

PROJECT SUMMARY (Basic Study)

CSA GTM/S 501/86

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS						
1.COUNTRY	Guatemala	1.SITE OR AREA	Guatemala City, surrounding Guatemala City valley and adjacent northeastern 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	Ground Water Development Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) Dec. 1990 E/N of OECF loan (4,711 million yen) Mar. 1991 OECF L/A Mission Dec. 1991 L/A not signed because of the delay in formal approval at the Parliament Jun. 1992 OECF L/A signed Dec. 1993 Construction scheduled to begin Oct. 1995 Construction scheduled to end OECF finance: 1) Construction of 38 deep wells and related facilities 2) Rehabilitation of 22 existing wells					
3.SECTOR	Social Infrastructures/Water Resource Development	(US\$1,000)	1) 38,688	12,495							
4.REFERENCE NO.		(US\$1=1Q)	2)								
5.TYPE OF STUDY	Basic Study	3.CONTENTS OF MAJOR PROJECT(S)									
6.COUNTERPART AGENCY	EMPAGUA (Empresa Municipal de Agua de la Ciudad de Guatemala)	- Deep well excavation 38wells - Water distribution facilities 34.2km - Distribution tank 1,260cu.m-2,835cu.m - Power distribution facilities 23,000m - Existing well rehabilitation - Work shop									
7.OBJECTIVES OF STUDY	To obtain water source for portable water supply for Guatemala City	4.CONDITIONS AND DEVELOPMENT IMPACTS									
8.DATE OF S/W	Dec.1984	- Direct benefit is the qualitative and quantitative improvement of EMPAGUA's service. - Indirect effects include (i)improved sanitation through clean water supply; (ii)reduced labor burden for women and children heretofore forced to carry water over long distances; and (iii) expanded employment opportunities through project related construction.									
9.CONSULTANT(S)	Chuo Kaihatsu International Corp.	10.STUDY TEAM									
		No.of Members 8 Period Jul.1985-Sep.1986(15 months)									
		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Total M/M</th> <th style="text-align: center;">Japan</th> <th style="text-align: center;">Field</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">50.11</td> <td style="text-align: center;">17.44</td> <td style="text-align: center;">32.67</td> </tr> </tbody> </table>			Total M/M		Japan	Field	50.11	17.44	32.67
Total M/M	Japan	Field									
50.11	17.44	32.67									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological survey and boring	5.technical transfer									
		1) Counterpart OJT on the analysis of aerophotos, etc. 2) Training in Japan in F/S methodology									
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION									
Total	311,081 (¥000)	①②④									
Contracted	241,154										

和名 グアテマラ市地下水開発計画

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

PROJECT SUMMARY (F/S)

CSA GTM/S 301/88

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT			
1.COUNTRY	Guatemala	1.SITE OR AREA		Santo Tomas on the Caribbean coast		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled		
2.NAME OF STUDY	Development Project of the Port of Santo Tomas de Castilla	2.PROJECT COST		Total Cost	Local Cost			Foreign Cost	
3.SECTOR	Transportation/Port			1) 97,031	30,343	66,683			
4.REFERENCE NO.				2)					
5.TYPE OF STUDY	F/S			3)					
6.COUNTERPART AGENCY	Port of Santo Tomas Authority	3.CONTENTENTS OF MAJOR PROJECT(S)		(Description) The Government of Guatemala (GOG) requested the OECF finance in 1988 and the OECF mission visited the country in the same year. Subsequent steps have not been taken by the GOG toward loan actualization. The President of EMPORNAC, Puerto Santo Tomas de Castilla, paid a visit to the Embassy of Japan in May 1991, and expressed his wish to have the port developed by OECF funding. The Latin American Economic Cooperation Mission of the Japanese Government visited Guatemala in June 1991, and the new President and the Minister of Finance expressed their intention to expand the port with Japanese financial assistance. (FY1991 Overseas Survey) The report of the study was utilized by the Planning Unit and the Engineering Dept. of EMPORNAC. The project is considered high priority, and will be revived in the future. (FY1992 Overseas Survey) Waiting for the answer.					
7.OBJECTIVES OF STUDY	Formulation of Stage III development plan	- Short Term Plan (Target year: 1995) 1) A container terminal - Length: 500 m (-11m) - Area: 25 ha - Handling equipment: 3 gantry cranes, 6 strand carriers, 1 forklift 2) A petroleum terminal - Length: 270 m (-11m) 3) Access Channel - depth: -11m - width: 80m - navigation aid system							
8.DATE OF S/W	Dec.1986	Imp. Period: 1992-1994							
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja Yachiyo Engineering Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS					Feasibility: Yes/No	EIRR1) 23.40 EIRR2) EIRR3)	FIRR1) 7.30 FIRR2) FIRR3)
10.STUDY TEAM	No.of Members 10 Period May.1987-Jul.1988(0 months)	Conditions and Development Impacts:							
	Total M/M	Japan	Field						
	47.85	24.33	23.52						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER							
12.EXPENDITURE		Participation of counterparts in the JICA training program		3.PRINCIPAL SOURCE OF INFORMATION					
	Total	158,211 (¥'000)		①②					
	Contracted	150,278							

和名 サント・トーマス港開発計画

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

PROJECT SUMMARY (F/S)

CSA GTM/A 301/88

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Guatemala	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Monjas Irrigation Project	Jalapa, Monjas (Area 7,100ha. population 14,130. 150km from the capital)					
3.SECTOR	Agriculture/General	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1) 46,850	18,464	28,386	(Description) In view of the high priority of the proposed project, the Government of Guatemala applied for Japanese Grant Aid in March 1989, but it was not successful. (FY1991 Overseas Survey) The ministry assigns high priority to the proposed project and plans to revive the request for Japanese Grant Aid in 1992. (FY1992 Overseas Survey) Waiting for the answer.	
5.TYPE OF STUDY	F/S	US\$1=2.5Q	2)				
6.COUNTERPART AGENCY	Ministerio de Agricultura, Ganaderia y Alimentacion	3)	3.CONTENTS OF MAJOR PROJECT(S)				
7.OBJECTIVES OF STUDY	Formulation of a water resource development and utilization plan to promote agricultural development in Monjas	Irrigation area: 4,800 ha Reservoir : Main dam: Height 49m Length 1,072m, capacity 2.63MCM Sub dam : Height 31m Head work : Water Intake 4.3cu.m/s Driving canal: 4.0 cu.m/s 9.5km Diversion canal: South 3.28cu. m/sec 8km North 2.23cu.m/sec 15.2km Main canal: 1.526 cu.m/sec 18km Latenal canal: 0.338 cu.m/sec 39km Regulating pond : 3 units * The cost is estimated in Oct. 1987 prices.					
8.DATE OF S/W	Feb.1987	Imp. Period: Apr.1989-Sep.1995					
9.CONSULTANT(S)	Pacific Consultants International Sanyu Consultants Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 18.50 EIRR2) EIRR3)	FIRR1) 6.20 FIRR2) FIRR3)	
10.STUDY TEAM	No.of Members 11 Period Jul.1987-Jul.1988 (13 months)	Conditions and Development Impacts: Conditions: Pasture land will be transformed to farms with irrigation facilities, and mostly vegetables will be grown. The cultivated area will be doubled to 11,250ha, and the increase in crop will be 234%. Development Impact: The visible benefit of this project is the increase in agricultural production: The annual profits will be 20,000,000Q when the planned output is realized. The following social economic effects may also be expected: Contribution to national development plan, acquisition of foreign currency, stable supply of food, increase in employment opportunities, improved living standards, improved distribution and processing of agricultural products, correcting regional differences, tourism and economic stimulus.				2.MAJOR REASONS FOR PRESENT STATUS	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Survey, geological survey, sample analysis, Installation of hydrography, testing of embankment material	5. TECHNICAL TRANSFER					
12.EXPENDITURE	Total 201,930 (¥'000) Contracted 179,719	1.Acceptance of trainees(2) 2.Instruction on geological soil and farm studies. Input of numerical data using computers.				3.PRINCIPAL SOURCE OF INFORMATION	
						①②	

和名 モンハスかんがい計画

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

PROJECT SUMMARY (F/S)

CSA GTM/S 302/89

Compiled Mar.1991
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	Guatemala	1.SITE OR AREA	La Aurora airport in Guatemala city and St.Elena airport in Peten city			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled						
2.NAME OF STUDY	Development Project of La Aurora and Santa Elena Airports	2.PROJECT COST (US\$1,000)		Total Cost	Local Cost			Foreign Cost					
			1)	60,261	37,124	23,137	(Description) A definite schedule of implementation is not yet decided due to political and financial reasons. However, in view of the urgent need of improving radar systems to ensure the safe operation of La Aurora Airport, the request for Japanese Grant Aid was forwarded through the Embassy in May, 1990. The Ministry of Transportation, Communication and Public Works divided the proposed short-term plan into two phases and made preparations to apply to the OECF finance for the Phase I improvement. The urgent need for improving the operation of La Aurora Airport was unfortunately substantiated by an airplane crash in May 1990. (FY1991 Overseas Survey) The DGAC restudied the proposed project and formulated a new project of reduced scale and cost, but has not yet decided on the schedule of its implementation due to political and economic reasons.						
			2)	18,815	6,688	12,127							
			3)										
3.SECTOR	Transportation/Air Transportation & Airport	3.CONTENTS OF MAJOR PROJECT(S)	(Emergency Programs) 1. Renovation of radar systems including installation of ASR/SSR equipment and renovation of CFR facilities at La Aurora. 2. Renovation of secondary power system at Santa Elena. (Short-term Development) 1. Improvement of runway, taxiway and apron. 2. Improvement of drainage and other infrastructures. 3. Improvement and expansion of terminal buildings. 4. Improvement of aviation support facilities, including visual aids. 5. Improvement of electrical power supply and other airport supporting facilities.										
4.REFERENCE NO.		Note: Cost 1) is for La Aurora Airport and Cost 2) for Santa Elena Airport.											
5.TYPE OF STUDY	F/S												
6.COUNTERPART AGENCY	Dirección General de Aeronáutica Civil (AGDC)												
7.OBJECTIVES OF STUDY	Improvement and expansion of La Aurora and Santa Elena airports												
8.DATE OF S/W	Aug.1988	Imp. Period:	.1991-.1993										
9.CONSULTANT(S)	Nihon Koei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 50.00 EIRR2) EIRR3)	FIRR1) 16.00 FIRR2) FIRR3)								
		Conditions and Development Impacts: 1.To improve safety and operational capacity by improvement of runway, taxiway and apron 2.To improve safety and operational efficiency by drainage and other infrastructures improvement 3.To provide better services and meet traffic demand by improvement of terminal buildings 4.To prevent a near-miss by the improvement of navigation aid facilities (especially radar) 5.To improve safety and operational efficiency by improvement of electric supply and other airport supporting facilities											
10.STUDY TEAM	No.of Members 8 Period Jan.1989-Feb.1990 (14 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">46.72</td> <td style="text-align: center;">27.65</td> <td style="text-align: center;">19.07</td> </tr> </table>	Total M/M	Japan	Field	46.72	27.65	19.07					2.MAJOR REASONS FOR PRESENT STATUS As described above.	
Total M/M	Japan	Field											
46.72	27.65	19.07											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY													
		5. TECHNICAL TRANSFER	OJT during field survey periods, and training of 2 counterpart engineers invited by JICA and JTCA				3.PRINCIPAL SOURCE OF INFORMATION ①②						
12.EXPENDITURE													
		Total	180,576 (¥'000)										
		Contracted	169,031										

和名 国際空港整備計画

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

PROJECT SUMMARY (M/P)

CSA GTM/S 101/91

Compiled Mar.1993
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Guatemala	1.SITE OR AREA	Guatemala Metropolitan Area 937 sq.km		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Comprehensive Urban Transportation System in Guatemala Metropolitan Area	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) The government of Guatemala is preparing to submit the terms of reference on the four priority projects in the Master Plan to the embassy of Japan in Guatemala.
3.SECTOR	Transportation/Urban Transportation	(US\$1,000)	1) 477,400		2)	
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)				
5.TYPE OF STUDY	M/P	Road Network Plan: Development of inner ring road, middle ring road, etc. Public Transport Plan: Introduction of bus exclusive lane on major roads, etc. Traffic Management Plan: Improvement of traffic signals on urban area.				
6.COUNTERPART AGENCY	Guatemala Municipality	4.CONDITIONS AND DEVELOPMENT IMPACTS				
7.OBJECTIVES OF STUDY	To formulate a Master Plan on the comprehensive urban transportation system in Guatemala Metropolitan Area.	Impacts: will mitigate the traffic congestion will ensure traffic safety and smooth traffic flow will increase travel speed will maintain good urban environment will keep economic transport energy				
8.DATE OF S/W	Nov.1989	10.STUDY TEAM				
9.CONSULTANT(S)	Yachiyo Engineering Co., Ltd. Central Consultant, Inc.	No. of Members 11 Period Jul.1990-Dec.1991 (17 months)				
		Total M/M	Japan	Field		
		73.00	6.00	67.00		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				
12.EXPENDITURE		On the job traing, counterpart training, and holding a seminar.			3.PRINCIPAL SOURCE OF INFORMATION	①
Total	390,260 (¥'000)					
Contracted	329,276					

和名 首都圏交通網整備計画

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

PROJECT SUMMARY (M/P+F/S)

CSA GTM/S 202A/91

Compiled Mar.1993
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS						
1.COUNTRY	Guatemala	1.SITE OR AREA	Guatemala City, Mixco City, Villa Nueva City, Chinautla City, Villa Canales City, Sta. Catarina Pinula City (350 sq.km)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued					
2.NAME OF STUDY	Solid Waste Management in Metropolitan Area of Guatemala City	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) (1) Establishment of a lamp-way arrangement of carrying in soil, treatment of disposal site which was completely filled up (into a park or a land covered with soil), housing of scavengers are in progress. while opening a new landfill disposal site is interrupted by a residential oppsition, it is projected to make endeavors to open the new disposal site utilizing the effective improvement of the EL Trebol disposal site. (2) Adjustment between two private collectors has been conducted. Discussions with DLPM is also still continued regarding concessions of collection service to private collectors. (3) The municipality established a central vehicle maintenance factory, merging DLPM's facilities for efficient equipments control and cost reduction. (FY1992 Overseas Survey) Waiting for the answer.					
3.SECTOR	Public Utilities/Urban Sanitation	(US\$1,000)	1) 33,663								
4.REFERENCE NO.		US\$1=Q5=26.25yen	2)								
5.TYPE OF STUDY	M/P+ (F/S)	3.CONTENTES OF MAJOR PROJECT(S)									
6.COUNTERPART AGENCY	Public Service Bureau (DSP) Municipal Public Cleaning Department (DLPM)	1) Expansion of collection service 2) Improvement of final disposal - Immediate improvement of the EL Trebol disposal site to convert it into a controlled landfill. - Construction of a new sanitary landfill 3) Institutional development - Concessions of collection service to private collectors - Preventive maintenance and repair program - Education and community participation programs - Personal training program - Recycling and resouce recovery program - Institutional organization of the DSP - Initiate metropolitan committee in charge of solid waste 4) Strengthening of finance									
7.OBJECTIVES OF STUDY	1)To Contribute the development of the systematic management of the solid waste in the Metropolitan area of Guatemala City with an object of improving and safe garding the public helth as well as protecting the environment.	4.CONDITIONS AND DEVELOPMENT IMPACTS									
8.DATE OF S/W	Nov.1989	Planning conditions: 1) Planning period: until the year 2000 2) Population: In 1990 1,530,000 and 2,047,000 in the year 2000. 3) Types of solid waste: Solid waste not including hazardous materials 4) Annual increase of real GDP: From 1990 to 1995 4%, from 1996 to 2000 3% 5) Maintain and promote the dual collection system of municipal and private collectors during the period until the year 2000. 6) Continue and promote the support of the community 7) It is indispensible to count on the support of the community.									
9.CONSULTANT(S)	CRC Research Institute, Inc. Environmental Technologic Consultants Co., Ltd.	Accrued Benefits: 1) Establishment of institutional and organizational support-systems 2) Improvement of collection service in non-served areas 3) Through the observation of the improvement of the EL Trebol final disposal site, consensus among residents to open a new additional sanitary landfill will mature. 4) Improvement of environmental and sanitary conditions in the metropolitan area.									
10.STUDY TEAM	No.of Members 12 Period Jun.1990-Sep.1991 (16 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">70.88</td> <td style="text-align: center;">24.40</td> <td style="text-align: center;">46.48</td> </tr> </table>	Total M/M	Japan	Field	70.88		24.40	46.48	5.TECHNICAL TRANSFER		
Total M/M	Japan	Field									
70.88	24.40	46.48									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	TELECTRO S.A. (measuring)	During the field survey, the counterpart was associated with sampling, analysis and measurement of waste with the study team. A seminar was also held in Japan in 1991.									
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">286,892 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">271,975</td> </tr> </table>	Total	286,892 (¥'000)	Contracted	271,975	3.PRINCIPAL SOURCE OF INFORMATION					
Total	286,892 (¥'000)										
Contracted	271,975										
					①						

和名 首都圏生活廃棄物処理計画

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

PROJECT SUMMARY (M/P+F/S)

CSA GTM/S 202B/91

Compiled Mar.1993
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT				
1.COUNTRY	Guatemala	1.SITE OR AREA	Guatemala City, Mixco City, Villa Nueva City, Chinautla City, Villa Canales City, Sta. Catarina Pinula City (350 sq.km)			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled			
2.NAME OF STUDY	Solid Waste Management in Metropolitan Area of Guatemala City	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) The equipments were donated through Japanese Grant aiming at urgent improvement of the EL Trebol and expansion of collection service to neighboring areas. Title of D/D: Solid Waste Management in Metropolitan Area of Guatemala City 1992.5.15 Signature on E/N Amount on E/N: 309,000,000 yen 1992.7.21 Public Announcement for Tender 1993.3.15 Completion of Shipment Grant Equipments: Bulldozer: 4 Wheel loader: 2 Soil dump truck: 4 Refuse dump truck: 10 (FY1992 Overseas Survey) Waiting for the answer				
3.SECTOR	Public Utilities/Urban Sanitation		7,910							
4.REFERENCE NO.		3.CONTENT(S) OF MAJOR PROJECT(S)	Among the proposed projects in the MP, the FS was undertaken on 3 projects regarding urgent implementation. 1) The improvement of collection in marginal areas(Implementation of experiments on container collection and equipments control): Zone concession to private collection, increase in the rate of vehicle operation, improvement of loading efficiency, improvement of collection service in the isolated areas. 2) Improvement of final disposal sites (Proposal of plan and design on improvement and establishment): the improvement of the EL Trebol landfill and the opening of a new sanitary landfill in Las Guacamayas. 3) The improvement of the institutional organization: Formation of a work group, organize the Metropolitan Solid Waste Committee, Development of the community education and participation program, personnel training, improvement of private collection, increase of the SWM's budget, obtaining of financing from international and bilateral technical cooperation and credit organization, implementation of a pilot test on sanitary education for residents.			2) MAJOR REASONS FOR PRESENT STATUS For the D/D has been completed or in progress.				
5.TYPE OF STUDY	(M/P)+F/S	4.FEASIBILITY AND ITS ASSUMPTIONS						Feasibility: EIRR1) 8.00 FIRR1) Yes/No EIRR2) 20.00 FIRR2) EIRR3) FIRR3)		
6.COUNTERPART AGENCY	Public Service Bureau (DSP), Municipal Public Cleaning Department (DLPM)	8.DATE OF S/W	.0		3.PRINCIPAL SOURCE OF INFORMATION Contacts with municipality of Guatemala, especially with DSP.					
7.OBJECTIVES OF STUDY	To determine the possibility of the implementation of some first priority projects which must be achieved by 1995 at the latest.	9.CONSULTANT(S)	Imp. Period: .1991-.1996 CRC Research Institute, Inc. Environmental Technologic Consultants Co., Ltd.							
10.STUDY TEAM	No.of Members 12 Period Jan.1991-Mar.1991 (0 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">70.88</td> <td style="text-align: center;">24.40</td> <td style="text-align: center;">46.48</td> </tr> </table>	Total M/M	Japan	Field	70.88	24.40	46.48	Conditions and Development Impacts: Planning Conditions: 1) Planning period: until the year 1996 2) Population: In 1990 1,532,000 and 1,841,000 in the year 1996 3) Types of solid waste: Solid waste not including hazardous materials 4) Annual increase of real GDP: From 1990 to 1995 4% 5) Maintain and promote the dual collection system of municipal and private collectors during the period until the year 1996 6) Continue and promote the support of the community 7) It is indispensable to count on the support of the community. Development Impacts: 1) Zone concessions to the private sector will increase collection efficiency and service level. 2) The institutional development and the improvement of collection service solve the collection problem from marginal areas. 3) The improvement of the EL Trebol landfill allows to improve the environmental conditions of the zone and the development of the Las Guacamayas landfill. 4) The improvement of transport efficiency and the decrease in the number of clandestine open-dumping sites. 5) Through promotion of community education, residents will participate in the Solid Waste management program. Through the implementation of these projects, solid waste collection service for		
Total M/M	Japan	Field								
70.88	24.40	46.48								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	TELECTRO S.A. (boring, measuring) ACEROS AGRICOLAS E INDUSTRIALES S.A. (construction of containers)	12.EXPENDITURE	Total 286,892 (¥'000) Contracted 271,975							
		5. TECHNICAL TRANSFER	During F/S period, the counterpart joined the sanitary education for residents through audio-visual aids, which worked very well.							

和名 首都圏生活廃棄物処理計画

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

PROJECT SUMMARY (F/S)

CSA HND/A 301/78

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Honduras	1.SITE OR AREA	CHOLUTECA plan, southern part of Honduras			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input checked="" type="checkbox"/> Processing
2.NAME OF STUDY	Agricultural Development in the Choluteca River Basin	2.PROJECT COST (US\$1,000)		Total Cost	Local Cost		
3.SECTOR	Agriculture/General		1)	88,020	31,580	56,440	
4.REFERENCE NO.			2)	63,910			
5.TYPE OF STUDY	F/S		3)				
6.COUNTERPART AGENCY	Ministry of Natural Resources	3.CONTENTS OF MAJOR PROJECT(S)	1.San Fernando Dam : concrete gravity dam, Height of dam 93.5m 2.Irrigation Area(net): 16,000 ha(new 14,370ha, existing pumping 1,630ha) 3.Irrigation Facilities : Intake weir 1 place Irrigation Canal 158km(Main 26.3km, Branch 46.5km) Drainage Canal 144km(Main 121.9km, Secondary 22.5km) Farm Road 122km 4.Power Station: Installed capacity 14MW Annual Power Generation 58.4GWh The project cost 1) is for the entire project and 2) for the 1st Stage(the dam and irrigation development of 12,400ha).				(Description) The feasibility study was updated by JICA in 1984. Detailed Design was completed by OECF E/S loan. (L/A Aug.1985) The Government of Honduras applied in Mar.1987 for an OECF loan to implement the project, but did not get the approval. (FY1991 Overseas Survey) Official and unofficial requests for an OECF loan have been made repeatedly but with no avail.
7.OBJECTIVES OF STUDY	F/S	4.FEASIBILITY AND ITS ASSUMPTIONS					
8.DATE OF S/W	Mar.1977	Imp. Period:	Jun.1978-Dec.1983				2.MAJOR REASONS FOR PRESENT STATUS Honduras is currently implementing its Structural Adjustment Program. OECF is rethinking the appropriateness of financing a project requiring large capital.
9.CONSULTANT(S)	Nihon Koei Co., Ltd.	10.STUDY TEAM	Conditions and Development Impacts: Conditions: Agricultural benefits are estimated as the difference of net income from crop production between with-project and without-project conditions. Electric power benefits are estimated by the cost of thermal power plants. Output of Major Crops Without Project With Project (1,000 tons) Sugarcane 800 800 Rice, Maize, Sorghum 3.8 33.2 Cotton 1.5 15.3 Melons and Vegetables 3.1 23.4 Total Net Value(US\$1000) 4,680 13,950 Development Impacts: Increased crop production, growth of agricultural exports, fishing in the reservoir, tourism development, rural electrification, flood control in the downstream, etc. *EIRR 1) above is for the entire project, and 2) for the 1st Stage.				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER					3.PRINCIPAL SOURCE OF INFORMATION ①②③
12.EXPENDITURE							
			Total	139,496 (¥'000)			
			Contracted	122,985			

和名 チョルテカ川流域農業開発計画

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

PROJECT SUMMARY (F/S)

CSA HND/S 301/79

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																												
1.COUNTRY	Honduras	1.SITE OR AREA		Valle de Talanga, 60km north of Capital City		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing																											
2.NAME OF STUDY	New Tegucigalpa Airport Development	2.PROJECT COST		Total Cost	Local Cost			Foreign Cost																										
3.SECTOR	Transportation/Air Transportation & Airport			(US\$1,000)	66,002	29,042																												
4.REFERENCE NO.				(US\$1=200Yen)																														
5.TYPE OF STUDY	F/S	3.CONTENTS OF MAJOR PROJECT(S)		<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Facilities to be developed</th> <th style="text-align: left;">Size/quantity</th> <th colspan="2"></th> </tr> <tr> <td>- Runway</td> <td>2,700m x 45m</td> <td></td> <td></td> </tr> <tr> <td>- Apron</td> <td>69,100sq.m</td> <td></td> <td></td> </tr> <tr> <td>- Passenger Terminal Bldg.</td> <td>12,000sq.m</td> <td></td> <td></td> </tr> <tr> <td>- Airport lighting and radio nav aids</td> <td>CAT-I total system</td> <td></td> <td></td> </tr> <tr> <td>- Utilities (power, telephones water supply/sewerage)</td> <td></td> <td>Total system</td> <td></td> </tr> <tr> <td>- Access road</td> <td>45km x 75m</td> <td></td> <td></td> </tr> </table>			Facilities to be developed	Size/quantity			- Runway	2,700m x 45m			- Apron	69,100sq.m			- Passenger Terminal Bldg.	12,000sq.m			- Airport lighting and radio nav aids	CAT-I total system			- Utilities (power, telephones water supply/sewerage)		Total system		- Access road	45km x 75m		
Facilities to be developed	Size/quantity																																	
- Runway	2,700m x 45m																																	
- Apron	69,100sq.m																																	
- Passenger Terminal Bldg.	12,000sq.m																																	
- Airport lighting and radio nav aids	CAT-I total system																																	
- Utilities (power, telephones water supply/sewerage)		Total system																																
- Access road	45km x 75m																																	
6.COUNTERPART AGENCY	Directorate General of Civil Works, Min. of Communications, Public Works & Transport	7.OBJECTIVES OF STUDY		(Description) The Government of Honduras applied for yen credit, but subsequently decided to withdraw the application. (FY 1991 Overseas Survey) The government still has a strong desire for the new airport, but no action has been taken.																														
To select suitable site for new airport to replace the existing airport seriously handicapped by aircraft operation problems		8.DATE OF S/W		Imp. Period: Jul.1981-Dec.1995																														
Oct.1977		9.CONCONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS																														
Japan Airport Consultants, Inc.		Feasibility: Yes		EIRR1) 13.80	FIRR1)																													
				EIRR2)	FIRR2)																													
				EIRR3)	FIRR3)																													
10.STUDY TEAM		Conditions and Development Impacts:		2.MAJOR REASONS FOR PRESENT STATUS																														
No.of Members 13		Conditions: 1) Ultimate Target Year 2005; 2) Two-phase construction with Phase I designed to accommodate 1995 traffic demand of 1.324 M passengers and 30,050 tons of cargo, and Phase II for 2.50 M passengers and 62,020 tons of cargo for year 2005; 3) To construct an airport at a new site because it is difficult to expand the existing airport.		After filing the application for Yen Credit, the president and the Minister of Transport involved with the Project were replaced, and the priority of the Project was lowered reflecting the political unrest of the neighboring countries.																														
Period Dec.1977-Jul.1979(20 months)		Expected Effects: 1) Increased capacity to service overflowing passenger traffic; 2) Increase in tourism income; 3) Increase in airport tariff revenue from foreign aircrafts; 4) Saving in aviation fuel; 5) Improved runway usability; 6) Improved aircraft operation safety; 7) Increase in employment opportunities.																																
Total M/M		5.TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION																														
Japan		Trainee invited to Japan : One official participated in JICA's Aerodrome Seminar.		①②																														
Field																																		
70.50																																		
48.83																																		
21.67																																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																																		
12.EXPENDITURE																																		
Total																																		
169,696 (¥'000)																																		
Contracted																																		
135,354																																		

和名 テグシガルバ新空港建設計画

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

PROJECT SUMMARY (Basic Study)

CSA HND/A 501/83

Compiled Mar.1990

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS						
1.COUNTRY	Honduras	1.SITE OR AREA	An area of 2,000 sq.km in Mosquitia District, Gracias A Dios Province		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued					
2.NAME OF STUDY	Inventario forestal del distrito forestal de La Mosquitia	2.PROJECT COST	Total Cost	Local Cost	(Description) The results of this study such as the aerial photographs, the topographic maps, forest type maps, etc. are used by the authorities concerned. In recent years the government of Germany implemented a technical cooperation project using this forest management plan. (1991 Overseas Survey) No additional information.						
3.SECTOR	Forestry/Forestry & Forest Conservation	(US\$1,000)	1)	2)							
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)	In order to utilize Caribbean pines in the subject area, a forest management plan was proposed containing following components: -Countermeasures against forest fires -Improvement of forest road network -To enlarge natural regeneration and re-afforestation -To increase the timber production								
5.TYPE OF STUDY	Basic Study	4.CONDITIONS AND DEVELOPMENT IMPACTS				In this area, there is not any road leading to any other areas, therefore the transportation is limited to sea transport. On the other hand, this area has been developed by the capitals from Nicaragua since 1950's and from Honduras since 1975. The implementation of this forest management plan would result in the forest protection and sustainable yield management so that local society and economy in this area would be improved in spite of the transport constraints.					
6.COUNTERPART AGENCY	Forest Development Corporation of the Republic of Honduras	5.technical transfer	- To accept trainees - To conduct on the job training on the forest inventory survey								
7.OBJECTIVES OF STUDY		6.MAJOR REASONS FOR PRESENT STATUS				①②					
8.DATE OF S/W	Sep.1980	10.STUDY TEAM	No.of Members 21 Period Dec.1980-Mar.1983 (28 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;">97.00</td> <td style="text-align: center;">46.00</td> <td style="text-align: center;">51.00</td> </tr> </table>						Total M/M	Japan	Field
Total M/M	Japan	Field									
97.00	46.00	51.00									
9.CONSULTANT(S)	Japan Forest Technical Association	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Aerial photography								
12.EXPENDITURE		12.EXPENDITURE				<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">296,353 (¥000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">264,673</td> </tr> </table>			Total	296,353 (¥000)	Contracted
Total	296,353 (¥000)										
Contracted	264,673										

和名 ラ・モスキチア地区林業資源調査

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

PROJECT SUMMARY (Basic Study)

CSA HND/A 502/83

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Honduras	1.SITE OR AREA	From Torujillo to Puerto Cortes, North sea-shore of Honduras		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Fisheries Resources Survey	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) (FY 1991 Overseas Survey) The findings of the study have been utilized by the FAO-assisted study of coastal fisheries and other studies of marine biology and coastal fishermen. The Ministry of Natural Resources is requesting Japanese assistance for similar studies in other areas.
3.SECTOR	Fisheries/Fisheries	(US\$1,000)	1)	2)		
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)				
5.TYPE OF STUDY	Basic Study	- Fishing port is necessary between Tela and La Ceiba.				
6.COUNTERPART AGENCY	Bureau of Rehabilitation, Ministry of Natural Resources; Fishery Section, Economic Planning Agency	- It is necessary to improve the distribution system.				
7.OBJECTIVES OF STUDY		- Under the proper condition of distribution, fishing base, etc., bottom gillnet, shark long line, trawl fishing are useful for marine resource development.				
8.DATE OF S/W	Sep.1980	4.CONDITIONS AND DEVELOPMENT IMPACTS				
9.CONSULTANT(S)		The amount of fish consumption is extremely small, therefore it is important to expand the demand of marine products.				
10.STUDY TEAM		2.MAJOR REASONS FOR PRESENT STATUS				
No.of Members						
Period	Jun.1981-Mar.1983 (20 months)					
Total M/M	Japan	Field				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		3.PRINCIPAL SOURCE OF INFORMATION				
12.EXPENDITURE		5.TECHNICAL TRANSFER				
Total	166,926 (¥'000)				①②	
Contracted						

和名 水産資源調査

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

PROJECT SUMMARY (F/S)

CSA HND/A 302/84

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																			
1. COUNTRY	Honduras	1. SITE OR AREA	CHOLUTECA plain, southern part of Honduras (Investigated Area 36,000ha, population 22,600person)			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled																																		
2. NAME OF STUDY	Choluteca River Basin Agricultural Development Project (Updating Study)	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) Detailed Design was completed by the OECF E/S loan. L/A : August 2nd, 1985, 1.651 billion yen Period : Dec. 1985 - May 1988 Consultant : Nippon Koei Co., Ltd. (FY1991 Overseas Survey) Official and unofficial requests for an OECF loan have been made repeatedly but to no avail.																																			
3. SECTOR	Agriculture/General	(US\$1,000)	1) 188,419	53,674	134,744																																				
4. REFERENCE NO.		US\$1=2Lempiras	2) 184,810	53,031	131,779	(FY1991 Overseas Survey) Official and unofficial requests for an OECF loan have been made repeatedly but to no avail.																																			
5. TYPE OF STUDY	F/S	3)																																							
6. COUNTERPART AGENCY	Ministry of Natural Resources	3. CONTENTS OF MAJOR PROJECT(S)	1. San Fernando Dam: Concrete gravity, dam height 100m, crest length 320m 2. Irrigation Area: 20,600ha (Western Area 16,000ha, East-A Area 4,600ha) 3. Irrigation Facilities 1 intake weir (concrete type, weir height 4.8m, crest length 140m) Main canals 30.6km (Western Area 23.6km, East-A Area 7.0km) Branch canals 75.5km (Western Area 45.2km, East-A Area 30.3km) Secondary canals 33.6km (Western Area only) Main Drainage canals 113.0km (W. Area 90.5km, E.-A Area 22.5km) Secondary drainage canals 27.0km (Western Area only) 4. Power Plant: Installed Cap. 18.2MW, Annual Output 53.6GWh *The project cost 1) above is for the entire project, and 2) for the 1st Stage (Dam & Power plant and irrigation dev. of Western Area) *The implementation period below pertains to the 1st stage of the project.																																						
7. OBJECTIVES OF STUDY	Update of feasibility study made in 1977 in Choluteca Area	8. DATE OF S/W	Jun. 1984		Imp. Period: Mar. 1985-Apr. 1991		2. MAJOR REASONS FOR PRESENT STATUS Honduras is currently implementing its Structural Adjustment Program. OECF is rethinking the appropriateness of financing a project requiring large capital.																																		
9. CONSULTANT(S)	Nihon Koei Co., Ltd.	9. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 14.20 EIRR2) 13.70 EIRR3)	FIRR1) 13.10 FIRR2) 11.70 FIRR3)	3. PRINCIPAL SOURCE OF INFORMATION ①②④																																			
10. STUDY TEAM	No. of Members 15 Period Aug. 1984-Mar. 1985 (8 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">14.80</td> <td style="text-align: center;">8.60</td> <td style="text-align: center;">6.20</td> </tr> </table>	Total M/M	Japan	Field	14.80			8.60	6.20	4. FEASIBILITY AND ITS ASSUMPTIONS Conditions and Development Impacts: Conditions: Agricultural benefits are estimated as the difference of net income between the with-projection and the without projection condition. The benefit of power generation is estimated for the average generating capacity in dry season, by the value of thermal power of 0.1311Lem/KWh. With-project Outputs of Major Crops: <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">1st Stage</td> <td style="text-align: center;">2nd Stage</td> <td style="text-align: center;">Total (1000t)</td> </tr> <tr> <td>Sugarcane</td> <td style="text-align: center;">856</td> <td style="text-align: center;">-</td> <td style="text-align: center;">856</td> </tr> <tr> <td>Cotton</td> <td style="text-align: center;">16.9</td> <td style="text-align: center;">8.0</td> <td style="text-align: center;">24.9</td> </tr> <tr> <td>Paddy</td> <td style="text-align: center;">20.2</td> <td style="text-align: center;">11.5</td> <td style="text-align: center;">31.7</td> </tr> <tr> <td>Maize</td> <td style="text-align: center;">9.0</td> <td style="text-align: center;">10.4</td> <td style="text-align: center;">19.4</td> </tr> <tr> <td>Melons/Vegetables</td> <td style="text-align: center;">66.4</td> <td style="text-align: center;">-</td> <td style="text-align: center;">66.4</td> </tr> <tr> <td>Total Net Income (1000 Lempiras):</td> <td style="text-align: center;">38,191</td> <td style="text-align: center;">11,327</td> <td style="text-align: center;">49,518</td> </tr> </table> Development Impacts: Increased and diversified crop outputs, increased agricultural exports, rural electrification, downstream flood control, employment creation (e.g. 2.7 million from agricultural dev.), etc.					1st Stage	2nd Stage	Total (1000t)	Sugarcane	856	-	856	Cotton	16.9	8.0	24.9	Paddy	20.2	11.5	31.7	Maize	9.0	10.4	19.4	Melons/Vegetables	66.4	-	66.4	Total Net Income (1000 Lempiras):	38,191	11,327	49,518
Total M/M	Japan	Field																																							
14.80	8.60	6.20																																							
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Total Net Income (1000 Lempiras):	38,191	11,327	49,518																																						
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY																																									
12. EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">51,164 (Y'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">44,855</td> </tr> </table>	Total	51,164 (Y'000)	Contracted	44,855																																				
Total	51,164 (Y'000)																																								
Contracted	44,855																																								

和名 チョルテカ川流域農業開発計画補完調査

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

PROJECT SUMMARY (F/S)

CSA HND/A 303/85

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Honduras	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Aguan Valley Agricultural Development Project (Saba-Olanchito Area)	Yoco, Aguan Central Valley(Saba-Oranchito) 188,000 people, 200km from capital, 23,000ha					
3.SECTOR	Agriculture/General	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1)	64,425	22,733	41,692	
5.TYPE OF STUDY	F/S	US\$1=2Lps. in 1984		2)			
6.COUNTERPART AGENCY	National Agrarian Institute			3)			
7.OBJECTIVES OF STUDY	The objective of the Feasibility Study is to evaluate the technical and economic feasibility of the development plans which include: introduction of new irrigation, drainage and road systems, improvement and consolidation of	3.CONTENTS OF MAJOR PROJECT(S)				(Description) After the completion of F/S, the economic situation of the country worsened, foreign debts accumulated. The other project (Choluteca River Basin Agricultural Development) was suspended after the D/D, and there has been no progress regarding this project. (FY 1991 Overseas Survey) No additional information.	
8.DATE OF S/W	Nov.1983	Irrigation area : 9,100ha					
9.CONSULTANT(S)	Pacific Consultants International	Headworks : 4					
10.STUDY TEAM	No. of Members 19 Period Feb.1984-Jun.1985 (17 months)	Syphon : 2					
	Total M/M Japan Field	Pumping Station : 3					
	76.30 21.48 54.82	Arterial drainage : 73,650 m					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological Survey	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility:	EIRR1) 13.00	FIRR1)	
12.EXPENDITURE	Total 271,812 (¥'000)			Yes	EIRR2)	FIRR2)	
	Contracted 241,257				EIRR3)	FIRR3)	
		5. TECHNICAL TRANSFER				2.MAJOR REASONS FOR PRESENT STATUS	
		1. Acceptance of trainees 2. Provision of machinery (borinq machine) and instruction on its use. 3. Cooperation in field studies and reports				Considering the present economic condition of the country, it will be economically difficult to implement large projects (such as the Elcahon power station project and the Choluteca project) in succession. There are other high priority projects like road construction and it will take time to implement this project.	
						3.PRINCIPAL SOURCE OF INFORMATION	
						①②	

和名 アグアン川流域農業開発計画

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

PROJECT SUMMARY (M/P)

CSA HND/S 101/89

Compiled Mar.1991
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Honduras	1.SITE OR AREA	Comayagua Basin (Municipality Comayagua & La Paz)			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Groundwater Development Project in Comayagua	2.PROJECT COST	(US\$1,000)	Total Cost	Local Cost	Foreign Cost	(Description) The Government of Honduras requested Japanese grant aid in Nov.1989, and the basic design study was conducted in Mar.1990. (FY1991 Overseas Survey) Phase I: 1,108 million yen Well-excavation (53 units) Placement of water supply system June 1990: E/N 1990: D/D Dec. 1990: Contracts with the constructors Mar. 1993: Scheduled to be completed Phase II: 394 million yen Well-excavation (36 units) Placement of water supply system July 1991: E/N Nov. 1991: contracts with the constructors Nov. 1994: Scheduled to be completed						
3.SECTOR	Social Infrastructures/Water Resource Development			1) 14,939	4,359	10,580							
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)	2) 12,047	4,506	7,541	2.MAJOR REASONS FOR PRESENT STATUS							
5.TYPE OF STUDY	M/P	The Final Report recommended that the project should be implemented in stages, and by the end of the second stages, of which the target year is 1996, 60 units of the type 1 and 22 units of the type 3 should be constructed as the rural water supply system.											
6.COUNTERPART AGENCY	Ministry of Public Health	4.CONDITIONS AND DEVELOPMENT IMPACTS	The project has a character of "Basic Human Needs" and is feasible economically, and it is expected that the project would make a significant contribution to socio-economic development and the improvement of health and sanitary conditions in the study area.				3.PRINCIPAL SOURCE OF INFORMATION ①②						
7.OBJECTIVES OF STUDY	Groundwater Potential Evaluation & Master Plan of Rural Water Supply												
8.DATE OF S/W	Nov.1987	5.technical transfer	J/T for counterparts during the site study (1988-89) about routine site study, management of well-boring and analytical works.										
9.CONSULTANT(S)	Nihon Koei Co., Ltd.												
10.STUDY TEAM	No.of Members 8 Period Feb.1988-Oct.1989(21 months)												
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">44.76</td> <td style="text-align: center;">17.59</td> <td style="text-align: center;">27.17</td> </tr> </table>	Total M/M	Japan	Field	44.76	17.59	27.17						
Total M/M	Japan	Field											
44.76	17.59	27.17											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Test Well Drilling & Pump test												
12.EXPENDITURE	Total 206,708 (¥'000)												
	Contracted												

和名 コマヤグア県地下水開発計画

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

PROJECT SUMMARY (F/S)

CSA HND/A 304/90

Compiled Mar.1992
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Honduras	1.SITE OR AREA		Flores Irrigation District and its adjacent area of about 3600 ha		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Rehabilitation of Coyolar Dam and Irrigation Improvement Project in Comayagua Valley	2.PROJECT COST (US\$1,000)		Total Cost	Local Cost		
3.SECTOR	Agriculture/Irrigation, Drainage & Reclamation			1) 51,617	29,878	21,739	
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)				(Description) The Government of Honduras strongly requested Japanese Grant Aid for rehabilitation of Coyolar Dam. The possibility of implementation of the Project is being studied in the Ministry of Foreign Affairs in Japan. (FY1992 Overseas Survey) Waiting for the answer.	
5.TYPE OF STUDY	F/S						
6.COUNTERPART AGENCY	Ministry of Natural Resources, General Directorate of Water Resources						
7.OBJECTIVES OF STUDY	Establishment of Coyolar Dam Rehabilitation Plan and Improvement Plan of Flores Irrigation System						
8.DATE OF S/W	Apr.1989	Imp. Period:		.1991-.1998			
9.CONSULTANT(S)	Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 15.71 EIRR2) EIRR3)	FIRR1) 15.00 FIRR2) FIRR3)	
10.STUDY TEAM	No. of Members 9 Period Dec.1989-Mar.1990 (15.5 months)	Conditions and Development Impacts:				2.MAJOR REASONS FOR PRESENT STATUS Ministry of Foreign Affairs is under consideration, because this project is too big to be a grant aid financed project.	
	Total M/M Japan Field 50.22 21.30 28.92	Conditions: - The storage capacity recovers from 9 million cubic-meters to 12.6 million cubic-meters. - Irrigation efficiency is improved by the reform of irrigation facilities on the flowless area. - A part of pasture land 790ha is changed over to cultivated land. - Irrigation areas are to increase from 830ha to 1,260 ha. Development Impacts: - Increase of agricultural production - Increase of agricultural productivity - Increase in exports of Agricultural Products - Evasion from assumed collapse of the Dam Benefit of increased agricultural products and possible damages from the accidental collapse of the Dam as potential benefit are considered to estimate C/B.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Boring/Cross and Level Survey of Canal/Echo Sounding of Reservoir/Others	5. TECHNICAL TRANSFER		JICA Counterpart Training		3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE	Total 209,325 (¥'000) Contracted 35,420					①②	

和名 コヨラルダム灌漑復旧計画

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

PROJECT SUMMARY (F/S)

CSA JAM/A 301/85

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Jamaica	1.SITE OR AREA		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> </tr> <tr> <td>2.PROJECT COST (US\$1,000)</td> <td>1) 54,300</td> <td>17,800</td> <td>36,500</td> </tr> <tr> <td></td> <td>2) 11,700</td> <td>900</td> <td>10,800</td> </tr> <tr> <td></td> <td>3) 5,600</td> <td>5,600</td> <td></td> </tr> </table>			Total Cost	Local Cost	Foreign Cost	2.PROJECT COST (US\$1,000)	1) 54,300	17,800	36,500		2) 11,700	900	10,800		3) 5,600	5,600		1.PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing	
	Total Cost	Local Cost	Foreign Cost																				
2.PROJECT COST (US\$1,000)	1) 54,300	17,800	36,500																				
	2) 11,700	900	10,800																				
	3) 5,600	5,600																					
2.NAME OF STUDY Agricultural Development Project on the Black River Lower Morass		Black River Lower Morass Area (situated in the western part of Jamaica near the southern coast in the Parish of St.Elizabeth)																					
3.SECTOR Agriculture/General		3.CONTENTES OF MAJOR PROJECT(S) I. Major Investment for the Project a. Irrigation Area : 3,080 ha B. Major Facilities: (1) Diversion Weir: 1 place, (2) Irrigation Pump St.: 1 place with 4 units of 120KW 700mm diameter, (3) Drainage Pump St. : 4 places with 15 units of 100-125HP 800mm diameter, (4) Irrigation Canal: main 35.2km & secondary 31.6km, (5) Drainage Canal: main 41.3 km, secondary 154.0km & catch drain 17.0km, (6) Farm Road: main 35.2km & secondary 83.4km, (7) Flood Protection Dike: 29.0km, (8) Others: Office & Quarters, Ground water level observation wells & Environment conservation. II. Post Harvest Facility: 5 drying & storage stations and 1 rice mill III. Social Infrastructure: Upgrading/construction of Housing, Schools, Health center Road, Water supply and Community center Implementation period will be 6 years which consists of Phase-I of 3 years including detailed design and Phase-II of 3 years.																					
4.REFERENCE NO.		5.TYPE OF STUDY		(Description) It was subject to establish a holding company who would be responsible for construction of civil engineering works, development and operation of the pilot farm, land lease and management as well as recruitment, training, selection and settlement of farmers. However, due to some reasons such as rather expensive cost per unit area, etc., some agency (National Investment Bank) refused to establish the holding company, as of November, 1985. Proposed membership of the Board of Directors to be appointed by the Government was, Permanent Secretary of the Ministry of Agriculture or his nominee, Commissioner of Land, a representative from the Ministry of Finance, a representative from the Jamaica National Investment Bank, a representative from the National Water Commission, and two other nominees. (FY1992 Overseas Survey) Waiting for the answer.																			
5.TYPE OF STUDY		F/S																					
6.COUNTERPART AGENCY		Ministry of Agriculture, Department of Planning and Policy																					
7.OBJECTIVES OF STUDY		F/S - to formulate the project and verify its technical and economic feasibility																					
8.DATE OF S/W		Dec.1983																					
9.CONSULTANT(S)		Imp. Period:		2.MAJOR REASONS FOR PRESENT STATUS																			
Nihon Koel Co., Ltd. Taiyo Consultants Co., Ltd.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">4.FEASIBILITY AND ITS ASSUMPTIONS</td> <td style="width: 15%;">Feasibility: Yes</td> <td style="width: 15%;">EIRR1) 13.30</td> <td style="width: 15%;">FIRR1)</td> </tr> <tr> <td></td> <td></td> <td>EIRR2) 14.10</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td></td> <td>EIRR3) 15.60</td> <td>FIRR3)</td> </tr> </table>				4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 13.30	FIRR1)			EIRR2) 14.10	FIRR2)			EIRR3) 15.60	FIRR3)						
4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 13.30	FIRR1)																				
		EIRR2) 14.10	FIRR2)																				
		EIRR3) 15.60	FIRR3)																				
10.STUDY TEAM		Conditions and Development Impacts:		3.PRINCIPAL SOURCE OF INFORMATION																			
No.of Members 10 Period Feb.1984-Jun.1985 (17 months)		Conditions: 1. Agricultural benefit was estimated as the net incremental benefit derived from difference of net crop production between with project and without project conditions. 2. Project area consists of mineral soil area (780ha) and peat soil area (2300ha) where different agricultural development plan is adopted. 3. Net annual profit will be expected from twice of paddy in a year on both mineral and peat soil areas and soya bean on mineral soil area in case of with project condition, while it would be born from sugar cane (310ha), rain-fed paddy (100ha) and upland crops 960ha) in mineral soil area only, in case of without project condition. 4. The Project cost for economic evaluation does not include costs for procurement and installation of post harvest facility (2 of above), and construction or upgrading of socail infrastructure (3 of above). 5. EIRR of small (1480ha in case 3) and medium (2280ha in case 2) scale development plans would be slightly higher than them of whole scale development plan (case 1). However, the Net Present Value, production of paddy and foreign exchange saving of case 1 are substantially larger than those of smaller scale development plans, and secondary benefit from adjacent project area would be expected in case 1 which was recommended.																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Japan</td> <td style="width: 15%; text-align: center;">Field</td> </tr> <tr> <td>Total M/M</td> <td>11.14</td> <td>9.59</td> </tr> <tr> <td></td> <td>1.55</td> <td></td> </tr> </table>			Japan			Field	Total M/M	11.14	9.59		1.55		5.TECHNICAL TRANSFER										
	Japan	Field																					
Total M/M	11.14	9.59																					
	1.55																						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		To undertake on-the-job training and transfer the technology to the Jamaican counterpart personnel in the course of the study.		①																			
12.EXPENDITURE		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">239,697 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>217,840</td> </tr> </table>				Total	239,697 (¥'000)	Contracted	217,840														
Total	239,697 (¥'000)																						
Contracted	217,840																						

和名 ブラックリバーローアモラス農業開発計画

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

PROJECT SUMMARY (F/S)

CSA JAM/A 302/87

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Jamaica	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input checked="" type="checkbox"/> Processing	
2.NAME OF STUDY	Modernization and Expansion of the Rio Cobre Irrigation scheme	22km far from Kingstone in the west (the surveyed area: 274 sq.km, population 130,000)						
3.SECTOR	Agriculture/General	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost		
4.REFERENCE NO.		(US\$1,000)	1) 64,290	30,190	34,100	(Description) Progress This project is given a high priority in the "Food and Agriculture Policies/Production Five-Year-Plan(1983/84-1987/88)" of the government. Based on the F/S report, the project has been carried out partly sparing local funds and partly with financial support of the USAID. However, those funds are quite limited and cover only the small portion of the project. (FY1992 Overseas Survey) Waiting for the answer.		
5.TYPE OF STUDY	F/S	US\$1=5.5J\$ in 1986	2)					
6.COUNTERPART AGENCY	Ministry of Agriculture	3)	3.CONTENTS OF MAJOR PROJECT(S)					
7.OBJECTIVES OF STUDY		The project area is situated in the eastern part of Jamaica near the southern coast in the parish of St. Catherine. Rio Cobre Irrigation System: 12,990ha(completed in 1874) St. Dorothy Irrigation System: 2,340ha(completed in 1963) The main concepts of the project are: - to modernize and expand the present irrigation system by reconstructing and improving existing infrastructures. - to introduce diversified cropping patterns including non-traditional crops into the annual rotation of cropping. - to increase and stabilize yields and production of crops by means of sound management of irrigation and drainage. - to achieve successful small scale farmer enhancement through appropriate training and agricultural support services. - to promote the leveling up of living standards and more equitable distribution of income to the people. The main civil works are: 1)rehabilitation of headworks, 2)rehabilitation of canals, 3)reservoirs 4)land consolidation, 5)road construction.						
8.DATE OF S/W	Dec.1985	Imp. Period: .1988-.1991						
9.CONSULTANT(S)	Taiyo Consultants Co., Ltd. Nihon Koel Co., Ltd. Kokusai Kougyo Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 24.00 EIRR2) EIRR3)		FIRR1) 15.80 FIRR2) FIRR3)	
10.STUDY TEAM	No.of Members 13 Period Jan.1986-Jun.1987(18 months)	Conditions and Development Impacts: The project implementation: 1) The construction schedule is drawn up in such a way as to make capital investment productive as soon as possible. 2) The major civil works and on-farm development works are rationally integrated in due to consideration of the agricultural development programme particularly paddy land development. 3) Rehabilitation and improvement works for the head works and main canal will be carried out without cutting off the existing water supply to the downstream irrigated area and municipal water supply to Spanish Town. 4) The time required for construction of the project would be about 4 years including detailed design and contract award. Development impacts: 1)Foreign exchange saving: approximately US\$17.5 million per annual of foreign exchange will be saved by substituting for imported commodities; 2)Demonstration effects: Farmers in other areas become familiar with modern irrigation and drainage practices; 3)Increased employment opportunities: It is expected that the present unemployment in and around the project area will be reduced by implementation of the project; 4)Secondary benefit: The socio infrastructure and local transportation system will be improved.						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological survey Analysis of samples	5.technical transfer					2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE	Total 276,497 (¥'000) Contracted 251,952	(1) Acceptance of one trainee on in-service training in Japan. (2) OJT					3.PRINCIPAL SOURCE OF INFORMATION	
							①	

和名 リオ・コブレ農業開発計画

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

PROJECT SUMMARY (Other)

CSA MEX/S 601/77

Compiled Mar.1986

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS																					
1.COUNTRY	Mexico	1.SITE OR AREA	Suburban railways of Mexico City; 5 lines with total extension of 77km			1.PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input checked="" type="checkbox"/> Discontinued																			
2.NAME OF STUDY	Mexico City Suburban Railways Construction Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description)																				
3.SECTOR	Transportation/Railway	(US\$1,000)																								
4.REFERENCE NO.		(US\$1=23pesos)	1)	2)		This study was to review, from the technical and economic standpoints, the basic plan for new suburban railway lines which was being prepared by the Mexican Government as part of the overall urban transport improvement policy for Mexico City, and to undertake a pre-feasibility study of the construction plan. Based on the results of this study, Mexican Government came to the conclusion that the estimated costs of construction would be too large for the already financially-strapped National Railways to bear, and decided on the alternative of subway construction which was being promoted by the Federal District Government. In other words, the proposals of this study were not adopted for implementation, but served as one of the bases for the important policy decision by the Mexican Government. (FY 1991 Overseas Survey) No Additional Information.																				
5.TYPE OF STUDY	Other	3.CONTENTS OF MAJOR PROJECT(S)																								
6.COUNTERPART AGENCY	Secretaria de Comunicaciones y Transportes	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Alternatives:</td> <td style="text-align: center;">A</td> <td style="text-align: center;">B</td> </tr> <tr> <td>Civil engineering Works (stations)</td> <td style="text-align: right;">9,022</td> <td style="text-align: right;">7,821</td> </tr> <tr> <td>Electric engineering Works (power transmission)</td> <td style="text-align: right;">2,221</td> <td style="text-align: right;">1,395</td> </tr> <tr> <td>Signal and telecommunication equipment (including interference countermeasures)</td> <td style="text-align: right;">1,731</td> <td style="text-align: right;">1,416</td> </tr> <tr> <td>Rolling stock (318 - 369 cars)</td> <td style="text-align: right;">6,107</td> <td style="text-align: right;">4,952</td> </tr> <tr> <td>Rolling Stock bases</td> <td style="text-align: right;">1,327</td> <td style="text-align: right;">1,296</td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center;">(in million pesos)</td> </tr> </table>			Alternatives:	A	B	Civil engineering Works (stations)	9,022	7,821	Electric engineering Works (power transmission)	2,221	1,395	Signal and telecommunication equipment (including interference countermeasures)	1,731	1,416	Rolling stock (318 - 369 cars)	6,107	4,952	Rolling Stock bases	1,327	1,296		(in million pesos)		
Alternatives:	A	B																								
Civil engineering Works (stations)	9,022	7,821																								
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Rolling stock (318 - 369 cars)	6,107	4,952																								
Rolling Stock bases	1,327	1,296																								
	(in million pesos)																									
7.OBJECTIVES OF STUDY	Review of the Mexican Government's basic plan for new railway lines, and technical advice on construction works	Note: The costs of Alternative A correspond to the figures for 1) and Alternative B for 2) above.																								
8.DATE OF S/W	Aug.1977	4.CONDITIONS AND DEVELOPMENT IMPACTS																								
9.CONSULTANT(S)	Japan Railway Technical Service	It is assumed that the construction cost for grade separation be paid by the government fund, and moreover, that the cost be excluded from the construction costs to be covered by fare revenues. Railways will contribute to the amelioration of air pollution caused by the exhaust from motorized traffic in the metropolitan area.																								
10.STUDY TEAM	No.of Members 12 Period Sep.1977-Mar.1978 (7 months)				2.MAJOR REASONS FOR PRESENT STATUS																					
	<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;">20.70</td> <td style="text-align: center;">10.70</td> <td style="text-align: center;">10.00</td> </tr> </table>	Total M/M	Japan	Field	20.70	10.70	10.00				Because of the huge construction costs necessary for new suburban railway lines, the Mexican Government chose the alternative of subways.															
Total M/M	Japan	Field																								
20.70	10.70	10.00																								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	5.technical transfer			3.PRINCIPAL SOURCE OF INFORMATION																					
12.EXPENDITURE		Some counterparts participated in the JICA training program.			①②																					
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">50,856 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">38,688</td> </tr> </table>	Total	50,856 (¥'000)	Contracted	38,688																					
Total	50,856 (¥'000)																									
Contracted	38,688																									

和名 メキシコ市内通勤鉄道建設計画

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

PROJECT SUMMARY (Other)

CSA MEX/S 602/79

Compiled Mar.1990

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1. COUNTRY	Mexico	1. SITE OR AREA	Suburbs of Mexico City			1. PRESENT STATUS	<input checked="checked" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Suburban Railways Project (follow-up)	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description)	
3. SECTOR	Transportation/Railway	(US\$1,000)	1)	2)	1) Section between Mexico City and Queretaro (244km) 1981 Construction works started. 1982 - 86 Due to the decline of oil prices, construction works were virtually suspended. (FY1991 Overseas Survey) Feb. 1992 About 80% of the construction works completed. 1993 Scheduled to be operated on commercial basis. 2) Section between Mexico City and Irapuato (95km) Suspended until the section between Mexico City and Queretaro begin operation.		
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)			As part of the railway modernization policy, the Mexican Government is planning the electrification of the entire railway system. The Government requested Japanese technical cooperation concerning feasibility studies on two of the high priority sections selected for electrification: Namely, the section between Mexico City and Queretaro (244km) and the section between Mexico City and Irapuato (95km). In response to the request, the Japanese Government sent a team of experts to assist the undertaking of the feasibility studies.		
5. TYPE OF STUDY	Other	4. CONDITIONS AND DEVELOPMENT IMPACTS					
6. COUNTERPART AGENCY	Secretaria de Comunicaciones y Transportes						
7. OBJECTIVES OF STUDY	Technical advice and guidance on the physical planning and the operation and management for the trunk line electrification plan of the Mexican National Railway						
8. DATE OF S/W	.0						
9. CONSULTANT(S)	Japan Railway Technical Service						
10. STUDY TEAM	No. of Members 4 Period Jun. 1979-Aug. 1979 (2 months)						
Total M/M Japan Field							
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None						
12. EXPENDITURE	Total 7,326 (¥'000)						
	Contracted						
5. TECHNICAL TRANSFER			2. MAJOR REASONS FOR PRESENT STATUS				
			Financial problems.				
			3. PRINCIPAL SOURCE OF INFORMATION				
			①②				

和名 近郊鉄道計画 (アフターケア)

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

PROJECT SUMMARY (Other)

CSA MEX/S 603/81

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Mexico	1.SITE OR AREA	Section between Mexican city and Irapuato(351.2km)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Proyecto de electrificacion de la linea de Mexico a Irapuato	2.PROJECT COST	Total Cost	Local Cost	(Description) The recommendations of this study were used by the Mexican Government for preparing tender documents and evaluating the bids. The progress of construction works is as follows: 1) Section between Mexico City and Queretaro (244km) 1981 Construction works started. 1982 - 86 Due to the decline of oil prices, construction works were virtually suspended. (FY1991 Overseas Survey) Feb.1992 About 80% of the construction works is completed. 1993 Scheduled to be operated on commercial base. 2) Section between Mexico City and Irapuato (95km) Suspended until the section between Mexico City and Queretaro begin operation.	
3.SECTOR	Transportation/Railway	(US\$1,000)	1) 2)	Foreign Cost		
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)			The Japanese team provided technical advice and guidance on technical standards, specifications and bidding documents for detailed design, covering the following major areas. 1) Preparation of train operation plans 2) Introduction of locomotives 3) Track design 4) Upgrading of signal facilities a) Signal automation (double-track type) b) CTC for all sections c) Introduction of ATC on all sections 6) Upgrading of telecommunication systems 7) Upgrading of systems for rolling stock inspection and repair	
5.TYPE OF STUDY	Other	4.CONDITIONS AND DEVELOPMENT IMPACTS				
6.COUNTERPART AGENCY	Secretaria de Comunicaciones y Transportes				2.MAJOR REASONS FOR PRESENT STATUS Financial problems.	
7.OBJECTIVES OF STUDY	Technical advice and guidance on technical standards and specification for detailed study on electrification of the section between Mexican City and Irapuato, as part of the trunk line electrification plan of the Mexican					
8.DATE OF S/W	.1980				3.PRINCIPAL SOURCE OF INFORMATION ①②	
9.CONSULTANT(S)	Japan Railway Technical Service					
10.STUDY TEAM	No.of Members 23 Period May.1980-Mar.1981(10 months) Total M/M Japan Field 32.87 18.50 14.37					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY						
12.EXPENDITURE	Total 111,252 (¥'000) Contracted 87,967	5.technical transfer				
		On-the-job training for Mexican counterparts through joint work.				

和名 幹線鉄道電化計画

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

PROJECT SUMMARY (Other)

CSA MEX/S 604/82

Compiled .1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1.COUNTRY	Mexico	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY Development Plan of Industrial Ports		2.PROJECT COST (US\$1,000)			(Description) The progress of development in the selected ports has been as follows: 1) Altamira Port 1985 Multi-purpose berth (No.1 Berth) completed for use 1990 Feb. No.2 Berth completed for use 1990 May Construction of No.3 Berth to started and to be completed in 1992. (Infrastructural development to be financed by own funds, and necessary equipment by World Bank.) 2) Lazaro Cardenas Port 1985 General cargo berth completed for use No.3 Berth (muti-purpose) will be constructed dependent on the future increase of cargo throughput. 3) Oschon Port Development is suspended. 4) Salina Cruz Port The construction of the breakwater was completed, but the development of the port is suspended. However, the development of oil-exporting port facilities have been under way.		
3.SECTOR Development Plan/Integrated Regional Development Plan		Total Cost Local Cost Foreign Cost 1) 2)					
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S) The Japanese expert team provided technical advice and guidance on the port development necessary for coastal industrial growth, covering such areas as planning of physical facilities (including cargo facilities at multi-purpose wharves), cargo handling operations, and alternatives of physical development.			2.MAJOR REASONS FOR PRESENT STATUS Reasons for 3) problems in land acquisition		
5.TYPE OF STUDY Other							
6.COUNTERPART AGENCY Comision Nacional Coordinadora del Disarollo, Secretaria de Presidente, (SCT)		4.CONDITIONS AND DEVELOPMENT IMPACTS			3.PRINCIPAL SOURCE OF INFORMATION ①②		
7.OBJECTIVES OF STUDY Technical advice on all aspects of port development for coastal industrial growth							
8.DATE OF S/W .0		5.technical transfer On-the-job training was provided to Mexican counterparts concerning planning, design, investigation, management, man-power training and other areas necessary for port development. This technical transfer contributed to the formlation of master					
9.CONSULTANT(S) Overseas Coastal Area Development Institute of Ja							
10.STUDY TEAM No.of Members Period Jul.1980-Mar.1982 (20 months) Total M/M Japan Field							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
12.EXPENDITURE Total 50,192 (¥'000) Contracted							

和名 臨海工業地帯建設にかかる技術協力計画

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

PROJECT SUMMARY (F/S)

CSA MEX/S 301/83

Compiled Mar.1986

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Mexico	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Guanajuato New Railway Development Project	A line linking major cities between Apaseo el Grande and Francisco del Rincon (167km)					
3.SECTOR	Transportation/Railway	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1)	386,000	237,000	149,000	
5.TYPE OF STUDY	F/S	(US\$1=111.95pesos)	2)				
6.COUNTERPART AGENCY	Gobierno del Estado de Guanajuato	3)	3.CONTENTS OF MAJOR PROJECT(S)				
7.OBJECTIVES OF STUDY	Construction of a new railway line for passenger transport in the Bajio Industrial Corridor in Guanajuato State.	(100 million pesos)				(Description) The implementation of the proposed project was suspended in October 1983, when the then Governor of Guanajuato was replaced together with his technical staff. Because the construction of highways and the electrification of national railways are currently under way, the present Government of Guanajuato State is unlikely to reconsider the project. Therefore, the project is judged as cancelled. (FY1991 Overseas Survey) After the election in 1991, the opposition party took the political power. As a result, the personnel who knows the background of this project left the state government.	
8.DATE OF S/W	Dec.1982	Civil engineering works 169 Electric engineering works 86 Rolling stock bases and workshops 34 Land acquisition (compensation) 12 Rolling stock 131					
9.CONSULTANT(S)	Japan Railway Technical Service	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM	No.of Members 12 Period Mar.1983-Nov.1984(8 months)	Conditions and Development Impacts: Assumptions: - Partial opening of the line in 1990 - Opening of the entire line in 1995 - Completion of double tracking in 2000 Expected development impacts: Balanced development of new residential cities and new industrial parks in the Bajio Industrial Corridor of Guanajuato State.				2.MAJOR REASONS FOR PRESENT STATUS 1) Departure of the Governor of Guanajuato State 2) Financial difficulty in Mexico 3) Policy change	
	Total M/M						
	75.11	46.80	28.31	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY			
12.EXPENDITURE	Total 149,529 (¥000) Contracted 140,700	5.technical transfer				3.PRINCIPAL SOURCE OF INFORMATION ①②	
		One counterpart participated in the JICA training program. On-the-job training for undertaking feasibility studies.					

和名 グアナフアト州高速鉄道開発計画

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

PROJECT SUMMARY (F/S)

CSA MEX/S 302/83

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Mexico	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Development Project of the Industrial Port of Tuxpan	Tuxpan, Veracruz State					
3.SECTOR	Transportation/Port	2.PROJECT COST		Total Cost	Local Cost		
4.REFERENCE NO.		(US\$1,000)	1) 622,000	196,000	426,000		
5.TYPE OF STUDY	F/S	(US\$1=250Yen)	2)				
6.COUNTERPART AGENCY	Comision Nacional Coordinadora de Puertos, Secretaria de Comunicaciones y Transportes	3)	3.CONTENTS OF MAJOR PROJECT(S)		(Description) The project was suspended after the completion of the F/S. The project was identified as part of the industrial port development plan by the Mexican Government. The Tuxpan Port was considered as one of the development projects to support and expedite the petroleum development plan in Chicontepec Basin. Because petroleum-producing strata in the Basin were found to be very deep, the petroleum development was suspended in 1982. In response to the onset of severe economic crisis in 1982, the President De la Madri announced in January 1983 that the industrial port development would be limited to the Altamira Port and the Lazaro Cardenas Port. This policy has been continued by the President Sarinas who took power in December 1988. Under the circumstances, the development of the Tuxpan Port as an industrial port is currently suspended. (FY1991 Overseas Survey) The development of the Tuxpan Industrial Port must be suspended presently, as far as the transportation problems (railway and roads) can not be solved. (FY1992 Overseas Survey) No additional information.		
7.OBJECTIVES OF STUDY	Formulation of a master plan through 2000, the formulation of a short-term development plan, and the execution of a feasibility study	1. Facilities		Scale of Development			
8.DATE OF S/W	May.1982	2.Breakwater		4,900m			
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja	3. Quaywall		5,625m			
10.STUDY TEAM	No.of Members 10 Period Jul.1982-Nov.1983 (16 months)	4.Dredging		68.6 million cum			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. Others					
12.EXPENDITURE	Total 173,817 (¥'000) Contracted 169,244	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 14.00 EIRR2) EIRR3)		
		5.TECHNICAL TRANSFER		On-the-job training was provided to counterparts through joint work of data collection and analysis and report writing.			
		2.MAJOR REASONS FOR PRESENT STATUS		The national financial and economic crisis in 1982 - 1983 suspended petroleum development in Chicontepec Basin, and the policy changed over the industrial port development.			
		3.PRINCIPAL SOURCE OF INFORMATION		①②			

和名 トクスパン工業港開発計画

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

PROJECT SUMMARY (F/S)

CSA MEX/S 303/85

Compiled Mar.1988

Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT																								
1. COUNTRY	Mexico	1. SITE OR AREA			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing																							
2. NAME OF STUDY	Development Project of the Port of Manzanillo	Manzanillo, Colima State																											
3. SECTOR	Transportation/Port	2. PROJECT COST			(Description)																								
4. REFERENCE NO.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">1)</td> <td style="text-align: center;">Total Cost</td> <td style="text-align: center;">Local Cost</td> <td style="text-align: center;">Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td></td> <td style="text-align: center;">32,800</td> <td style="text-align: center;">20,800</td> <td style="text-align: center;">12,000</td> </tr> <tr> <td>(US\$1=192pesos=240yen)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td></td> <td></td> <td></td> </tr> </table>						1)	Total Cost	Local Cost	Foreign Cost	(US\$1,000)		32,800	20,800	12,000	(US\$1=192pesos=240yen)						2)					3)	
	1)	Total Cost	Local Cost	Foreign Cost																									
(US\$1,000)		32,800	20,800	12,000																									
(US\$1=192pesos=240yen)																													
	2)																												
	3)																												
5. TYPE OF STUDY	F/S	3. CONTENTS OF MAJOR PROJECT(S)			<p>The project is now under implementation as shown below:</p> <p>1986 Land development behind Berth B and construction of Berth C started</p> <p>1987 Cargo handling facilities behind Berth B, Berth C and petroleum tanks and associated facilities completed</p> <p>1988 Land development and surface pavement behind Berth C completed</p> <p>1990 A container yard and a berth behind Berth C (land reclamation started in 1990, and the Berth expected to be completed in 1991)</p> <p>The Mexican side completed the detailed design, but the application for an OECF loan fell through. Construction has been partly financed by the World Bank sector loan, but mostly by own funds.</p> <p>(FY1991 Overseas Survey) 1992 Berth C is scheduled to be completed and to be operated from the forth quarter</p> <p>(FY1992 Overseas Survey) 1993.2 Completion of 9 Berths.</p>																								
6. COUNTERPART AGENCY	Comision Nacional Coordinadora de Puertos, Secretaria de Comunicaciones y Transportes	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left;">Facilities</td> <td style="text-align: right;">Scale or capacity</td> </tr> <tr> <td>- Dredging</td> <td style="text-align: right;">1,170,000 cum</td> </tr> <tr> <td>- Quaywall</td> <td style="text-align: right;">900 m</td> </tr> <tr> <td>- Railway</td> <td style="text-align: right;">1,500 m</td> </tr> <tr> <td>- Road</td> <td style="text-align: right;">7,500 m</td> </tr> <tr> <td>- Storage</td> <td style="text-align: right;">15,000 sqm</td> </tr> <tr> <td>- Water and electricity supply facilities</td> <td style="text-align: right;">1 system</td> </tr> </table>					Facilities	Scale or capacity	- Dredging	1,170,000 cum	- Quaywall	900 m	- Railway	1,500 m	- Road	7,500 m	- Storage	15,000 sqm	- Water and electricity supply facilities	1 system									
Facilities	Scale or capacity																												
- Dredging	1,170,000 cum																												
- Quaywall	900 m																												
- Railway	1,500 m																												
- Road	7,500 m																												
- Storage	15,000 sqm																												
- Water and electricity supply facilities	1 system																												
7. OBJECTIVES OF STUDY	Formulation of a master plan through 2000, the formulation of a short-term development plan, and the execution of a feasibility study	4. FEASIBILITY AND ITS ASSUMPTIONS			2. MAJOR REASONS FOR PRESENT STATUS																								
8. DATE OF S/W	Jun.1984	<table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Imp. Period: Jan.1985-Dec.1989</td> </tr> <tr> <td style="text-align: center;">Feasibility:</td> <td style="text-align: center;">EIRR1) 16.04 FIRR1) 7.21</td> </tr> <tr> <td style="text-align: center;">Yes</td> <td style="text-align: center;">EIRR2) FIRR2)</td> </tr> <tr> <td></td> <td style="text-align: center;">EIRR3) FIRR3)</td> </tr> </table>					Imp. Period: Jan.1985-Dec.1989		Feasibility:	EIRR1) 16.04 FIRR1) 7.21	Yes	EIRR2) FIRR2)		EIRR3) FIRR3)															
Imp. Period: Jan.1985-Dec.1989																													
Feasibility:	EIRR1) 16.04 FIRR1) 7.21																												
Yes	EIRR2) FIRR2)																												
	EIRR3) FIRR3)																												
9. CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja	Conditions and Development Impacts: Assumptions: Cargo throughout projected for 1990 and 2000 are 2.3 and 3.08 million tons, respectively. The existing facilities including those under construction are to be utilized efficiently.			3. PRINCIPAL SOURCE OF INFORMATION																								
10. STUDY TEAM	No. of Members 8 Period Sep.1984-Oct.1985 (13 months)	Development Impacts: The proposed port development will stimulate the growth of production and population in Manzanillo. The Manzanillo area will become one of the major bases of physical distribution in Mexico. This will contribute to dampen a further expansion of Mexico city.																											
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER			①②																								
12. EXPENDITURE		One of the counterparts participated in the JICA training program on methods of feasibility analysis.																											
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">153,736 (¥'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">147,906</td> </tr> </table>		Total	153,736 (¥'000)	Contracted	147,906																								
Total	153,736 (¥'000)																												
Contracted	147,906																												

和名 マンサニーヨ港開発計画

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

PROJECT SUMMARY (F/S)

CSA MEX/S 304/87

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT				
1.COUNTRY	Mexico	1.SITE OR AREA		Industrial City of Lazaro Cardenas which is centrally located in the Pacific coast		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled			
2.NAME OF STUDY	Repair Dockyard in Lazaro Cardenas	2.PROJECT COST		Total Cost	Local Cost			Foreign Cost		
3.SECTOR	Transportation/Marine Transportation & Ships			1) 101,700	49,000	52,700				
4.REFERENCE NO.				2)						
5.TYPE OF STUDY	F/S			3)						
6.COUNTERPART AGENCY	Banco Mexicano SOMEX	3.CONTENTS OF MAJOR PROJECT(S)		(Description) SOMEX initially expected to select one of its 117 subsidiary enterprises for operation and management of the proposed dockyard. However, privatization of those enterprises was completed in October 1988. Along with the election of the new President in December 1988, top management of SOMEX was also replaced, necessitating the suspension of the proposed project. (FY1991 Overseas Survey) Furthermore, the privatization of the SOMEX itself was determined in 1992 and the necessary procedure is being taken including personnel transfer. The project is now judged cancelled.						
7.OBJECTIVES OF STUDY	Feasibility analysis of a repair dockyard and technical transfer to Mexican counterparts	Facilities Scale Floating dock 230m x 55m Work Bay 230m x 40m Repair berth and other associated facilities								
8.DATE OF S/W	Sep.1986	Imp. Period: Jan.1990-Dec.1996								
9.CONSULTANT(S)	Overseas Ships Building Cooperation Center	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No EIRR1) 11.00 FIRR1) 9.90 EIRR2) EIRR3) FIRR3)							
10.STUDY TEAM	No.of Members 9 Period Mar.1987-Mar.1988 (13 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">40.67</td> <td style="text-align: center;">26.13</td> <td style="text-align: center;">15.54</td> </tr> </table>	Total M/M	Japan	Field	40.67	26.13	15.54	Conditions and Development Impacts: Assumptions: - Repair demand is projected for 1995, 2005 and 2015. - Gross income is estimated on the basis of past performance, with modification from Japanese data. Project period is 30 years. - The floating dock and (funadai method) are adopted after comparative analysis of four alternatives of lifting ships. - Development of related infrastructure, such as access channel, access road and water supply to the dockyard, is to be financed by the public sector.		2.MAJOR REASONS FOR PRESENT STATUS
Total M/M	Japan	Field								
40.67	26.13	15.54								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	5.TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION						
12.EXPENDITURE		On-the-job training for counterparts about the technique of F/S.		①②						
		Total	127,908 (¥'000)							
		Contracted	109,909							

和名 ラサロカルデナス港修繕ドック整備計画

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

PROJECT SUMMARY (F/S)

CSA MEX/S 305/90

Compiled Mar.1992
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Mexico	1.SITE OR AREA	Port of Salina cruz, Larzaro cardenas, Manzanillo, Mazatlan, Guaymas and Engenada			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY Improvement of the Pacific Coast Ports		2.PROJECT COST (US\$1,000)		Total Cost 71,088	Local Cost 37,200	Foreign Cost 33,888	(Description) - Container Terminals are scheduled to start operation in summer 1992 in the port of Manzanillo and Larzaro Cardenas. Manzanillo: construction of a new container terminal. Larzaro Cardenas: addition of a gantry crane. - For the realization of efficient cargo handling systems, some measures such as privatization are taken based on this study. (FY 1991 Overseas Survey) - The World Bank committed 45 million dollar loan in order to implement the improvement plan of each port. (Total amount of investment: 50 million dollars.) - The project implementation (equipment procurement & port improvement) is scheduled to start in 1991 and to end in 1994. - As far as the urgent improvement plan is concerned, the concret plan is under preparation by the Mexican side. - As far as short-term efficiency improvement plan is concerend, a detailed plan is under preparation. (FY1992 Overseas Survey) 1993.3 The target year of starting operation (both ports)	
3.SECTOR Transportation/Port		3.CONTENTES OF MAJOR PROJECT(S)						
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
5.TYPE OF STUDY F/S		Imp. Period: Mar.1989-Jun.1990		29.05	13.75	10.06		
6.COUNTERPART AGENCY Puertos Mexicanos		Conditions and Development Impacts: Conditions: 1. The existence of the problem of superannuated low cargo handling productivity and shortage of cargo handling facilities/equipment. 2. The forecast of an increase of the containerized cargo volume in the objective port. Development Impacts: 1. The future cargo volume could be treated based on the pivotal 2 ports. 2. The project could create the new employment in the objective port and is expected to make the ripple effect to the other industry.						
7.OBJECTIVES OF STUDY 1. Urgent Improvement Plan of each port 2. Long-term development policy of each port 3. Feasibility study of selected ports		10.STUDY TEAM						
8.DATE OF S/W Oct.1988		No.of Members 15 Period Mar.1989-Jul.1990 (17 months)						
9.CONULTANT(S) Overseas Coastal Area Development Institute of Japan Nihon Koei Co., Ltd.		Total M/M Japan Field 75.33 25.24 50.09						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY O/D analysis of the Pacific coastal area		5.technical transfer The method of port planning detail design and the ways of economic and financial analysis are transferred.						
12.EXPENDITURE		Total 261,520 (¥'000) Contracted 252,593						
							2.MAJOR REASONS FOR PRESENT STATUS In Mexico, improvement of the efficiency of the port and maritime is considered important for the promotion of export.	
							3.PRINCIPAL SOURCE OF INFORMATION ①②	

和名 太平洋港湾整備計画

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

PROJECT SUMMARY (Basic Study)

CSA PAN/S 501/81

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS				
1.COUNTRY	Panama	1.SITE OR AREA	Northwest region along the Caribbean coast (8,000 sq.m)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued			
2.NAME OF STUDY	Topographic Mapping Project of the Caribbean Coastal Area	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) (FY1991 Overseas Survey) The result of the study is utilized especially in electricity, communication, broadcasting and social infrastructure. The map will be utilized for the future development planning.			
3.SECTOR	Social Infrastructures/Survey & Mapping	(US\$1,000)	1)	2)					
4.REFERENCE NO.		3.CONTENTENTS OF MAJOR PROJECT(S)							
5.TYPE OF STUDY	Basic Study	National base maps (scale:1/50,000, 12 plates)							
6.COUNTERPART AGENCY	Instituto Geografico Nacional								
7.OBJECTIVES OF STUDY	Preparation of basic information for development planning								
8.DATE OF S/W	Jun.1978	4.CONDITIONS AND DEVELOPMENT IMPACTS							
9.CONSULTANT(S)	International Engineering Consultants Association	Maps will be used as the basis for planning hydropower generation, and road and railway construction.							
10.STUDY TEAM	No.of Members 20 Period Jan.1979-May.1980 (17 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> </table>	Total M/M	Japan	Field				2.MAJOR REASONS FOR PRESENT STATUS	
Total M/M	Japan	Field							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY									
12.EXPENDITURE		5.TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION				
Total	442,096 (¥'000)	OJT and lectures on aerophotography and cartography			①②				
Contracted									

和名 カリブ海沿岸地区地図作成事業

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

PROJECT SUMMARY (Basic Study)

CSA PAN/A 501/83

Compiled Mar.1990

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Panama	1.SITE OR AREA	In the water basin within 200 nautical miles, deeper than 100m, in the offshore of Caribbean Sea of Republic of Panama		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Fisheries Resources Survey of the Atlantic Coast	2.PROJECT COST (US\$1,000)			
3.SECTOR	Fisheries/Fisheries	3.CONTENTES OF MAJOR PROJECT(S)	(Description) (FY1991 Overseas Survey) This study drew international attention to the fisheries resources of the Atlantic Ocean. Three groups of private firms including Japanese firms are interested in investing in the fishery. The result of the study is fully utilized.		
4.REFERENCE NO.		-Survey of fishery development in the shore of the Atlantic Ocean (1981,82,83)			
5.TYPE OF STUDY	Basic Study	-Improvement of fishing base			
6.COUNTERPART AGENCY	Bureau of Marine Resources, Department of Commerce and Industry				
7.OBJECTIVES OF STUDY					
8.DATE OF S/W	Nov.1981	4.CONDITIONS AND DEVELOPMENT IMPACTS			
9.CONSULTANT(S)	Universal Fisheries Inc.	-Expansion of fishing places which have been limited to shrimp fishing in the shore of the Atlantic Ocean -Development of Pink Shrimp -Comprehensive and long-term development plan is necessary including the Pacific Ocean side for tuna and spearfish.			
10.STUDY TEAM	No.of Members 3 Period Total M/M Japan Field	5.technical transfer	2.MAJOR REASONS FOR PRESENT STATUS		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY			3.PRINCIPAL SOURCE OF INFORMATION		
12.EXPENDITURE	Total 516,500 (¥'000) Contracted 463,837	two trainees	①②		

和名 大西洋岸漁業資源調査

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

PROJECT SUMMARY (F/S)

CSA PAN/S 302/84

Compiled Mar.1988
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT					
1.COUNTRY	Panama	1.SITE OR AREA	Panama Metropolitan Area			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY	Urban Transport Project in the Panama Metropolitan Area (ESTAMPA II)	2.PROJECT COST (US\$1,000)	1) Total Cost 111,100	2) Local Cost 70,900	3) Foreign Cost						
3.SECTOR	Transportation/Urban Transportation	3.CONTENTS OF MAJOR PROJECT(S)	Contents: Scale: 1. New road construction Approx. 20 km. 2. Betterment of the existing road - Ordinary road Approx. 15 km. - Grade separation One (1) point				(Description) A detailed design study on new road construction was completed in 1990 by IDB finance. The priority of the project is high, but the implementation has been postponed indefinitely due to the continued political destabilization. (FY1991 Overseas Survey) Financial assistance was requested to Japan, the World Bank and the IDA. However, it was not succeeded because of the invasion of Panama by the United States. Domestically, financial assistance is planned to be requested to Banco Prirad con obras Concesionadas. (FY1992 Overseas Survey) In spite of the final design plans, the government of Panama does not have enough disposable finance for the implementation of this project. Therefore, there are negotiations to assure the finance through either international loans or administrative grants.				
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS						Feasibility: Yes/No	EIRR1) 26.40 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
5.TYPE OF STUDY	F/S	8.DATE OF S/W		Mar.1983		2.MAJOR REASONS FOR PRESENT STATUS					
6.COUNTERPART AGENCY	Ministry of Public Works	9.CONSULTANT(S)		Yachiyo Engineering Co., Ltd.							
7.OBJECTIVES OF STUDY	A Feasibility study for the priority projects selected through the master plan study	Imp. Period:		Jan.1987-Jun.1990		(FY1992 Overseas Survey) Problems in obtaining funds.					
10.STUDY TEAM	No.of Members 11 Period May.1983-Jan.1985 (20 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;">84.94</td> <td style="text-align: center;">13.84</td> <td style="text-align: center;">71.10</td> </tr> </table>	Total M/M	Japan	Field	84.94			13.84	71.10	Conditions and Development Impacts:	
Total M/M	Japan	Field									
84.94	13.84	71.10									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	- Topographic and geological survey. - Air photograph and mapping (Sub-Contract with local consultants)	5. TECHNICAL TRANSFER		1) OJT : Seminar on urban transport in Panama City 2) Acceptance of trainees : Training on specific fields for five counterparts. 3) Use of local consultants : Soil survey		3.PRINCIPAL SOURCE OF INFORMATION					
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">741,557 (¥000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">295,841</td> </tr> </table>	Total	741,557 (¥000)	Contracted	295,841						
Total	741,557 (¥000)										
Contracted	295,841										

和名 パナマ首都圏都市交通計画

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

PROJECT SUMMARY (F/S)

CSA PAN/S 301/84

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT											
1.COUNTRY	Panama	1.SITE OR AREA		Total Cost Local Cost Foreign Cost		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="radio"/> Processing										
2.NAME OF STUDY	Short-Wave Broadcast Station Project	Entire country															
3.SECTOR	Communications & Broadcasting/Broadcasting	2.PROJECT COST		(US\$1,000) 1) 2) 3)		(Description) (FY1991 Overseas Survey) The hearing of the background of this project was impossible owing to the political and economic disorder caused by the American invasion.											
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)															
5.TYPE OF STUDY	F/S	Necessary experimental equipment and facilities are proposed to undertake the following services. 1) Domestic broadcasting (short-wave) 2) International broadcasting (short-wave) 3) International broadcast relay															
6.COUNTERPART AGENCY	Ministry of Interior and Justice	Imp. Period: <table style="width: 100%; border: none;"> <tr> <td style="border: none;">4.FEASIBILITY AND ITS ASSUMPTIONS</td> <td style="border: none;">Feasibility: Yes/No</td> <td style="border: none;">EIRR1)</td> <td style="border: none;">FIRR1)</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;">EIRR2)</td> <td style="border: none;">FIRR2)</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;">EIRR3)</td> <td style="border: none;">FIRR3)</td> </tr> </table>		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No			EIRR1)	FIRR1)			EIRR2)	FIRR2)			EIRR3)	FIRR3)
4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No			EIRR1)	FIRR1)												
				EIRR2)	FIRR2)												
		EIRR3)	FIRR3)														
7.OBJECTIVES OF STUDY	Construction planning for the experimental short-wave broadcasting	Conditions and Development Impacts: 1) There are about 60 AM or FM stations operating in Panama, but because of the difficult terrains, the coverage of these stations are inadequate. The short-wave station will improve the situation. 2) Panama can participate in the international broadcasting network. 3) Panama will become one of the regional relay centers connecting South and North America.															
8.DATE OF S/W	Nov.1983			10.STUDY TEAM No. of Members Period Jun.1984--Jan.1985 (7 months)													
9.CONSULTANT(S)																	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER		2.MAJOR REASONS FOR PRESENT STATUS													
12.EXPENDITURE				3.PRINCIPAL SOURCE OF INFORMATION													
Total 53,132 (¥'000) Contracted				①②													

和名 短波放送施設建設計画

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

PROJECT SUMMARY (Basic Study)

CSA PAN/A 502/84

Compiled Mar.1990

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS					
1.COUNTRY	Panama	1.SITE OR AREA	An area of 1,534 sq.km of Donoso district in Colon state of Panama		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued				
2.NAME OF STUDY	Inventario forestal del distrito de Donoso	2.PROJECT COST	Total Cost	Local Cost		Foreign Cost			
3.SECTOR	Forestry/Forestry & Forest Conservation	(US\$1,000)	1)						
4.REFERENCE NO.			2)						
5.TYPE OF STUDY	Basic Study	3.CONTENTS OF MAJOR PROJECT(S)		(Description) (FY1991 Overseas Survey) Technology and methods which were transferred to Panama during the study are utilized in the formulation of guidelines for forest resources development.					
6.COUNTERPART AGENCY	National Direction of Renewable Natural Resources	Guideline for forestry development plan in undeveloped area in Donoso district in Colon state was prepared containing the following components:							
7.OBJECTIVES OF STUDY		1.Introduction of forest planning system 2.Promotion of forest products industry 3.Enforcement of land use planning 4.Enrichment of forest experimentation and study							
8.DATE OF S/W	Sep.1982	4.CONDITIONS AND DEVELOPMENT IMPACTS							
9.CONSULTANT(S)	Japan Forest Technical Association	Development of roads for regional development are indispensable immediately, starting from the pacific coastal road because there are no roads from other areas and there are no roads in objective area. Forest is diminishing by shifting cultivation, but it is possible to utilize forest appropriately and to conserve it by introduction of land use plan and forest planning system.							
10.STUDY TEAM	No. of Members 26 Period Dec.1982-Mar.1985 (28 months)			2.MAJOR REASONS FOR PRESENT STATUS					
	<table style="margin-left: auto; margin-right: auto;"> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> <tr> <td>137.00</td> <td>58.00</td> <td>79.00</td> </tr> </table>			Total M/M	Japan	Field	137.00	58.00	79.00
Total M/M	Japan	Field							
137.00	58.00	79.00							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Aerial Photography	5. TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION					
12.EXPENDITURE	Total 325,490 (¥'000)	- Trainee acceptance - OJT of forest survey - Guidance for how to analyze topography - Method of data processing							
	Contracted 295,242								

和名 林業資源調査

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

PROJECT SUMMARY (F/S)

CSA PAN/S 303/87

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Panama	1.SITE OR AREA		Area along the Bay at the southern Panama metropolitan area		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Corredor Sur Development Project in the Panama Metropolitan Area (ESTAMPA III)	2.PROJECT COST (US\$1,000)		Total Cost	Local Cost		
3.SECTOR	Transportation/Urban Transportation	3.CONTENTES OF MAJOR PROJECT(S)		1) 258,000	165,120		(Description) The preparation for loan application was under way in late 1989, but the application has been postponed indefinitely due to the political destabilization. (FY1991 Overseas Survey) Ministry of Public Works is planning to request budget for Fondo de Preinversion. (FY1992 Overseas Survey) There are no final design plans. There are attempts to obtain funds for both construction and final design plans of the project either by international loans or administrative grants.
4.REFERENCE NO.		Corredor Sur I (in the built-up area)		Expansion into 6 lanes, new construction: about 10km			
5.TYPE OF STUDY	F/S	Corredor Sur II (suburbs)		New construction of 6 lanes and 4 lanes: about 12km			
6.COUNTERPART AGENCY	Ministry of Public Works	Major access road		Expansion into 6 lanes, new construction: about 13km			
7.OBJECTIVES OF STUDY	F/S study of South Link Road Construction Project that was selected as priority project in the Master Plan	Extension of Corredor Sur		Expansion into 4 lanes: about 2km			
8.DATE OF S/W	Feb.1987	Imp. Period:		.1988-.1999			
9.CONSULTANT(S)	Yachiyo Engineering Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 30.00 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM	No. of Members 11 Period Jul.1986-Feb.1988(20 months)	Conditions and Development Impacts:		Development effects:			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Traffic Survey, geological and soil survey, topographic and aerial survey, and mapping.	Conditions for IRR calculation: EIRR was calculated with the benefits of reduction in operating costs and travelling time.		Establishment of the west-east axis in the Panama metropolitan area			
12.EXPENDITURE	Total 278,876 (¥'000) Contracted 259,501	5.technical transfer		1) OJT : Calculation by the use of personal computer, 2) Accepted trainees: Three (3), 3) Report : Joint works for preparation of English reports in Panama, 4) Use of local consultant: Topographic survey, geological and soil survey, and 5) Prevision an instruction of equipment : Personal computers			
						2.MAJOR REASONS FOR PRESENT STATUS	- Political and economic instability were created by the invasion of Panama by the United States. - Delay of Diseno Final - Low priority (FY1992 Overseas Survey) - The absence of final design plans.
						3.PRINCIPAL SOURCE OF INFORMATION	①②

和名 パナマ市南部回廊建設計画

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

PROJECT SUMMARY (Other)

CSA PRY/S 601/76

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1.COUNTRY	Paraguay	1.SITE OR AREA	Acaai - La Colmena in the south of Asuncion			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	La Colmena Highway (follow-up)	2.PROJECT COST				Total Cost	Local Cost
3.SECTOR	Transportation/Road		(US\$1,000)	1) 6,257	1,870		
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)					
5.TYPE OF STUDY	Other	Following the F/S undertaken by a USA consulting firm on the road between Carapequara and La Colmena, the study reviewed the F/S on the section between Acaai and La Colmena and proposed the following development. -Road construction (28.5 km, surface treatment by the two-layer method) -Bridge construction (replacement of 8 bridges, new construction of culverts at 3 bridges)					
6.COUNTERPART AGENCY	Dept.of Road, Ministry of Public Works and Communications						
7.OBJECTIVES OF STUDY	Review of the F/S	4.CONDITIONS AND DEVELOPMENT IMPACTS					
8.DATE OF S/W	.0	The project will enable the closer integration of 40-year-old La Colmena settlement communities to metropolitan Asuncion.					
9.CONSULTANT(S)	Central Consultant, Inc.						
10.STUDY TEAM	No.of Members 2 Period Sep.1976-Jan.1977 (4 months)				2.MAJOR REASONS FOR PRESENT STATUS		
	Total M/M Japan Field						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
12.EXPENDITURE		5.TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION		
	Total 5,872 (¥'000)				①④		
	Contracted 5,770						

和名 ラ・コルメナ道路アフターケア

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

PROJECT SUMMARY (F/S)

CSA PRY/S 301/78

Compiled Mar.1986
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Paraguay	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Fleet Expansion Project	2.PROJECT COST		Total Cost	Local Cost		
		(US\$1,000)	1)	36,870	2,312	34,557	(Description) Jun.1979 OECF loan agreement on the national commercial fleet (7,500 million yen) BOT.EXIM loan (about 10.5 billion yen) Jan.1986 Entire fleet delivered Sep.1987 - Sep.1989 Technical assistance by Japanese experts
		US\$1=200Yen=126G	2)	53,652	1,857	51,795	
			3)				
3.SECTOR	Transportation/Marine Transportation & Ships	3.CONTENTES OF MAJOR PROJECT(S)					
4.REFERENCE NO.		FME's vessels, including 8 vessels purchased by the OECF loan of 1957, are now superannuated and their service ratio shows a marked decline. The study examined the technical and economic feasibility of the fleet expansion program proposed by the Government of Paraguay.					
5.TYPE OF STUDY	F/S	1. Ocean-going vessels (cereals, general and container cargo) one 6,000DWT-ship and two 1,500DWT-ships 2. Dry-cargo barge systems (general cargo, cereals, cement, etc.) 1) 20 barges (365DWT), 2 pushers (1,200PS) and 1 pusher (300PS) 2) 10 barges (800DWT) and 1 Pusher/tug (2,400PS) 3. Oil barge system (crude and diesel oil, liquid gas, etc.) 4 barges(2,000 cu.m) and 1 Pusher/tug (2,400PS)					
6.COUNTERPART AGENCY	Flota Mercante del Estado (FME)	Note: 1) OECF loan 2) BOT.EXIM loan					
7.OBJECTIVES OF STUDY	To evaluate the fleet expansion program of FME						
8.DATE OF S/W	.0	Imp. Period:					
9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	4.70	
		Conditions and Development Impacts: Conditions: 1. The entire 42 vessels are considered as one project. 2. Project cycle of 25 years, including 2 years of ship building 3. Inflation and rises in wages and other costs are excluded from analysis. 4. The benefit consists of fleet revenues and the project cost consists of the costs of ships/barges (excluding depreciation and capital costs) and O/M costs.					
10.STUDY TEAM		Results of Analysis: 1. FIRR of the project is low, indicating the need for FME to improve the efficiency of cargo collection and transportation. 2. Small-barge and large-barge systems have some problems, but will be feasible if properly operated. 3. The operation of oil barges and smaller ocean-going ships is feasible 4. The operation of the 6,000DWT ship will not be profitable, but sufficiently feasible as part of the projects, and has the following advantages. 1) Facilitation of shipping product from Paranaqua Free Port 2) Saving of foreign exchange 3) Acquisition of ocean navigating skills as a step to the operation of large ocean liners in the future				2.MAJOR REASONS FOR PRESENT STATUS	
No.of Members 7 Period Mar.1978-Oct.1978 (7 months) Total M/M Japan Field						3.PRINCIPAL SOURCE OF INFORMATION	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer				①②③	
12.EXPENDITURE							
Total		18,318 (¥'000)					
Contracted							

和名 船舶増強計画

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

PROJECT SUMMARY (F/S)

CSA PRY/S 302/79

Compiled Mar.1986
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																					
1.COUNTRY	Paraguay	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing																				
2.NAME OF STUDY	New Airport Construction Project in Ciudad Presidente Stroessner	24 km west of Ciudad Del Este which is situated on the border with Brazil																									
3.SECTOR	Transportation/Air Transportation & Airport	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost																					
4.REFERENCE NO.		(US\$1,000)	1) 77,793	22,325	55,468																						
5.TYPE OF STUDY	F/S	(US\$1=220Yen=140gua.)	2) 11,015	3,201	7,814																						
6.COUNTERPART AGENCY	Civil Aviation Administration (ANAC)	3) 3)				(Description) Dec.1980 OECF loan agreement (11,300 million yen) Mar.1983 D/D completed Apr.1987 Start of construction authorized Feb.1989 After the coup d'etat, the new President Gonzalez directed to scale down the project. Aug.1989 The name of the airport changed to Este International Airport Nov.1990 Loan agreement changed (on local currency component) Dec.1990 The contract of construction is being adjusted																					
7.OBJECTIVES OF STUDY	1) To examine technical, economic and financial feasibility of project 2) Technology transfer to counterpart officials	3.CONTENTS OF MAJOR PROJECT(S)																									
8.DATE OF S/W	Dec.1978	Imp. Period: Jan.1981-Dec.1994 Jan.1995-Dec.2004																									
9.CONSULTANT(S)	Japan Airport Consultants, Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 11.00 EIRR2) EIRR3)	FIRR1) 3.80 FIRR2) 5.60 FIRR3)																					
10.STUDY TEAM	No.of Members 11 Period Apr.1979-Feb.1980(10 months)	Conditions and Development Impacts: Conditions: 1. A new airport will be constructed, because it is difficult to expand the existing airport. 2. Project life of 20 years 3. Traffic forecast:				2.MAJOR REASONS FOR PRESENT STATUS																					
	Total M/M Japan Field 44.33 12.00 32.33	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Passengers('000)</th> <th colspan="2">Carqo(tons)</th> <th rowspan="2">Scheduled Aircraft Movements</th> </tr> <tr> <th>Dom.</th> <th>Int'l</th> <th>Dom.</th> <th>Int'l</th> </tr> </thead> <tbody> <tr> <td>1994</td> <td>214</td> <td>325</td> <td>1,979.8</td> <td>3,785.2</td> <td>9,840</td> </tr> <tr> <td>2004</td> <td>394</td> <td>612.9</td> <td>3,020.4</td> <td>5,837.8</td> <td>11,120</td> </tr> </tbody> </table> 4. Direct benefits: 1) saving in travel time and cost of domestic and international passengers, 2) saving in access transport cost of international cargo, 3) flight cost saving due to the new port becoming alternate airport to Asuncion, 4) increased foreign exchange earnings from tourism, and 5) postponed investment on the expansion of Asuncion Airport 5. FIRR are calculated for two cases of raised airport charges. FIRR 1) above is for Case 1, and 2) for Case 2. Development impacts: 1. Contribution to Alto Parana regional development 2. Increase in foreign exchange earnings 3. First airport in Paraguay to serve as an alternate aerodome to Asuncion International Airport							Passengers('000)		Carqo(tons)		Scheduled Aircraft Movements	Dom.	Int'l	Dom.	Int'l	1994	214	325	1,979.8	3,785.2	9,840	2004	394	612.9	3,020.4
	Passengers('000)		Carqo(tons)		Scheduled Aircraft Movements																						
	Dom.	Int'l	Dom.	Int'l																							
1994	214	325	1,979.8	3,785.2	9,840																						
2004	394	612.9	3,020.4	5,837.8	11,120																						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological survey (1,002,000 yen)	5. TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION																					
12.EXPENDITURE	Total 96,378 (¥'000) Contracted 84,840	1)OJT on data collection and analysis 2)Acceptance of trainees (JICA counterpart training program)																									

和名 ストロエスネル新空港建設計画/東部国際空港建設計画 (1989.8から)

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

PROJECT SUMMARY (F/S)

CSA PRY/A 301/82

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Paraguay	1.SITE OR AREA	Northwest of the Lake Ypoa			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Proyecto de desarrollo agricola en la zona noroeste del lago Ypoa	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost		
3.SECTOR	Agriculture/General		1) 70,633	33,222	37,411	(Description) After the completion of the F/S, the project implementation was suspended owing to the difficulty of allocating the local currency portion of the project cost. (FY1991 Overseas Survey) No additional information.	
4.REFERENCE NO.			2)				
5.TYPE OF STUDY	F/S	3.CONTENTES OF MAJOR PROJECT(S)	3)				
6.COUNTERPART AGENCY	Instituto de bienestar rural	Proposed components (40,000ha) -Polder : 35km -Drainage canal Main/Sub: 154/258km -Road Main/Sub : 84/288km -Irrigation facilities : 2,000ha -Cultivation : 40,000 ha -Preparation of community : 4 sites -School : 10 sites -Hospital : 1 site -Health center : 3 sites					
7.OBJECTIVES OF STUDY	Formulation of agriculture and rural development plan for colonization						
8.DATE OF S/W	Mar.1980	Imp. Period:					
9.CONSULTANT(S)	Naigai Engineering Co., Ltd. Kokusai Kougyo Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 12.90 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10.STUDY TEAM	No. of Members 16 Period Nov.1980-Mar.1982 (17 months)	Conditions and Development Impacts: Conditions: In the estimation of EIRR, construction cost of school buildings, hospital and sanitary center is excluded, however, land reclamation cost is included. Impacts: Increase of land productivity: net increase US\$ 260/ha Increase of agricultural income: Average income US\$ 7,600/house/year Promotion of rural economy due to activation of agricultural activities					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					
12.EXPENDITURE	Total 347,604 (¥'000) Contracted 315,928	1.Training of counterparts in Japan 2.Furnishing of the equipment and guidance of its use 3.OJT					
						2.MAJOR REASONS FOR PRESENT STATUS	
						3.PRINCIPAL SOURCE OF INFORMATION	①②

和名 イボア湖北西部農業開発計画

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

PROJECT SUMMARY (M/P+F/S)

CSA PRY/S 201A/83

Compiled Mar.1986
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Paraguay	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	National Telecommunications & Broadcasts Development Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) A feasibility study was subsequently undertaken.						
3.SECTOR	Communications & Broadcasting/General	(US\$1,000)	1) 907,443	177,043	630,400							
4.REFERENCE NO.		US\$1=230Yen=126G	2)									
5.TYPE OF STUDY	M/P+ (F/S)	3.CONTENTS OF MAJOR PROJECT(S)										
6.COUNTERPART AGENCY	Administracion Nacional de Telecomunicaciones (ANTELCO)	The Study proposed the Master Plan for the period of 1983 - 1997, which are divided into three five-year periods (Stages I, II and III). Major projects are as follows. 1) Domestic telecommunications 336,000 lines of subscriber telephones; 3,394 public telephones; 3,060 rural telephones in 25 areas; 11 digitized local telephone exchanges in Asuncion; 318 local telephone exchanges in other areas; 8 toll telephone exchanges; 14 optical fiber systems; 10 long distance microwave routes; 7 new television transmission routes; 5,500 telex terminals; and mobile telephones 2) International Telecommunications Increased international circuits; Modificaton of Arequa Earth Station; Introduction of international subscriber dialing in all automatic exchanges in 1985; 2nd Earth Station; and new services 3) Development of the Radio Regulation and Monitoring System 4) National Educational Television Establishment of a public broadcasting enterprise and a television program production center; Television stations (Asuncion and 11 other places) 5) Manpower Development (Relocation and expansion of IPT, etc.)										
7.OBJECTIVES OF STUDY	Formulation of a long-term development plan(1983-1997) and a feasibility study of urgent projects	4.CONDITIONS AND DEVELOPMENT IMPACTS										
8.DATE OF S/W	Sep.1980	Financial analysis: 1) Financial analysis covers only domestic and international telecommunications. 2) Loan agreements every three years, with 3-year grace period; the opportunity capital cost of 12%; depreciation period of 20 years with residual value of zero 3) FIRR: Domestic Telcom. 24.6%, Int'l Telcom. 45.4%, Combined 27.4% 4) EIRR: Domestic Telcom. 36.7%, Int'l Telcom. 47.1%, Combined 38.1% Development Impacts: 1) Domestic telecom.: Efficiency improvement of government and business operations; Strengthening of competitiveness of agricultural products in domestic and export markets; Improved standard of living; Narrowing of information gaps, etc. 2) International telecom.: Contribution to diplomatic relations and cultural exchange; Narrowing information gaps, etc. 3) Radio regulation & monitoring: More efficient use of frequencies and systematic response to the demand for radio communications; Improving government services, national security, protection of life and property, etc. 4) Educational TV: Improvement of nation-wide education										
9.CONSULTANT(S)	Nippon Telegraph & Telephone Corporation Kokusai Denshin Denwa Co, Ltd. Japan Broadcasting Corporation Japan Telecommunications Engineering and Consult	5.TECHNICAL TRANSFER										
10.STUDY TEAM	No.of Members 31 Period Jul.1981-Jun.1983(24 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">40.24</td> <td style="text-align: center;">40.24</td> <td></td> </tr> </table>	Total M/M	Japan	Field	40.24		40.24		Technical transfer has been conducted through dispatching mission, expert & JDCV and training in Japan.			
Total M/M	Japan	Field										
40.24	40.24											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		3.PRINCIPAL SOURCE OF INFORMATION										
12.EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">220,326 (¥000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">98,239</td> </tr> </table>	Total	220,326 (¥000)	Contracted	98,239	①②						
Total	220,326 (¥000)											
Contracted	98,239											

和名 電気通信・放送拡充計画

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

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1986
Revised Mar.1993

CSA PRY/S 201B/83

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT				
1.COUNTRY	Paraguay	1.SITE OR AREA	Asuncion Area, concepcion, Hohenau, San Pedro, Villarrica, Carapegua			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled			
2.NAME OF STUDY		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description) Apr.1982 OECF loan pledged (9,250 million yen) Nov.1985 OECF loan agreement on automatic international dialling (1,420 million yen) Oct.1988 The operation of the earth station and the international telephone exchange commenced Note: F/S on the 2nd earth station was undertaken, and the ATELCO has been considering the application for another OECF loan, although the effort was interrupted by the coup d'etat in 1989. ATELCO has signed a provisional contract in Nov. 1991 with Siemens for the installation of 30,000 telephones, and is formulating a telephone network expansion plan in cooperation with ITU. (FY1991 Overseas Survey) No additional information.			
National Telecommunications & Broadcasts Development Project		(US\$1,000)		12,188	2,783	9,405				
3.SECTOR		US\$1=230Yen=126G		1)	2)	3)				
Communications & Broadcasting/General		3.CONTENTIS OF MAJOR PROJECT(S)		The Feasibility Study was conducted prior to the Master Plan Study at the strong request from the government of Paraguay. The projects proposed in the Feasibility Study constitute the main segment of the domestic and international telecommunication programs in the 1st 5-year Master Plan (1983 - 1987). 1. Introduction of international subscriber dialling telephone system in the Asuncion Area (Asuncion City, Lambre and Fernando de la Mora). 2. Introduction of digital telephone switching system in the Asuncion Area 1) In Asuncion, no new EMD switches will be purchased after 1986. Digitization will begin in 1987 and end in 1997. 2) Replaced EMD switching equipment will be re-used for the expansion of EMD exchanges in Asuncion and the Interior. 3) 11 exchanges will be digitized with a combined switching capacity of 312,600 by the end of 1997. 3. Consolidation of rural telephone systems 1) Five areas of Concepcion, Hohenau, San Pedro, Villarrica and Carapegua 2) Two 8-channel multiple access subscriber(MAS) radio systems with 90 subscribers for each area						
4.REFERENCE NO.		5.TYPE OF STUDY								
		(M/P)+F/S								
6.COUNTERPART AGENCY		ANTELCO								
7.OBJECTIVES OF STUDY		Formulation of a long-term plan (1983-1997)								
8.DATE OF S/W		Sep.1980		Imp. Period: .1982-.1988						
9.CONSULTANT(S)		Nippon Telegraph & Telephone Corporation Kokusai Denshin Denwa Co, Ltd. Japan Telecommunications Engineering and Consulti		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes				
10.STUDY TEAM		No.of Members 31 Period Jul.1981-Jun.1983 (24 months)		EIRR1) 27.86 FIRR1) 23.68 EIRR2) FIRR2) EIRR3) FIRR3)		2.MAJOR REASONS FOR PRESENT STATUS				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY				Conditions and Development Impacts: Development impacts: 1)Improvement of telecommunication services 2)Rationalization of the ANTELCO operation 3)Equity in telecommunication services by the introduction of the ISD system. 4)Modernization of telecommunication 5)Improvement of basic human services in five rural areas						
12.EXPENDITURE		Total 220,326 (¥'000) Contracted 98,239		5.TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION				
						①②④				

和名 電気通信拡充計画 (電気通信・放送拡充計画のF/S)

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

PROJECT SUMMARY (Basic Study)

CSA PRY/A 501/83

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Paraguay	1.SITE OR AREA	An area of 15,000 sq.km of Department of Amamby, Concepcion, San Pedro and Canediyu		
2.NAME OF STUDY	Forest Inventory in the Northeastern Region	2.PROJECT COST			
3.SECTOR	Forestry/Forestry & Forest Conservation		Total Cost	Local Cost	Foreign Cost
4.REFERENCE NO.			(US\$1,000)		
5.TYPE OF STUDY	Basic Study	3.CONTENTES OF MAJOR PROJECT(S)			
6.COUNTERPART AGENCY	National Forest Service The Republic of Paraguay	<p>The forest management plan was presented containing following components for the above mentioned area which was the largest forest area in Northeastern region of Paraguay. This area's forest rate is 60%.</p> <p>1.Promotion of advanced utilization of land 2.Normalization of forest operation 3.Sustained yield management of forest 4.Promotion of re-afforestation 5.Promotion and maintenance of function of public benefit of forest</p>			
7.OBJECTIVES OF STUDY					
8.DATE OF S/W	Jun.1980				
9.CONULTANT(S)	Japan Forest Technical Association Kokusai Kougyo Co., Ltd.				
10.STUDY TEAM		4.CONDITIONS AND DEVELOPMENT IMPACTS			
No.of Members	29	<p>In order to improve domestic distribution channel, road networks from the capital city, Asuncion, must be improved. It is necessary to promote wood processing industry and wood processed products for export. It is expected that the forest diminution will be prevented and national forest products industry will develop by means of afforestation in cutover land and use of unknown species.</p>			
Period	Jul.1980-Feb.1984 (44 months)				
Total M/M	Japan Field				
	183.00 132.00 51.00	5.TECHNICAL TRANSFER			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Aerial Photography	- Trainee acceptance - OJT of forest survey - Cooperate working of guideline of forestry development plan			
12.EXPENDITURE					
Total	524,662 (¥000)	3.PRINCIPAL SOURCE OF INFORMATION			
Contracted	500,167	①			
		2.MAJOR REASONS FOR PRESENT STATUS			
		<p>1.It is necessary to establish afforestation technique 2.It is impossible to carry out afforestation by local funds.</p>			
		1.PRESENT STATUS			
		<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued			
		(Description)			
		<p>Afforestation projects are being encouraged particularly among the cattle ranchers, because of the serious deforestation reported by the study.</p>			

和名 北東部林業資源調査

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

PROJECT SUMMARY (M/P)

CSA PRY/A 101/84

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS																									
1.COUNTRY	Paraguay	1.SITE OR AREA	South east edge of enormous Parana Swamp located in right hand basin of Parana in the south of this country (population 150,000, Area 150,000, latitude 27°10" to 27°20"s and longitude 56°25"to 57°10"w)			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued																							
2.NAME OF STUDY	Irrigation and Drainage Project in the Adjacent Area to the Yacyreta Dam	2.PROJECT COST				<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">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></td> <td style="text-align: center;">230,917</td> <td style="text-align: center;">115,937</td> <td style="text-align: center;">114,980</td> </tr> <tr> <td></td> <td>US\$1=240Gs in May 1984</td> <td style="text-align: center;">2)</td> <td></td> <td></td> </tr> </table>		(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost			230,917	115,937	114,980		US\$1=240Gs in May 1984	2)			(Description) This Master Plan has been suspended because of the delay of the construction of Yacyreta Dam. (FY 1991 Overseas Survey) No additional information.							
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost																										
		230,917	115,937	114,980																										
	US\$1=240Gs in May 1984	2)																												
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Irrigation Canal</td> <td style="width: 10%;">1,275km</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>Drainage Canal</td> <td>1,173 km</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Pumping place</td> <td>3 sets,</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Agricultural Land Reclamation</td> <td>92,920 ha</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Road</td> <td>474 km</td> <td></td> <td></td> <td></td> </tr> </table> Agricultural processing facilities, Agriculture extension organization, Supplying system of improved seeds, Union to maintain facilities, Pilot farm (approximate scale 1,000 ha)			Irrigation Canal	1,275km				Drainage Canal	1,173 km				Pumping place	3 sets,				Agricultural Land Reclamation	92,920 ha				Road	474 km			
Irrigation Canal	1,275km																													
Drainage Canal	1,173 km																													
Pumping place	3 sets,																													
Agricultural Land Reclamation	92,920 ha																													
Road	474 km																													
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	This project aims to develop unused and/or inadequate used land which spread within right hand basin of Parana River closed to Yacyreta Island, to establish modernized irrigation agriculture by available utilization of water rights (108cu.m/sec) created by the construction of Yacyreta Dam, thanks to the project, to earn foreign currency by the export of agricultural products. Moreover, it is expected that resettlement of population in this area will be promoted through the resettlement of small farmers and other persons whose residences would sink following the construction of Yacyreta Dam. The direct benefit produced from agricultural production is estimated approximately 5.7 billion Gs annually. This amount would occupy just less than 1% of 1981's Gross Domestic Production (700 billion Gs).			2.MAJOR REASONS FOR PRESENT STATUS																								
5.TYPE OF STUDY	M/P	9.CONCONSULTANT(S)					Japan Agricultural Land Development Agency																							
6.COUNTERPART AGENCY	Ministerio de Agricultura y Ganaderia	10.STUDY TEAM	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">No.of Members</td> <td style="width: 20%;">20</td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td>Period</td> <td>Dec.1982-Mar.1985(28 months)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">216.00</td> <td style="text-align: center;">101.00</td> <td style="text-align: center;">115.00</td> </tr> </table>			No.of Members				20				Period	Dec.1982-Mar.1985(28 months)						Total M/M	Japan	Field			216.00	101.00	115.00		
No.of Members	20																													
Period	Dec.1982-Mar.1985(28 months)																													
		Total M/M	Japan	Field																										
		216.00	101.00	115.00																										
7.OBJECTIVES OF STUDY	Elaboration of Master Plan for the Integrated Agricultural Development Project in the Adjacent Area to Yacyreta Dam	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Data Analysis of LANDSAT Imagery			3.PRINCIPAL SOURCE OF INFORMATION ①②																								
8.DATE OF S/W	Sep.1982	12.EXPENDITURE					<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Total</td> <td style="width: 20%;">598,135 (¥'000)</td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td>Contracted</td> <td>555,720</td> <td></td> <td></td> <td></td> </tr> </table>			Total	598,135 (¥'000)				Contracted	555,720														
Total	598,135 (¥'000)																													
Contracted	555,720																													
9.CONCONSULTANT(S)	Japan Agricultural Land Development Agency	5.TECHNICAL TRANSFER	1.Acceptance of trainees for Training Programme 2.Co-operative work to make report																											

和名 ヤシレタダム隣接地域農業総合開発計画

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

PROJECT SUMMARY (F/S)

CSA PRY/A 302/84

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT					
1.COUNTRY	Paraguay	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY	Proyecto de reforestacion en la zona de Capiibary, Departamento de San Pedro	An area of 272.5 sq.km in Capiibary district of San Estanislao City of San Pedro Department									
3.SECTOR	Forestry/Forestry & Forest Conservation	2.PROJECT COST		Total Cost	Local Cost	Foreign Cost					
4.REFERENCE NO.		(US\$1,000)		175,100	150,200	24,900					
5.TYPE OF STUDY	F/S	US\$1=240Gs in 1984		1) 2) 3)							
6.COUNTERPART AGENCY	National Forest Service The Republic of Paraguay	3.CONTENTS OF MAJOR PROJECT(S)				(Description) 1. The Government planned to implement the afforestation project with an OECF loan, but has not been successful to date. 2. Project type technical cooperation by JICA has been carried out since 1987 (Reforestation Project in Central Paraguay; 1987 - 1992).					
7.OBJECTIVES OF STUDY		Planting area (total in 6 years): 6,628 ha Nursery area: 7.5 ha Forest road construction (total in 6 years): 107 km in length Construction of related facilities and buildings									
8.DATE OF S/W	Jun.1983	Imp. Period:									
9.CONULTANT(S)	Japan Forest Technical Association Kokusai Kougyo Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 18.40 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)						
10.STUDY TEAM	No.of Members 18 Period Aug.1983-Mar.1985 (20 months)	Conditions and Development Impacts: Precondition: Plan period of afforestation project is 50 years. First planting term is 6 years and the area is 6,628ha. Rotations of planting tree are selected depending on species or uses. Yield income from natural forest is included to financial plan. Development Impacts: - To increase productivity of forest products. - To increase water and soil conservation functions. - To diffuse and to improve afforestation technics. - Development of forestry related industry, etc. Especially yield from plantations under this project will be estimated to be more than 100,000 cu.m per year.				2.MAJOR REASONS FOR PRESENT STATUS					
	<table style="margin-left: auto; margin-right: auto;"> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> <tr> <td>91.00</td> <td>61.00</td> <td>30.00</td> </tr> </table>	Total M/M	Japan	Field	91.00			61.00	30.00		
Total M/M	Japan	Field									
91.00	61.00	30.00									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Aerial Photography	5. TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION					
12.EXPENDITURE	Total 224,778 (¥'000) Contracted 205,463	Trainee acceptance OUT									

和名 カピバリ地区森林造成計画

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

PROJECT SUMMARY (M/P)

CSA PRY/S 101/86

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Paraguay	1.SITE OR AREA	Asucion Metropolitan Area (Asuncion City + 10 other cities 71,000ha.)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Transito Urbano de Asuncion y su area metropolitana	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) Based on the recommendations of the master plan, a feasibility study was undertaken by JICA during the period of Sept. 1987 - Oct. 1988. The feasibility study evaluated the following proposals. 1) Improvement of East-West and North-South corridors 2) Improvement of streets and traffic signal control in Minicentro 3) A bus terminal near the market No.4 (FY1991 Overseas Survey) No additional information.
3.SECTOR	Transportation/Urban Transportation	(US\$1,000)	1) 109,195	57,405		
4.REFERENCE NO.		(US\$1=240Yen=600G.)	2)			
5.TYPE OF STUDY	M/P	3.CONTENTS OF MAJOR PROJECT(S)				
6.COUNTERPART AGENCY	Municipality of Asuncion City	1) Road project	Pavement plan			
7.OBJECTIVES OF STUDY	Formulation of a master plan for urban transport system including public transport, land use planning, road network etc.	2) Public transport	Reformation of bus network, bus terminal plan, exclusive lane for bus			
8.DATE OF S/W	Mar.1984	3) Traffic betterment in city center	Pedestrians' malls, parking lots			
9.CONSULTANT(S)	Yachiyo Engineering Co., Ltd. Aero Asahi Cor.	4.CONDITIONS AND DEVELOPMENT IMPACTS				
10.STUDY TEAM	No.of Members 12 Period Aug.1984-Aug.1986 (25 months)	Development effects: It is expected that the traffic would be converted from other roads by the expansion of the major trunk roads and grade separation and social and economic activities would be harmonized by the alleviation of the traffic congestion in the city center.				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Preparation of land use map, OD survey, survey on actual road conditions, and traffic survey.	5.TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE	Total 447,282 (¥'000) Contracted 414,071	1) OJT on the use of computer software 2) Acceptance of seven trainees on urban transport planning (JICA training program)			3.PRINCIPAL SOURCE OF INFORMATION	

和名 アスンシオン首都圏都市交通整備計画

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

PROJECT SUMMARY (M/P+F/S)

CSA PRY/S 202A/86

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS				
1.COUNTRY	Paraguay	1.SITE OR AREA	26 rivers in Asuncion			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
2.NAME OF STUDY	Storm Drainage System Improvement Project in Asuncion City	2.PROJECT COST						Total Cost	Local Cost
3.SECTOR	Social Infrastructures/River & Erosion Control	(US\$1,000)	1) 165,720			(Description) Followed by F/S. (FY1991 Overseas Survey) CORPOSANA has been preparing part of the proposals in cooperation with Municipality of Asuncion & Ministry of Public Works.			
4.REFERENCE NO.		(US\$1=650G)	2)						
5.TYPE OF STUDY	M/P+(F/S)	3.CONTENTES OF MAJOR PROJECT(S)							
6.COUNTERPART AGENCY	CORPOSANA	1)Development plan 1986-1995 Combination of river improvement, drainage facilities and discharge control for three rivers (Ytay, Mburicao and Lambre) 2)Development plan 1996-2005 Combination of river improvement and drainage facilities for the rest of rivers							
7.OBJECTIVES OF STUDY	Year 2005 as the target, formation of flood control project covering 26 river basins of the Asuncion City								
8.DATE OF S/W	Feb.1985	4.CONDITIONS AND DEVELOPMENT IMPACTS							
9.CONSULTANT(S)	CTI Engineering Co., Ltd.	See next page.							
10.STUDY TEAM	No.of Members 9 Period Jul.1985-Jan.1987(19 months)	5.TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS				
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> <tr> <td style="text-align: center;">100.86</td> <td style="text-align: center;">44.47</td> <td style="text-align: center;">56.39</td> </tr> </table>				Total M/M		Japan	Field	100.86
Total M/M	Japan	Field							
100.86	44.47	56.39							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	survey				3.PRINCIPAL SOURCE OF INFORMATION				
12.EXPENDITURE					①②				
	Total 314,473 (¥000)								
	Contracted 273,592								

和名 アスンシオン市雨水排水施設整備計画

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

PROJECT SUMMARY (M/P+F/S)

CSA PRY/S 202B/86

Compiled Mar.1990
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Paraguay	1.SITE OR AREA		Ytay and Mburicao Rivers of Asuncion City		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2.NAME OF STUDY	Storm Drainage System Improvement Project in Asuncion City	2.PROJECT COST		Total Cost	Local Cost		
3.SECTOR	Social Infrastructures/River & Erosion Control			1) 42,308	22,154	20,154	
4.REFERENCE NO.				(US\$1,000)			
5.TYPE OF STUDY	(M/P)+F/S			2)			
6.COUNTERPART AGENCY	CORPOSANA	3.CONTENTS OF MAJOR PROJECT(S)		3)			
7.OBJECTIVES OF STUDY	Year 2005 as the target, formation of flood control project covering 26 river basins of the Asuncion City	River Improvement: 21.2 km (Ytay 15.6km Mburicao 5.6km) Retarding Basin at the down stream of Ytay river (one) (350,000) Construction of Appurtenant Facilities (Bank Protection (97,000 square meters), Falling Works (32 units), Riverbed Protection (7,800 square meters) and Bridge (48 units)) Extension of Drainage Facilities (18.95km) and Appurtenant Facilities				(Description) Because of the limited supply of budgetary resources, higher priority has been given to water supply projects over storm drainage projects. The municipal government of Asuncion and the Public Corporation of Water Supply and Sewerage are hoping Japanese assistance on the first stage project (Mburicao - Ytay). (FY1991 Overseas Survey) No additional information.	
8.DATE OF S/W	Feb.1985	Imp. Period: .1988-.1993					
9.CONSULTANT(S)	CTI Engineering Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 11.60 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)		
10.STUDY TEAM	No.of Members 9 Period Jul.1985-Jan.1987 (19 months)	Conditions and Development Impacts: With 1993 as the target year, direct damage caused by flood and indirect damage caused by traffic congestion are taken into consideration. Foreign currency portion of the construction cost is a 30-year loan including grace period, with an interest rate of 3.5% and the 10-year repayment period.					
	Total M/M Japan Field					2.MAJOR REASONS FOR PRESENT STATUS	
	100.86 44.47 56.39						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER		1) A seminar on infiltration facilities for the counterparts. 2) OJT on the repair of the rain gauge and flow meter and the processing of observation date.		3.PRINCIPAL SOURCE OF INFORMATION ①②	
12.EXPENDITURE							
	Total 314,473 (¥'000)						
	Contracted 273,592						

和名 アスンシオン市雨水排水施設整備計画

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

PROJECT SUMMARY (M/P)

CSA PRY/A 102/87

Compiled Mar.1990

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS																
1.COUNTRY	Paraguay	1.SITE OR AREA	Central Part of Itapua District located in the South of this country (Population 110,000, Area 510,000, latitude 26°35" to 27°20" S and Longitude 55°19" to 56°15" W)			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued														
2.NAME OF STUDY	Proyecto de aumento de la produccion de granos principales en el area central del departamento de Itapua	2.PROJECT COST						<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">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></td> <td style="text-align: center;">80,200</td> <td style="text-align: center;">32,313</td> <td style="text-align: center;">47,887</td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td colspan="3">US\$1=550Gs in Aug.1987</td> </tr> </table>			(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost			80,200	32,313	47,887	
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost																	
		80,200	32,313	47,887																	
	2)	US\$1=550Gs in Aug.1987																			
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td>Seeds supply, Study and extension of agriculture,</td> <td style="text-align: right;">856 km</td> </tr> <tr> <td>Road</td> <td style="text-align: right;">84,000 ha</td> </tr> <tr> <td>Agricultural land reclamation</td> <td style="text-align: right;">117,600 ha</td> </tr> <tr> <td>Soil conservation</td> <td style="text-align: right;">24,700 ha</td> </tr> <tr> <td>Afforestation</td> <td style="text-align: right;">5,580 ha</td> </tr> <tr> <td>Paddy irrigation</td> <td style="text-align: right;">14 km</td> </tr> <tr> <td>Stock facilities, Establishment of fund to increase main grains production, Improvement of small farmers, Electrification of rural area</td> <td style="text-align: right;">Drainage canal</td> </tr> </table>			Seeds supply, Study and extension of agriculture,	856 km	Road	84,000 ha	Agricultural land reclamation	117,600 ha	Soil conservation	24,700 ha	Afforestation	5,580 ha	Paddy irrigation	14 km	Stock facilities, Establishment of fund to increase main grains production, Improvement of small farmers, Electrification of rural area	Drainage canal	(Description) Based on the findings of the master plan study, the following technical cooperation project was commenced by JICA for the duration of five years (June 1990 - May 1995). Main Grain Crops Production Project: The project aims to increase the production of soybean, wheat and other major grains, and will conduct research and development on the following areas and support the related training program. 1) Breeding and management of improved varieties 2) Development of suitable technology to multiply certified seeds 3) Improvement of cropping systems for soil conservation (FY1991 Overseas Survey) No additional information	
Seeds supply, Study and extension of agriculture,	856 km																				
Road	84,000 ha																				
Agricultural land reclamation	117,600 ha																				
Soil conservation	24,700 ha																				
Afforestation	5,580 ha																				
Paddy irrigation	14 km																				
Stock facilities, Establishment of fund to increase main grains production, Improvement of small farmers, Electrification of rural area	Drainage canal																				
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	Thanks to this project it is expected that all kinds of main grains will double in production in comparison to current situation. Concretely, total grain production is anticipated 650,000 ton (it consists of soybean 420,000 ton, wheat 180,000 ton, water field rice 50,000 ton). In addition, cotton production is considered to reach 60,000 ton as the effect of this project.																		
5.TYPE OF STUDY	M/P	7.OBJECTIVES OF STUDY			2.MAJOR REASONS FOR PRESENT STATUS																
6.COUNTERPART AGENCY	Ministry of Agriculture and Livestock	8.DATE OF S/W	3.PRINCIPAL SOURCE OF INFORMATION ①②																		
9.CONSULTANT(S)	Japan Agricultural Land Development Agency	10.STUDY TEAM			5.TECHNICAL TRANSFER 1.Acceptance of trainees for Training Programme 2.Co-operative work to make report.																
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Data Analysis of LANDSAT Imagery	12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">462,418 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">443,314</td> </tr> </table>				Total	462,418 (¥'000)	Contracted	443,314											
Total	462,418 (¥'000)																				
Contracted	443,314																				

和名 イタプア県中部地域主要穀物増産計画

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

PROJECT SUMMARY (F/S)

CSA PRY/S 303/88

Compiled Mar.1990
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT					
1.COUNTRY	Paraguay	1.SITE OR AREA	Asuncion metropolitan area			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY	Transportation Facilities Improvement Project of the Asuncion Metropolitan Area	2.PROJECT COST	(US\$1,000)	1) 88,000	Local Cost 39,500			Foreign Cost 48,500			
3.SECTOR	Transportation/Urban Transportation	3.CONTENTES OF MAJOR PROJECT(S)	-Widening and improvement of Allarra Av. (11.7 km) -Improvement of R. Clancia (2.5 km) -Widening and improvement of M. Lynch (5.4km) -Extension of Espana Av. (0.5 km) -Improvement of the Minicentro -Construction of a bus terminal				(Description) - After the completion of the feasibility study, the political situation become fluid because of the coup d'etat in Feb. 1989, and the mayoralty election in May 1991, among others. The proposals of the feasibility study and the application for the Japanese financing have been under review, but no specific decision has been made to date. - The introduction of car-free suggested as one of measures for the roads the Centro has been implemented once a week since June 1991. - The improvement of M.Lynch is scheduled to be implemented by the Ministry of Public works financed by the World Bank within 5 years.				
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS							Feasibility: Yes	EIRR1) 19.20	FIRR1)
5.TYPE OF STUDY	F/S								EIRR2)	FIRR2)	
6.COUNTERPART AGENCY	Municipality of Asuncion								EIRR3)	FIRR3)	
7.OBJECTIVES OF STUDY	The establishment of the principal road by the corresponding road and the setting up of public transportation by the establishment of bus terminal.										
8.DATE OF S/W	May.1987	Imp. Period: .1990-.2000									
9.CONSULTANT(S)	Yachiyo Engineering Co., Ltd.					2.MAJOR REASONS FOR PRESENT STATUS					
10.STUDY TEAM	No.of Members 8 Period Sep.1987-Oct.1988(13 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">46.50</td> <td style="text-align: center;">10.50</td> <td style="text-align: center;">36.00</td> </tr> </table>	Total M/M	Japan	Field	46.50			10.50	36.00		
Total M/M	Japan	Field									
46.50	10.50	36.00									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	- Topographic survey - Geological survey					3.PRINCIPAL SOURCE OF INFORMATION					
12.EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">171,507 (¥'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">152,275</td> </tr> </table>	Total	171,507 (¥'000)	Contracted	152,275			1)OJT on computer software 2)Acceptance of trainees on urban transport (JICA Counterpart Training Program)			
Total	171,507 (¥'000)										
Contracted	152,275										

和名 アスンシオン首都圏都市交通施設整備計画

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

PROJECT SUMMARY (M/P)

CSA PRY/S 102/89

Compiled Mar.1991
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS				
1.COUNTRY	Paraguay	1.SITE OR AREA	Lake Ypacarai and its basin		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued			
2.NAME OF STUDY	Water Pollution Control Plan for the Lake Ypacarai and its Basin	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) The Government of Paraguay accepted the recommendations of the Study and now is preparing the establishment of the "Basin Management Authority", and requested the government of Japan the dispatch of an environment policy expert. An expert in solid wastes management was dispatched by JICA to Asuncion City Government. As of 1992, a related Paraguayan Government officer reported that the M/P would be revised by American consultants, as pre-requisite for implementation. However, this information could not be confirmed. (FY1992 Overseas Survey) Waiting for the answer			
3.SECTOR	Administration/Environmental Problems		(US\$1,000)	1)	2)				
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)							
5.TYPE OF STUDY	M/P	Immediately 1. Construction of waste water treatment systems (for industrial plants and tourist installations) 2. Appropriate treatment of sludge and garbage in river beds and lake area 3. Construction of lakeshore vegetation							
6.COUNTERPART AGENCY	Technical Planning Secretariat Environmental Study Dept.	Within 2-3 years 4. Construction of sludge treatment plant 5. Rehabilitation of existing sewage treatment plants 6. Forest conservation and management 7. Control of erosion from roads, quarries and river banks							
7.OBJECTIVES OF STUDY	Study on Water Pollution Conditions in Lake Ypacarai and formulation of Water Pollution Control Plan	Within 5-10 years 8. Land use zoning, 9. Construction of sewage treatment plants 10. Afforestation, 11. Soil erosion control in cultivated land							
8.DATE OF S/W	Feb.1987	After detailed F/S 12. Raw sewage collection system by vacuum trucks 13. Construction of flood control channel (Yuquyry River) 14. Construction of contact oxidation ditch (urban rivers) 15. Installation of a sluice at the mouth of the Salado River							
9.CONSULTANT(S)	Kokusai Kogyo Co., Ltd. CTI Engineering Co., Ltd.	4.CONDITIONS AND DEVELOPMENT IMPACTS							
10.STUDY TEAM	No.of Members 13 Period Dec.1987-Aug.1989(21 months)	Water quality conservation measures are to be based on the following five items: 1. Basic investigation and research 2. Application of water quality improvement techniques 3. Formulation of environmental protection legislation(including new tax regulations) 4. Education on water quality conservation 5. Establishment of an independent "Lake Ypacarai Basin Management Authority"							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	- River Cross, Lake Bottom Survey - Aerophotography	Expected impacts of the pollution control plan: 1. Reduction in water potabilization costs 2. Reduction in the incidence of water transmitted diseases and the associated medical treatment costs 3. Reduction in the incidence of cattle diseases and the resulting increase in the market value of cattle 4. Increase in farmer's income resulting from reduced erosion and expanded irrigation 5. Employment generation and increased income in expanded recreation areas 6. Increased availability of firewood 7. Land value appreciation around the water area 8. Environmental conservation for a safe and comfortable life							
12.EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">385,777 (Y'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">264,905</td> </tr> </table>	Total	385,777 (Y'000)	Contracted	264,905	5.TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS
Total	385,777 (Y'000)								
Contracted	264,905								
		- Technical transfer in the technique of water quality analysis for monitoring of water pollution - Methods of evaluation of water quality improvement technique			3.PRINCIPAL SOURCE OF INFORMATION				
					①				

和名 イバカライ湖流域水質汚濁対策計画

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