 research 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. Meat 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. (FY1995 Overseas Survey) The peoples' government of Gansu Province much appreciates the results of this survey works of the project, however, is anxious about to find the financial resources. At present, Japanese grant aid has been requested for the project "to recover the balance of ecology and to develop the resources of animal husbandry" and for the mini-project "to transplant the embryonic region of cows".				
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS				Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
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	Imp. Period:					1990. -2000.			
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	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">155,358 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>132,921</td> </tr> </table>		Total	155,358 (¥000)	Contracted	132,921	3.PRINCIPAL SOURCE OF INFORMATION ①、②、③	
Total	155,358 (¥000)									
Contracted	132,921									
8.DATE OF SAV	1987/6									
9.CONSULTANT(S)	Japan Agricultural Land Development Agency									

和名 甘肃省閩井地区牧畜業開発計画

[M/P+F/S]

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1990
Revised Mar.1996

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				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		Dalian Port (1986 throughput of 44.3 million tons) and Daiyou Bay					
3. SECTOR Transportation/Port		2. PROJECT COST (US\$1,000)		Local Cost	Foreign Cost	(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)(FY1995 Domestic Survey) No additional information.	
4. REFERENCE NO.		M/P 1) 2) F/S 1) 2) 3)		185,020	105,820		
5. TYPE OF STUDY M/P+F/S		3. CONTENTS OF MAJOR PROJECT(S)				<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)	
6. COUNTERPART AGENCY Traffic Dept., Dalian Port Authority		4. FEASIBILITY AND ITS ASSUMPTIONS					
7. OBJECTIVES OF STUDY Specific improvements for Old Port and a development plan for a New Port at Daiyu Bay		10. STUDY TEAM				2. MAJOR REASONS FOR PRESENT STATUS	
8. DATE OF SAW 1986/11		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 urban development in the economical & technical development areas. 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.		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY None				3. PRINCIPAL SOURCE OF INFORMATION ①, ③	
12. EXPENDITURE		5. TECHNICAL TRANSFER					
Total 303,894 (V'000)		Seminars carried out in China and technical transfer in Japan. (Number of the trainees is not clear.)					
Contracted 240,779							

和名 大連港港湾整備計画

(M/P+F/S)

PROJECT SUMMARY (F/S)

Compiled Mar.1990

Revised Mar.1996

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		Total Cost	Local 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) 1993.1.15 : 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/(Agriculture in)General				Foreign Cost				
4.REFERENCE NO.				1) 30,180	16,900			13,280
5.TYPE OF STUDY F/S		3.CONTENT(S) OF MAJOR PROJECT(S)		2) 40,660	23,000	17,660		
6.COUNTERPART AGENCY Committee of Science and Technology		In Ebeigangdi, Hubei Province where there are frequent typhoons, the F/S of the projects was completed to provide stable irrigated agriculture.		3) 3,700				
7.OBJECTIVES OF STUDY Irrigation Development				(US\$1,000)				
8.DATE OF SAV 1987/1				US\$1=3.7Yuan in 1987				
9.CONSULTANT(S) Taiyo Consultants Co., Ltd. Japan Engineering Consultants Co., Ltd.		Imp. Period: 1989. -1993.						
10.STUDY TEAM		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 7.55	FIRR1) 13.73	2.MAJOR REASONS FOR PRESENT STATUS The Government of China recognized that agricultural development is a key issue for economic development of China. Therefore, the Government decided to develop the granary of the Hubei Province with a top priority.	
No.of Members 12 Period Jul.1987-Jun.1988(12 months)				EIRR2) 27.94	FIRR2) 47.91	EIRR3)		FIRR3)
Total M/M 52.52		Conditions and Development Impacts:						
Japan 41.69		1. Shitaisi						
Field 10.83		2. Yintan(Qingquangou intake works expansion plan)						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		1) To increase the cropping area rate from 171% to 200% 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.						
		Development Impacts:						
		1) Creation of employment opportunities.						
		2) Improving living standards.						
		3) Contribution to acquire foreign currency with the increase of soy						
12.EXPENDITURE		5.TECHNICAL TRANSFER						
Total 177,676 (Y'000)		1) Joint works of Japan and China (China organized the survey team similar to the Japanese team)						
Contracted 154,282		2) Organizing seminars						
		3) OJT						
						3.PRINCIPAL SOURCE OF INFORMATION ①, ②, ③, ④		

PROJECT SUMMARY (F/S)

Compiled Mar.1990

Revised Mar.1996

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 (US\$1,000)		Total Cost	Local Cost		
		in early 1988 price		376,000	214,000	Foreign Cost 162,000	
3.SECTOR Social Infrastructure/Water Resource Development		3.CONTENTS OF MAJOR PROJECT(S)				(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 equipmat, 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. (FY1995 Domestic Survey) The ceremony of commencement of the construction works held on September, 1995. It is expected to complete on December, 1995. (FY1995 Overseas Survey) No particular change.	
4.REFERENCE NO.		1) Reservoir (size 2,785 sq.km, the total amount of water 2,168 million cu.m)					
5.TYPE OF STUDY		2) Dam (height 82m, length 1,040m, width 10m, volume 1.97 million cu.m)					
6.COUNTERPART AGENCY		3) Hydro-power plant (3 units of 6,500kw each)					
Bureau of Water Resources and Electric Power, Liaoning Province		4) Sub-dam (height 36.2m, length 194m, volume 88,000 cu.m)					
7.OBJECTIVES OF STUDY		8.DATE OF SAV					
Economic evaluation of Guanyinye Dam and technology transfer of the RCD method		1986/9					
9.CONCONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS		Imp. Period: 1989.6-1994.6			
Nippon Koei Co., Ltd. Dam Engineering Center		Feasibility: Yes		EIRR1) 13.10	FIRR1) 8.80		
				EIRR2)	FIRR2)		
				EIRR3)	FIRR3)		
10.STUDY TEAM		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. [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)					
No. of Members 16							
Period Apr.1987-Oct.1988 (18 months)							
Total M/M		Japan		Field			
84.97		46.79		38.18			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER					
None		1. RCD construction method developed by MOC Japan 2. F/S procedures 3. Japanese hydrological study method					
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION					
Total		①, ②, ④					
276,557 (¥'000)							
Contracted							
251,622							

PROJECT SUMMARY (F/S)

Compiled Mar.1990

Revised Mar.1996

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	Beijing Airport			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	2. PROJECT COST	1)	Total Cost	Local Cost			Foreign Cost				
		(US\$1,000)	2)	262,438	118,900	143,538						
		3)										
3. SECTOR	Transportation/Air Transportaion & Airport	3. CONTENTS OF MAJOR PROJECT(S)	-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 3,100 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.)									
4. REFERENCE NO.												
5. TYPE OF STUDY	F/S											
6. COUNTERPART AGENCY	Civil Aviation of China (Air China International after April 1991)											
7. OBJECTIVES OF STUDY	Development Plan for a passenger terminal of Beijing Airport											
8. DATE OF SAV	1987/9	Imp. Period:	1991.4-1994.12									
9. CONSULTANT(S)	Japan Airport Consultants, Inc.	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 24.40	FIRR1) 9.30							
				EIRR2)	FIRR2)							
				EIRR3)	FIRR3)							
10. STUDY TEAM	No. of Members 6 Period Mar.1988-Jan.1989 (11 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">39.50</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	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.				
Total M/M	Japan	Field										
39.50	24.00	15.50										
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey and boring	5. TECHNICAL TRANSFER	OJT on the methods of study and planning, especially passenger movement survey and analysis.									
12. EXPENDITURE												
	Total	99,947 (¥'000)										
	Contracted	93,153										
						2. MAJOR REASONS FOR PRESENT STATUS						
						Priority in project implementation is being discussed at the government.						
						3. PRINCIPAL SOURCE OF INFORMATION						
						①, ②, ③, ④, ⑥ - Control Section of Expansion Works, Dept. of Aviation, Beijing International Airport						

状況 (要約表添付文書)

ASO CHN/S 310/88	(F/S)
Name of Beijing Airport International Terminal Area Development Study	
Country	China
Type of Study	F/S
Sector	Transportation/Air Transportaion & Airport
Present Status: Processing	
(Description)	
<p>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.</p> <p>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:</p> <p>The accepted concept design will be bought out by the Government and the detailed design will be developed from this concept design.</p> <p>A group of Chinese design houses commenced the design development work in the middle of 1993.</p> <p>OECF signed L/A on Beijing Capital Airport Development Project (8,106 million yen) in Aug. 1993.</p> <p>(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.</p> <p>(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 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. , 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) the shape of the passenger terminal change into mountain-shaped, 4) rise of estimated total cost from 2.2 billion yuan to 6.05 billion.</p> <p>(FY1995 Domestic Survey) The basic design of this project has been drawn up and completed by the control Section of Expansion Works, Dept. of Aviation, Beijing International Airport by means of Japanese Yen Credit on August, 1995. The construction works will be carried out by certain domestic contractor selected as the successful bidder of the limited tender. Implementation is expected to be commenced on October, 1995.</p>	