

# PROJECT SUMMARY (F/S)

Compiled Mar. 1995  
Revised Mar. 1996

CSA PAN/S 307/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																										
1. COUNTRY	Panama	1. SITE OR AREA	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Canal Zone</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td>2. PROJECT COST (US\$1,000)</td> <td>1) 5,400,000</td> <td>Total Cost</td> <td>Local Cost</td> <td>Foreign Cost</td> <td>5,400,000</td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Canal Zone						2. PROJECT COST (US\$1,000)	1) 5,400,000	Total Cost	Local Cost	Foreign Cost	5,400,000		2)						3)					1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
Canal Zone																																
2. PROJECT COST (US\$1,000)	1) 5,400,000	Total Cost	Local Cost	Foreign Cost	5,400,000																											
	2)																															
	3)																															
2. NAME OF STUDY	Study of Alternatives to the Panama Canal	3. CONTENTS OF MAJOR PROJECT(S)	(Description) By the Final Report of the commission (Sept 1993), existing canal will be available until 2020 and the improved canal by this project will be available after 2020. The project shall be completed by 2020. The canal will be transferred from USA to the Republic of Panama in December 31, 1999. This project has been suspended and the Commission was closed after completing the study. (F/1595 Domestic Survey) No additional information.																													
3. SECTOR	Transportation/Marine Transportation & Ships	Economic and Impacts Study (A) - To construct the third locks at both entrances capable of handling ships of a design of 150,000 DWT. - To prepare approach channels from the third locks to the present Canal. To widen the Gaillard Cut. Engineering and Cost Estimate Study (B) Most feasible alternative reported by the Commission is as follows. - construction with one lane lock for 150,000DWT ship parallel to the existing locks. - two lane canal except one lane on Culebra Cut. - The alternative project shall be constructed by the year 2020. - Sea level canals are estimated not feasible.																														
4. REFERENCE NO.		8. DATE OF S/W	Imp. Period: 2005. -2020.		2. MAJOR REASONS FOR PRESENT STATUS																											
5. TYPE OF STUDY	F/S	9. CONSULTANT(S)	Mitsubishi Research Institute Yachiyo Engineering Co., Ltd.																													
6. COUNTERPART AGENCY	Commission for the Study of Alternatives to the Panama Canal	4. FEASIBILITY AND ITS ASSUMPTIONS	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">EIRR1) 85.00</td> <td style="width: 15%;">EIRR2)</td> <td style="width: 15%;">EIRR3)</td> <td style="width: 15%;">EIRR1) 15.80</td> <td style="width: 15%;">EIRR2)</td> <td style="width: 15%;">EIRR3)</td> </tr> <tr> <td>Yes/No</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		Feasibility:	EIRR1) 85.00	EIRR2)	EIRR3)	EIRR1) 15.80	EIRR2)	EIRR3)	Yes/No																				
Feasibility:	EIRR1) 85.00	EIRR2)	EIRR3)	EIRR1) 15.80	EIRR2)	EIRR3)																										
Yes/No																																
7. OBJECTIVES OF STUDY	Economic analysis and impact analysis on the alternatives prescreened by the Can. Study of 47 canal alternatives on engineering and cost estimate for screenings.	Conditions and Development Impacts: A: Additional investigation will be required in the areas of impacts on the environment and of natural conditions and toll structure. The feasibility study have to be updated to take into account the world trade picture at the time of implementation. B: No comments on the project proprietor and resource of fund. Progressive impacts will be expected on the world marine transportation and also on the Republic of Panama.		3. PRINCIPAL SOURCE OF INFORMATION ①																												
10. STUDY TEAM	No. of Members 30 Period Jul. 1991-Aug. 1994 (38 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td>119.75</td> <td>91.99</td> <td>27.76</td> </tr> </table>	Total M/M	Japan			Field	119.75	91.99	27.76	5. TECHNICAL TRANSFER																						
Total M/M	Japan	Field																														
119.75	91.99	27.76																														
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	N/A	12. EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">846,574 (¥000)</td> <td colspan="4" rowspan="2">not included in this study</td> </tr> <tr> <td>Contracted</td> <td>428,972</td> </tr> </table>		Total	846,574 (¥000)	not included in this study				Contracted	428,972																				
Total	846,574 (¥000)	not included in this study																														
Contracted	428,972																															

和名 パナマ運河代替案調査

# PROJECT SUMMARY (F/S)

Compiled Mar.1995  
Revised Mar.1996

CSA PAN/S 308/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Panama	1. SITE OR AREA	Area between Panama and Colon			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Improvement of Panama-Colon Highway	2. PROJECT COST	1) Total Cost (US\$1,000)	139,641	Local Cost 63,169	Foreign Cost 75,472	(Description) Since the final report was officially presented to the Panama Government in June '94, the project shall be in procedure concretely for securing fund on this project, detailed design execution including Japanese government aid.  (FY1995 Domestic Survey) The Government of Panama signed on an agreement with FYSCA, a Panamanian Representative of a Mexican Contractor, and approved the construction works of the Panama-Colon express highway. Based on this agreement, the construction has been commenced by means of BOT Process.
3. SECTOR	Transportation/Road	3. CONTENTS OF MAJOR PROJECT(S)	2) 264,120	101,324	162,796		
4. REFERENCE NO.			3)				
5. TYPE OF STUDY	F/S						
6. COUNTERPART AGENCY	Ministry of Public works						
7. OBJECTIVES OF STUDY	To formulate a Masterplan for arterial road development between Panama and Colon To carry out a Feasibility Study on selected projects of the Masterplan						
8. DATE OF S/W	1992/9	Imp. Period:	1995. -1999.	1995. -2004.			
9. CONSULTANT(S)	Yachiyo Engineering Co., Ltd. Chodai Co., Ltd.	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 41.00 EIRR2) 31.10 EIRR3)	FIRR1) 7.80 FIRR2) FIRR3)		
10. STUDY TEAM	No. of Members 13 Period Dec.1992-Mar.1994 (16 months)	Conditions and Development Impacts: 1) Vehicle operating cost saving 2) Reduction of traffic accident 3) Impact for regional development in Colon 4) Creation of job opportunity by Highway construction 5) To secure an alternative route of Panama Canal					
	Total M/M      Japan      Field 59.18            24.96            34.22						
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Fields Survey (monumentation, eignalization, horizontal ground control survey, etc), Boring						
12. EXPENDITURE	Total 320,726 (¥000) Contracted 305,043	5. TECHNICAL TRANSFER	The study showed the environment impact study example.				
						2. MAJOR REASONS FOR PRESENT STATUS	1) Just immediately after presentation of the final report 2) Waiting the new government policy starting in Sept. '94
						3. PRINCIPAL SOURCE OF INFORMATION	①

和名 パナマ-コロン間高速道路計画調査

(F/S,D/D)

# PROJECT SUMMARY (Other)

Compiled Mar. 1990  
Revised Mar. 1996

CSA PRY/S 601/76

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  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border-bottom: none;">2. PROJECT COST</td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> </tr> <tr> <td style="border-bottom: none;">(US\$1,000)</td> <td style="border-bottom: none;">1) 2)</td> <td style="text-align: center;">6,257</td> <td style="text-align: center;">1,870</td> <td style="text-align: center;">4,387</td> </tr> </table>			2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 2)	6,257	1,870	4,387	I. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. PROJECT COST		Total Cost				Local Cost	Foreign Cost										
(US\$1,000)	1) 2)	6,257	1,870	4,387													
2. NAME OF STUDY La Colmena Highway (follow-up)		3. CONTENTS OF MAJOR PROJECT(S) Following the F/S undertaken by a USA consulting firm on the road between Carapeguas 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)			(Description) Sept. 1977 OECF loan agreement (1,850 million yen) Apr. 1979 Construction commenced Apr. 1982 Construction completed  *Contents of OECF loan The implementation of liner reformation and pavement of the road with total length of 28.5km.  (FY1994 Domestic Survey) In 1994, although there is no serious damage on the paved road by the project, there are some places which need to be repaired. Now the main roads have been reformed nationwide and continuously, therefore, there is a possibility to be the target of reformation of this activity.  (FY1995 Domestic Survey) No additional information.  (FY1995 Overseas Survey) Reinvestigation works for the route along the highway was completed in 1995. It has been concluded that this route is connecting with major agricultural and livestock raising areas of the country and make it easy to supply foodstuff to the capital city of Asuncion. And also, it is expected to encourage the orchard industry at the area along the highway. It is also considering to extend the highway further down south from the capital city.												
3. SECTOR Transportation/Road							4. CONDITIONS AND DEVELOPMENT IMPACTS The project will enable the closer integration of 40-year-old La Colmena settlement communities to metropolitan Asuncion.										
4. REFERENCE NO.		5. TECHNICAL TRANSFER			2. MAJOR REASONS FOR PRESENT STATUS												
5. TYPE OF STUDY Other																	
6. COUNTERPART AGENCY Dept. of Road, Ministry of Public Works and Communications		6. EXPENDITURE			3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ④												
7. OBJECTIVES OF STUDY Review of the F/S																	
8. DATE OF S/W /		7. TOTAL PROJECT COST															
9. CONSULTANT(S) Central Consultant, Inc.																	
10. STUDY TEAM No. of Members 2 Period Sep. 1976-Jan. 1977 (4 months)  Total M/M      Japan      Field		8. TOTAL PROJECT COST															
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY None																	
12. EXPENDITURE Total 5,872 (¥000) Contracted 5,770																	

# PROJECT SUMMARY (F/S)

Compiled Mar. 1986  
Revised Mar. 1996

CSA PRY/S 301/78

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Paraguay	1. SITE OR AREA				I. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY Fleet Expansion Project		2. PROJECT COST				(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	
		Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    36,870    2,312    34,557 US\$1=200Yen=126G    2)    53,652    1,857    51,795 3)					
3. SECTOR Transportation/Marine    Transportation & Ships		3. CONTENTS 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		1) Ocean-going vessels (cereals, general and container cargo) one 6,000MT-ship and two 1,500MT-ships 2) Dry-cargo barge systems (general cargo, cereals, cement, etc.) 1) 20 barges (1365MT), 2 pushers (1,200PS) and 1 pusher (300PS) 2) 10 barges (800MT) 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 SAV		Imp. Period:					
9. CONSULTANT(S)		4 FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes		EIRR1)    FIRR1)    4.70 EIRR2)    FIRR2) EIRR3)    FIRR3)	
10. STUDY TEAM		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. [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 benefit consists of fleet revenues and the project cost but sufficiently feasible as part of the projects, and has the following advantages: 1) Facilitation of shipping product from Paranaguá 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					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		No. of Members    7 Period    Mar. 1978-Oct. 1978 (7 months)  Total M/M    Japan    Field				2. MAJOR REASONS FOR PRESENT STATUS	
12. EXPENDITURE		5. TECHNICAL TRANSFER				3. PRINCIPAL SOURCE OF INFORMATION	
Total    18,318 (¥'000)						①②④	
Contracted							

船名 船舶増強計画

[F/S,D/D]

# PROJECT SUMMARY (F/S)

Compiled Mar.1986  
Revised Mar.1996

CSA PRY/S 302/79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																					
1. COUNTRY	Paraguay	1. SITE OR AREA	24km west of Ciudad Del Este which is situated on the border with Brazil			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																				
2. NAME OF STUDY	New Airport Construction Project in Ciudad Presidente Stroessner	2. PROJECT COST	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">1)</td> <td style="width: 10%; text-align: center;">Total Cost</td> <td style="width: 10%; text-align: center;">Local Cost</td> <td style="width: 10%; text-align: center;">Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">77,793</td> <td style="text-align: center;">22,325</td> <td style="text-align: center;">55,468</td> </tr> <tr> <td>(US\$1=220Yen=140gua.)</td> <td style="text-align: center;">2)</td> <td style="text-align: center;">11,015</td> <td style="text-align: center;">3,201</td> <td style="text-align: center;">7,814</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)	1)	77,793	22,325	55,468	(US\$1=220Yen=140gua.)	2)	11,015	3,201	7,814		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  (FY1993 Overseas Survey) Due to heavy rainfall, the construction period has been postponed from August,1993 to October,1994. Construction works of the signal tower and settlement of the antenna have been completed on March,1993.  (FY1994 Domestic Survey) New airport facilities was completed their constructions in Oct.1993. According to the survey, the newly completed airport has not been made operational for international flights due to the delay in getting approval from the gov't and has currently been served by a domestic flight per day.	
	1)	Total Cost	Local Cost	Foreign Cost																							
(US\$1,000)	1)	77,793	22,325	55,468																							
(US\$1=220Yen=140gua.)	2)	11,015	3,201	7,814																							
	3)																										
3. SECTOR	Transportation/Air Transportation & Airport	3. CONTENTS OF MAJOR PROJECT(S)	The new airport will be constructed in two stages.  1) Airfield facilities Runway(3,400m x 45m); taxiways (161m x 23m x 2); passenger apron (42,443 sq.m in 1994, 55,107 in 2004); cargo apron (6,831 sq.m in 2004); general aviation apron (52,500 sq.m in 1994, 70,000 in 2004)  2) Buildings Passenger terminal (8,100 sq.m in 1994, 14,200 in 2004); cargo terminal (1,800 sq.m in 1994, 5,100 in 2004)  3) Airport equipment Aeronautical telecommunications 1 set; radio navigational aids (ILS Category I, VOR/DME, NDB); airfield lighting 1 set; airport surveillance radar 1 set; meteorological service 1 set  4) Power supply and fuel supply facilities  *Cost 1) is for Stage I construction, and 2) for Stage II construction.																								
4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 11.00 EIRR2) EIRR3)	FIRR1) 3.80 FIRR2) 5.60 FIRR3)	2. MAJOR REASONS FOR PRESENT STATUS  1) Effectiveness 2) High priority																					
5. TYPE OF STUDY	F/S	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: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">Dom.</td> <td style="width: 10%; text-align: center;">Int'l</td> <td style="width: 10%; text-align: center;">Cargo(tons)</td> <td style="width: 10%; text-align: center;">Dom.</td> <td style="width: 10%; text-align: center;">Int'l</td> <td style="width: 10%; text-align: center;">Scheduled Aircraft Movements</td> </tr> <tr> <td>1994</td> <td style="text-align: center;">214</td> <td style="text-align: center;">375</td> <td style="text-align: center;">1,978.8</td> <td style="text-align: center;">3,785.2</td> <td style="text-align: center;">-</td> <td style="text-align: center;">9,840</td> </tr> <tr> <td>2004</td> <td style="text-align: center;">394</td> <td style="text-align: center;">612.9</td> <td style="text-align: center;">3,020.4</td> <td style="text-align: center;">5,371.8</td> <td style="text-align: center;">-</td> <td style="text-align: center;">11,120</td> </tr> </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.			Dom.			Int'l	Cargo(tons)	Dom.	Int'l	Scheduled Aircraft Movements	1994	214	375	1,978.8	3,785.2	-	9,840	2004	394	612.9	3,020.4	5,371.8	-	11,120	
	Dom.	Int'l	Cargo(tons)	Dom.	Int'l	Scheduled Aircraft Movements																					
1994	214	375	1,978.8	3,785.2	-	9,840																					
2004	394	612.9	3,020.4	5,371.8	-	11,120																					
6. COUNTERPART AGENCY	Civil Aviation Administration (ANAC)	8. DATE OF S/W	1978/12		5. TECHNICAL TRANSFER 1) ODT on data collection and analysis 2) Acceptance of trainees (USCA counterpart training program)		3. PRINCIPAL SOURCE OF INFORMATION ①, ② ANAC																				
7. OBJECTIVES OF STUDY	1) To examine technical, economic and financial feasibility of project 2) Technology transfer to counterpart officials	9. CONSULTANT(S)	Japan Airport Consultants, Inc.																								
10. STUDY TEAM	No. of Members 11 Period Apr. 1979-Feb. 1980 (10 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">Total M/M</td> <td style="width: 33%; text-align: center;">Japan</td> <td style="width: 33%; text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">44.33</td> <td style="text-align: center;">12.00</td> <td style="text-align: center;">32.33</td> </tr> </table>	Total M/M	Japan	Field	44.33	12.00	32.33																				
Total M/M	Japan	Field																									
44.33	12.00	32.33																									
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological survey (1,092,000 yen)																										
12. EXPENDITURE	Total 96,378 (¥000) Contracted 84,840																										

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

(F/S,D/D)

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1996

CSA PRY/A 301/82

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			I. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Proyecto de desarrollo agricola en la zona noroeste del lago Ypoa	2. PROJECT COST	1) (US\$1,000)	Total Cost 70,633	Local Cost 33,222	Foreign Cost 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.  (FY1994 Domestic Survey) No additional information.  (FY1995 Domestic Survey) Paraguayan organization in charge considers this project as for discontinued or cancelled due to the difficulty to get the fund.  (FY1995 Overseas Survey) Reinvestigation and the official notice of the 'Lake Ypoa National Park' have been carried out based on the regulations of RAMSAR Treaty signed on 1994. In order to develop this area successfully, it is necessary to fulfil almost all of the public opinions concerned, to examine the land owners or representatives carefully, and to ask the participation of the local organizations from the planning stage. For the implementation of the F/S, it should be made arrangements and negotiations among the Government, the financing authorities and the local organizations.
3. SECTOR	Agriculture (Agriculture in) General	3. CONTENTS OF MAJOR PROJECTS	2) by 1981 price	3)			
4. REFERENCE NO.		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					
5. TYPE OF STUDY	F/S						
6. COUNTERPART AGENCY	Instituto de bienestar rural	7. OBJECTIVES OF STUDY	Formulation of agriculture and rural development plan for colonization				
8. DATE OF S/W	1980/3	Imp. Period:	1983. -1994.				
9. CONSULTANT(S)	Nagai Engineering Co., Ltd.	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 12.90 EIRR2) EIRR3)	EIRR1) EIRR2) EIRR3)	2. MAJOR REASONS FOR PRESENT STATUS	
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					
Total M/M                      Japan                      Field 66.45                              37.80                      28.65		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None				
12. EXPENDITURE	Total 347,604 (¥000) Contracted 315,928	5. TECHNICAL TRANSFER	1) Training of counterparts in Japan 2) Furnishing of the equipment and guidance of its use 3) JOT				
		3. PRINCIPAL SOURCE OF INFORMATION	①, ②				

和名 日本と湖北西部農業開発計画

[F/S,D/D]

# PROJECT SUMMARY (Basic Study)

Compiled Mar.1990  
Revised Mar.1996

CSA PRY/A 501/83

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 Amanby, Concepcion, San Pedro and Canedytu								
2. NAME OF STUDY	Forest Inventory in the Northeastern Region	2. PROJECT COST				(US\$1,000)	Total Cost	Local Cost	Foreign Cost		
3. SECTOR	Forestry/Forestry & Forest Conservation	3. CONTENTS OF MAJOR PROJECT(S)	1)	(Description) Afforestation projects are being encouraged particularly among the cattle ranchers. Because of the serious deforestation reported by the study.  (FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information.  (FY1995 Overseas Survey) The results of this survey work are utilized for certain purposes at the limited area. Especially, the data of retaining volume of forestal resources are very useful and utilized to make administrating, managing and utilizing plans for the area of targetted forest.							
4. REFERENCE NO.		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%. 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									
5. TYPE OF STUDY	Basic Study	7. OBJECTIVES OF STUDY	To contribute the sustainable development by formulating forest management plan to counter the deforestation by unplanned irregular cutting.								
6. COUNTERPART AGENCY	National Forest Service The Republic of Paraguay	8. DATE OF S/W				1980/6  4. CONDITIONS AND DEVELOPMENT IMPACTS  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 outover land and use of unknown species.					
9. CONSULTANT(S)	Japan Forest Technical Association	10. STUDY TEAM	2. MAJOR REASONS FOR PRESENT STATUS  1. It is necessary to establish afforestation technique 2. It is impossible to carry out afforestation by local funds.								
No. of Members 29 Period Jul.1980-Feb.1984(44 months)  <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Total M/M</td> <td style="width: 30%;">Japan</td> <td style="width: 30%;">Field</td> </tr> <tr> <td>183.00</td> <td>132.00</td> <td>51.00</td> </tr> </table>		Total M/M				Japan	Field	183.00	132.00	51.00	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY
Total M/M	Japan	Field									
183.00	132.00	51.00									
Aerial Photography		12. EXPENDITURE									
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Total</td> <td style="width: 30%;">524,662 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>500,167</td> </tr> </table>		Total	524,662 (¥000)	Contracted	500,167	5. TECHNICAL TRANSFER					
Total	524,662 (¥000)										
Contracted	500,167										
		- Trainee acceptance - OJT of forest survey - Cooperate working of guideline of forestry development plan									

和名 北東部林業資源調査

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

Compiled Mar. 1986  
Revised Mar. 1996

CSA P/YS 201B/83

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Paraguay	1. SITE OR AREA		M/P for the entire country: F/S for Asuncion Area, Concepcion, Hohenu, 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"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY National Telecommunications & Broadcasts Development Project		2. PROJECT COST (US\$1,000)		M/P 1) 907,443 Local Cost	177,043 Foreign Cost	(Description) Apr. 1982 OCFP loan pledged (9,250 million yen) Nov. 1985 OCFP 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 OCFP loan, although the effort was interrupted by the coup d'etat in 1982. ATELCO has signed a provisional contract in Nov. 1991 with Siemens for the installation of 10,000 telephones, and is formulating a telephone network expansion plan in cooperation with ITU.  (FY1991 Overseas Survey) No additional information.  (FY1995 Domestic Survey) No additional information. (Data are not available due to the person in charge had been shifted to the other place.)  (FY1995 Overseas Survey) This project is consisted of various sub-projects. The implementation of the main portion has been completed and a remained part is now processing and the other remained part is suspended. To develop and to expand the service area of radio regulation/monitoring system and the standard of registration of the radio listeners seem to be possible at certain range, however it is not enough to fulfil the demands. Conformation of the administrative organization for establishment of the state-owned educational television is not implemented due to lack of various resources. Training project is carrying on by IFT in order to supply the qualified professionals with certain necessary technological level for the increasing necessities.	
3. SECTOR Communications & B/(Comms. & Broad. in) General		US\$1=230Yen=126G	F/S 1) 12,188	2,783	630,400		
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECTS		M/P (1983-97) 1) Domestic telecommunications: 336,000 lines of subscriber telephones/ 3,394 public telephones/ 3,060 rural telephones/ digitized local exchanges/ 14 optical fiber systems/ 10 microwave routes/ 7 television transmission routes, etc. 2) International telecommunications International circuits/ modification of the Aregus earth station/ international subscriber dialling/ a second earth station, etc. 3) Development of the Radio Regulation and Monitoring System 4) Establishment of a National Educational Television System 5) Personnel development  F/S (Stage I: 1983-87) 1) Introduction of an international subscriber dialling system in the Asuncion area 2) Introduction of a digital switching system in the Asuncion area (11 exchanges by the end of 1997) 3) Consolidation of rural telephone systems in five areas (Concepcion, Hohenu, San Pedro, Villarrica, Carapegua) by 8-channel multiple access subscriber (MAS) radio systems			
5. TYPE OF STUDY M/P+F/S		6. COUNTERPART AGENCY ATELCO					
8. DATE OF SAV 1980/9		Imp. Period: 1982. -1988.		4. FEASIBILITY AND ITS ASSUMPTIONS			
9. CONSULTANTS Nippon Telegraph & Telephone Corporation Kokusai Denshin Denwa Co. Ltd. Japan Telecom. Eng. and Consulting Service		Feasibility: Yes		ERR1) 27.86	ERR2) 21.68	2. MAJOR REASONS FOR PRESENT STATUS	
10. STUDY TEAM No. of Members 31 Period Jul. 1981-Jun. 1983 (24 months)  Total M/M Japan Field		Conditions and Development Impacts: [Planning Conditions] 1) Financial analysis covers only domestic and international telecommunications 2) Loan agreements every three years, with 3-year grace period; opportunity cost of capital 12%; depreciation period 20 years; residual value zero 3) FIRR: Domestic Telecom. 24.6%, Int'l Telecom. 45.4%, Combined 27.4% 4) EIRR: Domestic Telecom. 36.7%, Int'l Telecom. 47.1%, Combined 38.1% (Development Impacts) 1) Domestic telecom.: Efficiency in government and business operations; more competitive agricultural products in domestic and export markets; improved standard of living; etc. 2) International telecom.: Contribution to diplomatic relations and cultural exchange; narrowing information gaps, etc. 3) Public 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.		3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ④			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY None		5. TECHNICAL TRANSFER		1) Dispatch of survey mission and experts 2) Accept the JOCEV in Japan 3) Dispatch of JOCEV members			
12. EXPENDITURE Total 220,326 (Y000) Contracted 98,239							

和名 電気通信拡充計画 (電気通信・放送拡充計画のF/S)

(M/P+F/S)



# PROJECT SUMMARY (M/P)

Compiled Mar.1990  
Revised Mar.1996

CSA PRY/A 101/84

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 Farana 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' 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	Total Cost	Local Cost	Foreign Cost	(Description) This Master Plan has been suspended because of the delay of the construction of Yacyreta Dam. (FY 1991 Overseas Survey) No additional information. (FY1993 Overseas Survey) Farmers resided at the site are migrating and/or trying to get new area to live under the guidance of the authority concerned. It is planned to commence to pour water into the dam at the fiscal year of 1994 or 1995. Still feasibility study for the plan how to utilize the dam water is needed. At the time of JICA's development survey, there were no participation of beneficial inhabitants. However, in future, it will be recommended to let these people participate as circumstances will be changed. (Remarks) According to the information by overseas survey in 1992, INSTITUTO DE BIENESTAR RURAL purchased the farmland(3,000ha) adjacent area to AYOLAS and commenced settlement of small farmers. This plan will be expanding in the future. (FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) The environmental effects of the dam construction for surrounding area are now under investigation. The data obtained by this M/P are a little old, however, they are still very useful. In order to study the agriculture development in case of the paddy cultivation is commenced at this area, it becomes necessary to research the way of irrigation, drainage, and to estimate and evaluate their environmental influences. Paraguay side desires to establish a center to transfer Japanese technologies concerned.	
3. SECTOR	Agriculture/Ingriculture    in)General	(US\$1,000)	230,917	115,937	114,980		
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	Irrigation Canal                    1,275km Drainage Canal                    1,173 km Pumping place                    3 sets. Agricultural Land Reclamation    92,920 ha Road                                    474 km Agricultural processing facilities, Agriculture extension organization, Supplying system of improved seeds, Union to maintain facilities, Pilot farm (approximate scale 1,000 ha)				
5. TYPE OF STUDY	M/P	6. COUNTERPART AGENCY					
7. OBJECTIVES OF STUDY	Elaboration of M/P for the Integrated Agricultural Development Project in the Adjacent Area to Yacyreta Dam	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 G\$ annually. This amount would occupy just less than 11 of 1981's Gross Domestic Production (760 billion G\$).				
8. DATE OF S/W	1982/9	10. STUDY TEAM					
9. CONSULTANT(S)	Japan Agricultural Land Development Agency	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Data Analysis of LANDSAT Imagery				
No. of Members    20 Period    Dec.1982-Mar.1985 (28 months)		12. EXPENDITURE	5. TECHNICAL TRANSFER 1. Acceptance of trainees for Training Programme 2. Co-operative work to make report				
Total M/M                    Japan                    Field 216.00                    101.00                    115.00		3. PRINCIPAL SOURCE OF INFORMATION	①, ② Ministerio de Agricultura y Ganaderia				
2. MAJOR REASONS FOR PRESENT STATUS							

和名 ヤシレタダム隣接地域農業総合開発計画

[M/P, Basic Study, Other]

# PROJECT SUMMARY (F/S)

Compiled Mar. 1990  
Revised Mar. 1996

CSA PRY/A 302/84

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT				
1. COUNTRY	Paraguay	1. SITE OR AREA		An area of 272.5 sq.km in Capiibary district of San Estanizero City of San Pedro Department		1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="checkbox"/> Discontinued or Cancelled			
2. NAME OF STUDY	Proyecto de reforestacion en la zona de Capiibary, Departamento de San Pedro	2. PROJECT COST		Total Cost	Local Cost			Foreign Cost		
3. SECTOR	Forestry/Forestry & Forest Conservation	3. CONTENTS OF MAJOR PROJECT(S)		(US\$1,000)	1) 175,100	150,200	24,900			
4. REFERENCE NO.		Based on the results of investigations on related natural and socioeconomic conditions, a basic plan comprising land use principles and forest management systems was formulated. Using this basic plan, the project plan was prepared and consists of the following contents. The duration of the project is assumed to be 50 years after the initiation. 1) Reforestation Plan: The planned reforestation totally covers 6,628ha during 6 years. 2) Breeding Plan: The necessary seedlings for the above activity, totally amounting to some 30,000 are to be produced. The total area of nursery site including the various facilities is planned as some 8ha. 3) Forest Road Plan: Some 107km of forest roads is to be constructed during 6 years. 4) Felling Plan: Some 6 million cu.m would be felled for the 50 years. 5) Facilities Plan: Administrative facilities, which are needed for the project implementation, including the control office and dormitory are to be constructed. 6) Sales Plan: The total sales price of the above total cutting volume is estimated as some 800 billions Gs.		US\$1=240Gs in 1984		(Description) 1. The Government planned to implement the afforestation project with an OEF 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). (FY1993 Overseas Survey) Afforestation works for the sandy areas are implementing by means of the funds with an amount of Yen 176 million during 1988 to 1994. In future, this activity will be expanded whole over the country. It has been requested to let local counterparts to join with the decision makings on the various technical matters, and also to participate similar training courses which will be held in some countries nearby. (FY1994 Domestic Survey) The project is under way. (FY1995 Domestic Survey) An information said that the implementation of above-mentioned project has been completed. (FY1995 Overseas Survey) As it is very profitable to sale the products of forestry, the sales business is carrying on by means of the investments consisted of 403 million US from JICA and 128 million Gs from Paraguayan side, respectively. More than 20 engineers and/or technicians are being trained either in Japan or Paraguay, and more than 86 of various kinds of technical workers and specialists are being fostered by vocational training in this field. To afforest the Capiibary zone, the traditional farm-land or meadows, it is expected to create new industry and employment opportunities and also better environmental effects for this area.				
5. TYPE OF STUDY	F/S			4. FEASIBILITY AND ITS ASSUMPTIONS				Feasibility:	Yes	IRR(1) 18.40    IRR(1) IRR(2)            IRR(2) IRR(3)            IRR(3)
6. COUNTERPART AGENCY	National Forest Service The Republic of Paraguay			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.		
7. OBJECTIVES OF STUDY				Imp. Period:						
8. DATE OF SAV	1983/6			9. CONSULTANT(S)				Japan Forest Technical Association		
10. STUDY TEAM	No. of Members 18 Period Aug. 1983-Mar. 1985 (20 months)			11. ASSOCIATED AND/OR SUBCONTRACTED STUDY				Aerial Photography		
	Total M/M            Japan            Field 91.00                    61.00            30.00	12. EXPENDITURE		224,778 (¥000) 205,463						
		5. TECHNICAL TRANSFER		Trainee acceptance 0/37						
		2. MAJOR REASONS FOR PRESENT STATUS								
		3. PRINCIPAL SOURCE OF INFORMATION		①, ② National Forest Service						

和名 カピバリ地区森林造成計画

# PROJECT SUMMARY (M/P)

Compiled Mar. 1990  
Revised Mar. 1996

CSA PRY/S 101/86

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1. COUNTRY	Paraguay	1. SITE OR AREA	Asuncion 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. 1  (FY1991 Overseas Survey) No additional information.  (FY1993 Overseas Survey) Due to coup d'etat, change of national economic policy, etc., the implementation works are not so much progressed except a part of main construction works and some of sectional works. Some other works has been conducted in place of planned works in order to solve urgent problems. This matter should be evaluated again.  (FY1994 Domestic Survey) No information.  (FY1995 Domestic Survey) MOPC has officially requested to improve the roads at the surrounding urban area of Asuncion.  (FY1995 Overseas Survey) This project intended to implement taking into consideration that the relationship with the other project which is to improve the environment of Asuncion and the surrounding area. At present, recommended construction works as the result of M/P are implemented only for a limited part.
3. SECTOR	Transportation/Urban Transportation	(US\$1,000)	109,195	57,405		
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	The M/P consists Road Plan, Urban Road Plan and Public Transportation Plan. 1) Road Network Plan - Urban Arterial Road Plan - Rural area arterial Road Network - Rural area connecting Road among urban - Semi Arterial Road 2. Road Improvement Project - Av. Ayala-Av. R. Francia Improvement Project - Av. Espana-Av. San Teresa Improvement Project - Lombare-San Antonio Improvement Project - Urban Outer Ring Road Improvement Project 3) Urban Area Road Plan Plan of classifying pedestrian, automobile and bus road 4) Public Transportation Plan - Reformation of bus network - Bus Facilities Plan (bus terminal, exclusive bus truck, transit passenger terminal)			
5. TYPE OF STUDY	M/P	6. COUNTERPART AGENCY				
7. OBJECTIVES OF STUDY	Formulation of a M/P for urban transport system including public transport, land use planning, road network etc.	7. DATE OF S/W	1984/3			
8. DATE OF S/W		9. CONSULTANT(S)	4. CONDITIONS AND DEVELOPMENT IMPACTS 1) As a whole evaluation, in case the Master Plan is excuted in accordance with the investment plan, ERR for the project is estimated at 17.11 considering vehicle operation cost savings under estimations A B/C ratio at 2.74 and a discount ratio at 12%. From an economic standpoint, considerable return can be expected in the implementation of the project. 2) Urban Traffic Infrastructure provides not only reduction of vehicle operation cost but also an impact and effect on social economic widely. - Saving oil energy and foreign money reserve - Securing public transportation service - Promotion and employment demand with road construction project			
9. CONSULTANT(S)	Yachiyo Engineering Co., Ltd. Aero Asahi Cor.	10. STUDY TEAM				
10. STUDY TEAM	No. of Members 12 Period Aug. 1984-Aug. 1986 (25 months)	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	5. TECHNICAL TRANSFER 1) OJT on the use of computer software 2) Acceptance of seven trainees on urban transport planning (JICA training program)			2. MAJOR REASONS FOR PRESENT STATUS
	Total M/M Japan Field 100.60 29.34 71.26	12. EXPENDITURE				
	Total 447,282 (¥000) Contracted 414,071	3. PRINCIPAL SOURCE OF INFORMATION				①, ②

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

Compiled Mar.1990  
Revised Mar.1996

CSA PRY/S 202B/86

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
<b>1. COUNTRY</b>	Paraguay	<b>1. SITE OR AREA</b>				<b>I. PRESENT STATUS</b> <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
<b>2. NAME OF STUDY</b>		Itay and Mburicao Rivers of Asuncion City					
Storm Drainage System Improvement Project in Asuncion City		<b>2. PROJECT COST</b>				(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 - Itay).  <b>(FY1991 Overseas Survey)</b> CORPOSANA has been preparing part of the proposals in cooperation with Municipality of Asuncion & Ministry of Public Works.  <b>(FY1993 Overseas Survey)</b> CORPOSANA is trying to provide funds for implementation for the urgent construction works cooperating together with local municipality of the project site. As its budget is very limited, CORPOSANA is now transferring this project to the concerning municipalities. Besides, whether implementation of the project will be successfully carried out or not will depend on the matter that how much of funds will be allocated for CORPOSANA by the Central Government.  <b>(FY1994 Domestic Survey)</b> The Gov't of Paraguay has never taken any action to promote the Project.  <b>(FY1995 Domestic Survey)</b> In spite of that the management and administrative works have been transferred from CORPOSANA to the municipality, at present, the procurement of equipment and materials have been officially requested as for the Grant Aid to JICA by CORPOSANA.  <b>(FY1995 Overseas Survey)</b> It has been delayed because of the delay of financing and D/D. However, on 1995, CORPOSANA borrowed certain amount of the fund from the contractor and implemented the construction of the drainage pipeline with a total length of 1.8km and the drainage canal with a length of 0.4km upto the mid of this year. The total cost comes 108 GS. At present, the tender is called for the construction of 1.1km drainage pipeline and 36m of drainage canal in order to commence the works on 1996. It is considered very effective to shift the construction works under the control of the beneficial municipalities, and let them collect the tax concerned for expenditures of the works. The negotiations about above-mentioned subjects, including	
<b>3. SECTOR</b>		<b>3. CONTENTS OF MAJOR PROJECT(S)</b>					
Social Infrastructure/River & Erosion Control		*M/P* 1) Development plan 1986-1995 Combination of river improvement, drainage facilities and discharge control for three rivers (Itay, Mburicao and Larbele) 2) Development plan 1996-2005 Combination of river improvement and drainage facilities for the rest of rivers  *F/S* The storm water control works will be basically carried out by means of river channel improvement and the installation of drainage facilities in both Mburicao and Itay river basins. Besides, at the downstream end of the improved section of the Itay River, the retarding will be constructed to cope with the anticipated increase of discharge due to the proposed improvement works in the upper reaches of Aviadores del Chaco Avenue in accordance with the results of the Master Plan. The outline of the major projects include river improvement of 21.2 km, retarding basin, construction of bank protection work of 97,000 m <sup>2</sup> , filling works of 32 units, river bed protection of 7,800 m <sup>2</sup> , bridge of 48 units, etc.					
<b>4. REFERENCE NO.</b>		<b>4. FEASIBILITY AND ITS ASSUMPTIONS</b>					
<b>5. TYPE OF STUDY</b>	M/P+F/S	Feasibility: Yes	EIRR1) 11.60 EIRR2) EIRR3)	FERR1) FERR2) FERR3)			
<b>6. COUNTERPART AGENCY</b>	CORPOSANA	<b>Imp. Period:</b> 1988 - 1993.					
<b>7. OBJECTIVES OF STUDY</b>	Year 2005 as the target, formation of flood control project covering 26 river basins of the Asuncion City	<b>Conditions and Development Impacts:</b> (Conditions)*M/P* 1)The target year 2005. 2)The scale of the proposed project is 3-year return period. 3)The project targets regions having suffered from severe floods. Project implementation could favorably influence on not only the planning area but also the whole nation. *F/S* The purpose of the study on the First Stage Project is to provide a means to realize immediate flood damage mitigation in the Mburicao and the Itay river basins which are currently suffering from serious flood damage. The First Stage Project was formulated on the following conditions: 1)The target year is 1993. 2)A 3-year return period flood is adopted as the scale. 3)Land use pattern which was used for benefit estimation and runoff discharge estimation shall correspond to that presented in the year 1995. 4)The project targets regions having suffered from severe floods in both the Mburicao and the Itay river basins.					
<b>8. DATE OF S/W</b>	1985/2	<b>5. TECHNICAL TRANSFER</b>					
<b>9. CONSULTANT(S)</b>	CTI Engineering Co., Ltd.	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 data.					
<b>10. STUDY TEAM</b>	No. of Members 9 Period Jul.1985-Jan.1987 (19 months)  Total M/M Japan Field 100.86 44.47 56.39	<b>2. MAJOR REASONS FOR PRESENT STATUS</b>					
<b>11. ASSOCIATED AND/OR SUB-CONTRACTED STUDY</b>	Topographic Survey	<b>3. PRINCIPAL SOURCE OF INFORMATION</b> ①, ② CORPOSANA					
<b>12. EXPENDITURE</b>	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

## 状況 (要約表添付文書)

CSA PRY/S 202B/R6

(M/P+F/S)

Name of Storm Drainage System Improvement Project in Asuncion City  
Study

Country Paraguay

Type of Study M/P+F/S

Sector Social Infrastructure/River & Erosion Control

Present Status: Implementing

### (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 (Mbucitao - Ytay).

#### (FY1991 Overseas Survey)

CORPOSANA has been preparing part of the proposals in cooperation with Municipality of Asuncion & Ministry of Public Works.

#### (FY1993 Overseas Survey)

CORPOSANA is trying to provide funds for implementation for the urgent construction works cooperating together with local municipality of the project site.  
As its budget is very limited, CORPOSANA is now transferring this project to the concerning municipalities.

Besides, whether implementation of the project will be successfully carried out or not will depend on the matter that how much of funds will be allocated for CORPOSANA by the Central Government.

#### (FY1994 Domestic Survey)

The Gov't of Paraguay has never taken any action to promote the Project.

#### (FY1995 Domestic Survey)

In spite of that the management and administrative works have been transferred from CORPOSANA to the municipality, at present, the procurement of equipment and materials have been officially requested as for the Grant aid to JICA by CORPOSANA.

#### (FY1995 Overseas Survey)

It has been delayed because of the delay of financing and D/D.

However, on 1995, CORPOSANA borrowed certain amount of the fund from the contractor and implemented the construction of the drainage pipeline with a total length of 1.8km and the drainage canal with a length of 0.4km upto the mid of this year.

The total cost comes 108 Gs.

At present, the tender is called for the construction of 1.1km drainage pipeline and 36m of drainage canal in order to commence the works on 1996.

It is considered very effective to shift the construction works under the control of the beneficial municipalities, and let them collect the tax concerned for expenditures of the works.

The negotiations about above-mentioned subjects, including establishment of a branch organization of CORPOSANA at the office of them, with each beneficial municipalities are carried out again.

# PROJECT SUMMARY (M/P)

Compiled Mar. 1990  
Revised Mar. 1996

CSA PRY/A 102/87

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 510,300, latitude 26°35' to 27°20' S and Longitude 55°19' to 55°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 producción de granos principales en el área central del departamento de Itapua	2. PROJECT COST				Total Cost	Local Cost	Foreign Cost	(Description) Based on the findings of the master plan study, the following technical cooperation project was commenced 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.  (FY1994 Domestic Survey) No information.  (FY1995 Domestic Survey) The construction works for the preferential roads at the target area are carried on by the earth moving equipment provided by the Yen Credit.  (FY1995 Overseas Survey) Following works are now carrying on:- 1) Supplement of seeds 2) Planning of agricultural experiments 3) Cultivation of soybean, maize, wheat and sunflower at the local Agricultural Research Centers 4) Construction of rural roads at the surrounding area. The other works are not commenced as yet. According to the original plan, this project is going to complete on 1995. However, as the results of this project are highly appreciated, the beneficiaries desire to extend and deepen these kind of technical cooperation, such as supplement of excellent seeds, etc., about 10 years more, if possible.		
3. SECTOR	Agriculture/Agriculture in/General	3. CONTENTS OF MAJOR PROJECT(S)	(US\$1,000)	1)	80,200	32,313	47,887				
4. REFERENCE NO.		Seeds supply, Study and extension of agriculture, Post : 456 km Agricultural Land reclamation : 84,000 ha Soil conservation : 117,600 ha Afforestation : 24,700 ha Paddy irrigation : 5,580 ha Drainage canal : 14 km Stock facilities, Establishment of fund to increase main grains production, Improvement of small farmers, Electrification of rural area. The following particular programmes have been formulated taking into account the basic concept with emphasis on soybean, wheat, rice and cotton. 1) Seed supply programme 2) Agricultural research and diffusion programme 3) Farm road project (127km long of principal road, 264km of main road and 465km of branch road) 4) Agricultural land development project (84,000ha) 5) Soil conservation project (117,600ha) 6) Afforestation project (24,700ha) 7) Paddy field irrigation (5,580ha) 8) Drainage project (14km long) 9) Grain storage facility (20,000ton of capacity) 10) Social infrastructure improvement project (electrification, education, medical service, telecommunication etc.) 11) Financial supporting service (establishment of agricultural fund) 12) Small size farmers supporting programme	2)								
5. TYPE OF STUDY	M/P		7. OBJECTIVES OF STUDY								
6. COUNTERPART AGENCY	Ministry of Agriculture and Livestock	8. DATE OF S/W									
9. CONSULTANT(S)	Japan Agricultural Land Development Agency	9. CONSULTANT(S)	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. It is expected to increase agricultural production of main grains i.e. soybean, wheat, rice and cotton in the area remarkable. Soybean achieves future production of 419,000ton from actual 225,000ton, similarly, wheat 182,000ton from 99,000ton, rice 49,000ton from 22,000ton and cotton 61,000ton from 28,000ton. At the same time, international compatibility is strengthened by means of stability of agricultural production, decrease of farming cost and improvement of grain quality. Accordingly, socio-economic condition in the project area is modified and well-balanced regional development with consideration of small size farmers and environment is executed.								
10. STUDY TEAM	No. of Members 25 Period Jul. 1985-Mar. 1988 (33 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;">166.00</td> <td style="text-align: center;">83.00</td> <td style="text-align: center;">83.00</td> </tr> </table>	Total M/M	Japan	Field	166.00	83.00	83.00	4. CONDITIONS AND DEVELOPMENT IMPACTS			
Total M/M	Japan	Field									
166.00	83.00	83.00									
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Data Analysis of LANDSAT Imagery	12. EXPENDITURE	5. TECHNICAL TRANSFER 1) Acceptance of trainees for Training Programme 2) Co-operative work to make report.			2. MAJOR REASONS FOR PRESENT STATUS					
			Total	462,418 (¥000)							
			Contracted	443,314							
						3. PRINCIPAL SOURCE OF INFORMATION	①, ②				

国名 イタプア県中部地域主要穀物増産計画

(M/P, Basic Study, Other)

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1996

CSA PRY/S 303/88

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 checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2. NAME OF STUDY Transportation Facilities Improvement Project of the Asuncion Metropolitan Area		Asuncion metropolitan area				(Description) - After the completion of the feasibility study, the political situation became 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.  (FY1994 Domestic Survey) The request for dispatch of expert in order to carry out the Project was submitted to the Gov't of Japan in 1993.  (FY1995 Domestic Survey) No additional information.  (FY1995 Overseas Survey) As it becomes necessary to implement this project urgently, on Sept.1993, JICA's cooperation has been requested. The central government guarantees to get the foreign financial assistance for this project, but it is not materialized as yet. The number of items to improve or arrange under this project seem to be doubled because of increasing demands.	
3. SECTOR Transportation/Urban Transportation		2. PROJECT COST (US\$(,000))					
4. REFERENCE NO.		Total Cost      Local Cost      Foreign Cost 1)                    88,000        39,500        48,500 2) 3)					
5. TYPE OF STUDY F/S		3. CONTENTS OF MAJOR PROJECT(S)					
6. COUNTERPART AGENCY Municipality of Asuncion		1) The following road project for East-West corridor in Asuncion. - Improvement of M.Estigarribia road and Avenue E. Ayala (expansion) - Improvement of connection road between Av. Ayala and Av.Franca (expansion) - Improvement of Av.R.Franca (expansion) - Construction of Public Market No. 4 and bus terminal (new facility) - Improvement of streets/roads in rural area (traffic, signal, parking area, etc.)  2) Improvement of Av.MSE.Lynchi of South-north corridor in Asuncion (expansion)  3) Extension of Av.Espana (new construction)					
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 1987/5					
9. CONSULTANT(S) Yachiyo Engineering Co., Ltd.		Imp. Period: 1990. -2000. 4. FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes ERR1) 19.20      ERR1) ERR2)              ERR2) ERR3)              ERR3)					
10. STUDY TEAM No. of Members 8 Period Sep.1987-Oct.1988 (13 months)  Total M/M      Japan      Field 46.50            10.50      36.00		Conditions and Development Impacts: [Direct effect] Calculating the benefit for saving of the vehicle operation cost, ERR of the road projects (East-west corridor, South-north corridor and Av.Espana new extension) comes remarkably high as 19.2%.  [Indirect effect] 1) Preparation of good quality vehicle travelling 2) Dissolution of traffic interception by water flood 3) Impact on commercial activity along route 4) Securing a space for introduction of bulk transportation system 5) Expansion of employment demand					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY - Topographic survey - Geological survey		5. TECHNICAL TRANSFER 1) Off on computer software 2) Acceptance of trainees on urban transport (JICA Counterpart Training Program)					
12. EXPENDITURE Total 171,507 (¥'000) Contracted 152,275		2. MAJOR REASONS FOR PRESENT STATUS					
		3. PRINCIPAL SOURCE OF INFORMATION ①, ②					

町名 アスンシオン首都圏都市交通施設整備計画

# PROJECT SUMMARY (M/P)

Compiled Mar.1991  
Revised Mar.1996

CSA PRY/S 102/89

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. (FY1993 Overseas Survey) The results of survey works will be utilized as for the basic data of the feasibility study under the coordination of the Ministry of Natural Resources and Environment with the funds from USA of U.S.A. during a period of six months started from April, 1994. It is requested to let more local staffs join with these survey works in future. (FY1994 Domestic Survey) No additional information. (FY1995 Domestic Survey) After the completion of this survey works, the Government of Paraguay requested to dispatch the experts in the field of environmental administration in every year, however, it has been postponed due to the difficulty of recruiting the adequate personnel. On April, 1995, an expert of water quality analysis has been dispatched from a private firm to SENSA for two years. (FY1995 Overseas Survey) The Ministry of Natural Resources and Environment is investigating the circumstances of the Lake Ypacarai and surrounding area especially from the viewpoint of the reduction of water contamination. This work is implementing based on the results of JICA's survey work, by two(2) American consultants by means of AID funds. In contrast with American consultant for the work, the privileges, such as financing and studying the other problems at the Lake, are able to expect. The Technical Planning Secretariat transferred the equipment and the facilities concerned to the Ministry of Natural Resources and Environment.
3. SECTOR	Administration/Environmental Problems	(US\$1,000)	1) 2)			
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)			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 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 Within 5-10 years 8) Land use zoning, 9) Construction of sewage treatment plants 10) Afforestation, 11) Soil erosion control in cultivated land After detailed F/S 12) Raw sewage collection system by vacuum trucks 13) Construction of flood control channel (Yaguury River) 14) Construction of contact oxidation ditch (urban rivers) 15) Installation of a sluice at the mouth of the Salado River	
5. TYPE OF STUDY	M/P	4. CONDITIONS AND DEVELOPMENT IMPACTS				
6. COUNTERPART AGENCY	Technical Planning Secretariat Environmental Study Dept.	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" 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			2. MAJOR REASONS FOR PRESENT STATUS	
7. OBJECTIVES OF STUDY	Study on Water Pollution Conditions in Lake Ypacarai and formulation of Water Pollution Control Plan	8. DATE OF S/W	1987/2		(FY1995 Overseas Survey) This work is implementing based on the results of JICA's survey work, by two(2) American consultants by means of AID funds. In contrast with American consultant for the work, the privileges, such as financing and studying the other problems at the Lake, are able to expect. The Technical Planning Secretariat transferred the equipment and the facilities concerned to the Ministry of Natural Resources and Environment.	
9. CONSULTANT(S)	CTI Engineering Co., Ltd.	9. CONSULTANT(S)				
10. STUDY TEAM	No. of Members    13 Period    Dec.1987-Aug.1989 (21 months)	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY - River Cross, Lake Bottom Survey - Aerophotography			3. PRINCIPAL SOURCE OF INFORMATION ①, ② Technical Planning Secretariat, Environmental Study Dept.	
	Total M/M                      Japan                      Field 75.20                              31.20                              44.00	12. EXPENDITURE	5. TECHNICAL TRANSFER 1) Technical transfer in the technique of water quality analysis for monitoring of water pollution 2) Methods of evaluation of water quality improvement technique			
	Total                      385,777 (¥000) Contracted                      264,905					

和名 イバカライ湖流域水質汚濁対策計画

[M/P, Basic Study, Other]



# PROJECT SUMMARY (F/S)

Compiled Mar. 1991  
Revised Mar. 1996

CSA PRY/A 303/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																																																	
<b>1. COUNTRY</b> Paraguay		<b>1. SITE OR AREA</b> Paraguari, La Colmena City				<b>1. PRESENT STATUS</b> <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																																																																	
<b>2. NAME OF STUDY</b> Integrated Rural Infrastructure Improvement Project in La Colmena		<b>2. PROJECT COST</b> (US\$1,000) US\$1=1,000G in 1988																																																																					
<b>3. SECTOR</b> Agriculture/Agriculture in/General		<b>3. CONTENTS OF MAJOR PROJECT(S)</b>				<b>(Description)</b> Out of the components formulated in the F/S study, following priority projects were implemented as the grant aid projects of the Japanese government. 1. Road Improvement/Improvement: 9 routes 1=21.6km Bridge: 1 Place, Culvert: 13 Places 2. Irrigation Facilities: Intake Facilities: 2 Places Regulating Pond: 1 Place, Conducting Pipeline: 1= 5.1km Distribution Pipeline: 1=23.2km 3. Rural Water Supply Facilities: Well: 1 Place Filtration Plant: 1 unit, Distribution Tank: 1 Place Distribution Pipeline: 1=36.6km 4. O & M Facilities: O & M Center: 1 Place 4=280sq.m O & M Machines: Grader: 1 unit, Pickup 1 unit, Bike 1 unit The project implementation was as follows: -1989/Aug. -1990/Jan. B/D by Nagai Engineering Co., Ltd. -1990/Jul. E/N/O. 526 billion Yen for the phase 1 works -1990/Aug. -Dec. D/D -1991/Jan. E/N/O. 621 billion Yen for the phase 2 works -1991/Jul. Completion of the phase 2 works -1991/Dec. Completion of the phase 2 works (FY1991 Overseas Survey) -1992/May. Completion -1992/Jan. Hand over (FY1992 Overseas Survey) No additional information. (FY1993 Overseas Survey) Implementation had been completed in 1992. Total expenses was 1,147 plus 2,294 billion G, which is equivalent to approximately 1,376 billion Yen. (FY1994 Domestic Survey) -1992/Feb. Completion of the phase 1 works -1992/Mar. Hand over -1992/May. Completion of the phase 2 works -1992/Jun. Hand over -1992/May. Defects Inspection																																																																	
<b>4. REFERENCE NO.</b>		<b>Overall Components</b>																																																																					
<b>5. TYPE OF STUDY</b> F/S		<b>First Stage</b>																																																																					
<b>6. COUNTERPART AGENCY</b> Ministry of Agriculture and Livestock, Technical Secretariat		<b>Future Stage</b>																																																																					
<b>7. OBJECTIVES OF STUDY</b> Formation of agricultural and rural development plan		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Road Improvement</td> <td>97.4km</td> <td>69.8km</td> <td>27.6km</td> </tr> <tr> <td>Irrigation Facilities</td> <td>300ha</td> <td>400ha</td> <td>500ha</td> </tr> <tr> <td>Drainage Improvement</td> <td>10.0km</td> <td>4.0km</td> <td>6.6km</td> </tr> <tr> <td>Rural Water Supply</td> <td>1=70,056m</td> <td>1=56,650</td> <td>1=13,400m</td> </tr> <tr> <td>Electricity</td> <td>1=48.8km</td> <td>1=48.8km</td> <td>-</td> </tr> <tr> <td>Medical Care Facilities</td> <td>1 set</td> <td>1 set</td> <td>-</td> </tr> <tr> <td>Telecommunication System</td> <td>1 place</td> <td>1 place</td> <td>-</td> </tr> <tr> <td>Educational Facilities</td> <td>1=24.3km</td> <td>1=14.0km</td> <td>1=10.3km</td> </tr> <tr> <td>O &amp; M Center</td> <td>1 place</td> <td>2 schools</td> <td>6 ground</td> </tr> <tr> <td>Sub-Center</td> <td>10 Places</td> <td>4 Places</td> <td>6 Places</td> </tr> <tr> <td>Rural Park</td> <td>10 Places</td> <td>4 Places</td> <td>6 Places</td> </tr> <tr> <td>Sewage &amp; Garbage Treatment</td> <td>6 Places</td> <td>1 Place</td> <td>5 Places</td> </tr> <tr> <td>Agricultural Processing Facilities</td> <td>Facility</td> <td>One of facility</td> <td>Facility</td> </tr> <tr> <td>Marketing Facilities</td> <td>Facilities</td> <td>Collecting</td> <td>Grading</td> </tr> <tr> <td>Demonstration Farm</td> <td>5,000 sq.m</td> <td>5,000 sq.m</td> <td>-</td> </tr> <tr> <td>O &amp; M Machines</td> <td>1 unit</td> <td>1 unit</td> <td>-</td> </tr> </table>						Road Improvement	97.4km	69.8km	27.6km	Irrigation Facilities	300ha	400ha	500ha	Drainage Improvement	10.0km	4.0km	6.6km	Rural Water Supply	1=70,056m	1=56,650	1=13,400m	Electricity	1=48.8km	1=48.8km	-	Medical Care Facilities	1 set	1 set	-	Telecommunication System	1 place	1 place	-	Educational Facilities	1=24.3km	1=14.0km	1=10.3km	O & M Center	1 place	2 schools	6 ground	Sub-Center	10 Places	4 Places	6 Places	Rural Park	10 Places	4 Places	6 Places	Sewage & Garbage Treatment	6 Places	1 Place	5 Places	Agricultural Processing Facilities	Facility	One of facility	Facility	Marketing Facilities	Facilities	Collecting	Grading	Demonstration Farm	5,000 sq.m	5,000 sq.m	-	O & M Machines	1 unit	1 unit	-
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<b>8. DATE OF S/W</b> 1988/1		<b>Imp. Period:</b> 1989.12-1992.12																																																																					
<b>9. CONSULTANT(S)</b> Nagai Engineering Co., Ltd.		<b>4. FEASIBILITY AND ITS ASSUMPTIONS</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><b>Feasibility:</b></td> <td>EIRR1) 12.00</td> <td>FIRR1)</td> </tr> <tr> <td>Yes</td> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </table>		<b>Feasibility:</b>	EIRR1) 12.00	FIRR1)	Yes	EIRR2)	FIRR2)		EIRR3)	FIRR3)																																																									
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<b>10. STUDY TEAM</b>		<p><b>Conditions and Development Impacts:</b>                      Condition: 1) Growth rate of the farmer's agricultural income for future 10 years will be projected over 6 percent per annum; 2) To conserve the natural environment, land use of the development scheme will be concentrated to the existing farm lands; 3) In the agricultural development sector, integrated development plan referred to the farming, management and operation will be established on the premise that the water resources development, improvement of the farm roads, building and bringing-up of the agricultural cooperative; 4) Rural electrification will be introduced to the area where the electricity is not available. This will be the core project to accelerate the modernization of living standards and agricultural form in the projected areas; 5) In line with the projected rural infrastructure plan, establishment of the O &amp; M center will be proposed together with the organization and working plan.                      Benefits: (Unit: 1,000G)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td><b>Overall</b></td> <td><b>First Stage</b></td> <td><b>Future Stage</b></td> </tr> <tr> <td>Increased agricultural production</td> <td>1,940,336</td> <td>916,418</td> <td>1,023,918</td> </tr> <tr> <td>Improved qualities of products</td> <td>114,060</td> <td>57,049</td> <td>57,040</td> </tr> <tr> <td>Reduction of costs</td> <td>2,101,179</td> <td>924,636</td> <td>1,176,543</td> </tr> <tr> <td>Others</td> <td>789,074</td> <td>286,549</td> <td>502,525</td> </tr> </table>					<b>Overall</b>	<b>First Stage</b>	<b>Future Stage</b>	Increased agricultural production	1,940,336	916,418	1,023,918	Improved qualities of products	114,060	57,049	57,040	Reduction of costs	2,101,179	924,636	1,176,543	Others	789,074	286,549	502,525																																														
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Reduction of costs	2,101,179	924,636	1,176,543																																																																				
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>No. of Members</td> <td colspan="2">9</td> </tr> <tr> <td>Period</td> <td colspan="2">Jul. 1988 - Jun. 1989 (12 months)</td> </tr> <tr> <td></td> <td><b>Total M/M</b></td> <td><b>Field</b></td> </tr> <tr> <td></td> <td>34.86</td> <td>24.46</td> </tr> <tr> <td></td> <td><b>Japan</b></td> <td><b>Field</b></td> </tr> <tr> <td></td> <td>10.40</td> <td>24.46</td> </tr> </table>		No. of Members	9		Period	Jul. 1988 - Jun. 1989 (12 months)			<b>Total M/M</b>	<b>Field</b>		34.86	24.46		<b>Japan</b>	<b>Field</b>		10.40	24.46	<b>2. MAJOR REASONS FOR PRESENT STATUS</b>																																																			
No. of Members	9																																																																						
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<b>11. ASSOCIATED AND/OR SUBCONTRACTED STUDY</b> Boring survey		<b>5. TECHNICAL TRANSFER</b>																																																																					
<b>12. EXPENDITURE</b>		<p>Q37 Senior Expert was dispatched to transfer and extend the irrigation technology. (1993.4-1994.4)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><b>Total</b></td> <td>175,299 (¥000)</td> </tr> <tr> <td><b>Contracted</b></td> <td>120,904</td> </tr> </table>				<b>Total</b>	175,299 (¥000)	<b>Contracted</b>	120,904																																																														
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<b>Contracted</b>	120,904																																																																						
		<b>3. PRINCIPAL SOURCE OF INFORMATION</b> ①, ② Ministry of Agriculture and Livestock																																																																					

# PROJECT SUMMARY (M/P)

Compiled Mar.1993  
Revised Mar.1996

CSA PRY/S 103/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1. COUNTRY	Paraguay	1. SITE OR AREA	Whole Paraguay and its export corridor			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 Transport Master Plan	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) The short term (1-1995), mid term (1-2000) and long term (1-2010) road development program based on the M/P network is going to be approved by the Cabinet. The various financial assistances are requested along with the program.  1991.12 The improvement of the National Highway No.3 Limpio-San Estanislao (127km) for World Bank Loan.  1991.12 The official request to dispatch Japanese experts to the MDPIC as an activity to enhance the transport information sector was sent.  (FY1994 Domestic Survey) The F/S of the trunk road was cancelled officially because of the environmental problem in 1994.  (FY1995 Domestic Survey) Preliminary survey was carried out for the secondary highway development between Carmen and Villarica. For the other trunk roads development are now carrying on by the financing from AIB and so on. For the improvement of suburban railway, now the investigation work is on the way to implement by means of BOT process.  (FY1995 Overseas Survey) Various plans recommended by this M/P have been integrated in the shape of the National Plan of Transportation Policy. The Department of Integrated Planning of Transportation has been newly established in OPR of the Ministry of the Department will decide the order to implement various plans.  As each of these plans are very important and with high priority for whom may concerns to road, marine and railway transportations, each performances should be evaluated and reported additionally, one after another.	
3. SECTOR	Transportation / in General		(US\$1,000)	2,576,500	1,156,000		
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	1) Highway Transport: R-1 Trunk Road Development; Primary highways Development; Secondary Highways Development. R-2 Rural Road Development. R-3 Aristed Bridge Expansion. R-4 Sant Tone - Sao Borja Bridge Construction. 2) Water Transport: N-1 Domestic Cereals Export terminals. N-2 Cereales Export Terminals at Free Zones. N-3 Main Foreign Trade Port at Villetta. N-4 Regional Freight Terminals. N-5 Petroleum Distribution Terminals. N-6 Paraguay River Improvement and Maintenance. N-7 Parana River Improvement and Maintenance. N-8 Fleet Enhancement. 3) Rail Transport: F-1 Asuncion Suburban Area Rail Improve. F-2 Gral. Artigas - Encarnacion Rail Improve. F-3 Villarica - Gral. Artigas Rail Improve. F-4 Ypacarai - Villarica Rail Improv. F-5 Encarnacion - Sao Borja 4 Rail System Development. F-6 Cereales Export Railway Terminals. F-7 Enhancement of Rolling Stocks. F-8 Nueva Palmira Port Branch Construction. 4) Air Transport: A-1 International Airports Facilities Development. A-2 Local Airports Facilities Development. A-3 Air Route Facilities Development. A-4 GSE Enhancement.				
5. TYPE OF STUDY	M/P	7. OBJECTIVES OF STUDY				4. CONDITIONS AND DEVELOPMENT IMPACTS (Condition) Elevation of water level in the early mid of 90s by the Yacireta Dam Construction. (Project N-5, N-7, F-2, F-3, F-4)  (Development Impacts) 1) Improvement of inter city access time by the trunk road development. 2) Promotion of agriculture activities by the rural road development. 3) Promotion of export by the improvement of export corridor facilities.	
6. COUNTERPART AGENCY	Ministry of Public Works and Communication	8. DATE OF SA/W	2. MAJOR REASONS FOR PRESENT STATUS       3. PRINCIPAL SOURCE OF INFORMATION ①, ②				
9. CONSULTANT(S)	Yachiyo Engineering Co., Ltd. Mitsubishi Research Institute Overseas Coastal Area Development Institute Japan Railway Technical Service	10. STUDY TEAM				11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Road Side OD Survey; Industries Comodity flow interview; and Transport Industries interview	
12. EXPENDITURE	409,981 (¥000)	12. EXPENDITURE	5. TECHNICAL TRANSFER Transfer of transport related data base.				
	Contracted					6. COUNTERPART AGENCY Ministry of Public Works and Communication	
	Total		7. OBJECTIVES OF STUDY - Planning to the optimum transport system for regional development and to support foreign trade. - Planning of short to long term transport improvement policy and implementation program.				
	Japan					8. DATE OF SA/W 1989/10	
	Field		9. CONSULTANT(S) Yachiyo Engineering Co., Ltd. Mitsubishi Research Institute Overseas Coastal Area Development Institute Japan Railway Technical Service				
	100.15					10. STUDY TEAM No. of Members 14 Period Mar.1990-Jan.1992 (10 months)  Total M/M Japan Field 100.15 26.01 74.14	
	26.01		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Road Side OD Survey; Industries Comodity flow interview; and Transport Industries interview				
	74.14					12. EXPENDITURE Total 409,981 (¥000) Contracted	

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

Compiled Mar. 1995  
Revised Mar. 1996

CSA PRY/S 216/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Paraguay	1. SITE OR AREA	Whole areas of the country			I. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	The Establishment of Educational Television Broadcasting Network	2. PROJECT COST	M/P 1) 2)	Local Cost	Foreign Cost	
3. SECTOR	Communications & B/Broadcasting		(US\$,000) F\$ 1)	45,400	11,900	(Description) A large initial investment will be required to implement the Master Plan to create an educational television broadcast network. However, in light of the current development budget of the Government and the expansion of the ANTELCO's investment, it will be difficult to obtain such a large amount for capital investment. Particularly, the implementation of the Priority Project should be financed by grants or very soft loans, so as to ease the repayment burden as much as possible. The Priority Project is most essential in establishing the educational television broadcasting service in Paraguay. In particular, the implementation of work 1 to construct transmitting facilities in Asuncion has an important meaning in securing the TV channel, which the Paraguayan Government has retained for years for educational television in the capital city. With the Asuncion station put into service, some 40% of the entire population of the country will be able to receive education through the television service. Consequently, Work 1 of the Priority Project should be taken up for implementation at an earliest possible date. (FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) The Minister of Education approved to request the cooperation for this Project to the Government of Japan on 20th June, 1994. And the officers in charge of the Ministry of Education explained the necessity and the priority of this project to the Parliament and asked to allocate national budget to materialize a part of the Project. Simultaneously, negotiations with the investors are also commenced.
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	(US\$ 1000) F\$ 1)		33,500	
5. TYPE OF STUDY	M/P+F/S		2)			
6. COUNTERPART AGENCY	Ministry of Education & Culture National Administration of Telecommunication (ANTELCO)	Work 1 Construction of a television transmitting station in Asuncion, which covers 40% of Paraguayan population, and supplementation of existing studio facilities (US\$4.7 million)	3)			
7. OBJECTIVES OF STUDY	To draw up a Master Plan on the establishment of educational television broadcasting Network throughout the country and to carry out a Feasibility Study of the Priority Project.	Work 2 Construction of the ETV Center in Asuncion and construction of stations in three major regional cities, which increases total population coverage to 62% (US\$19.3 million)				
8. DATE OF S/W	1992/4	Work 3 Construction of remaining nine regional transmitters of 13 1st-plan station, which increases total population coverage to 84% (US\$10.8 million)				
9. CONSULTANT(S)	Integrated Technology Inc. Yachiyo Engineering Co., Ltd.	Work 4 Construction of ten 2nd-plan regional stations, which increases total population coverage to 94%, and construction of studios in major regional stations (US\$10.6 million)				
		Imp. Period:	1995.1-1995.12	1997.7-1998.12	2000.7-2001.12	
		4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10. STUDY TEAM	No. of Members 11 Period Nov. 1992-Aug. 1993 (11 months)	Conditions and Development Impacts: 1) The Priority Project of creating an educational television broadcasting network is designed to meet the basic human needs forming the basis of the educational system composed of primary education and education for the socially-disadvantaged. For Paraguay, a country not endowed with significant natural resources, the education or the development of her human resources, although it will take time, is the only way to be able to stand on an equal footing with other nations in the future. 2) As the Master Plan will target education, the principal operational source of budget should come from National Treasury. However, in order to reduce the burden shared by the Government, it is forecast that in the later part of the Master Plan period, revenue from commercials will be able to almost cover the operational expenses.				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	2. MAJOR REASONS FOR PRESENT STATUS Preparations for the establishment are now being promoted.				
12. EXPENDITURE	Total 247,124 (¥000) Contracted 224,330	3. PRINCIPAL SOURCE OF INFORMATION ①, ② Tele education Dep., Ministry of Education (Lic. Jorge Ernesto Garbetti)				
		5. TECHNICAL TRANSFER	To be given guidance on program selection, efficient program production methodology and evaluation methodology.			

和名 教育テレビ放送網整備計画調査

(M/P+F/S)

# PROJECT SUMMARY (M/P)

Compiled Oct. 1995  
Revised Mar. 1996

CSA PRY/A 103/94

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS						
1. COUNTRY	Paraguay	1. SITE OR AREA	Presidente Hayes prefecture (with an area of 73,000sq.km, location Lat.22°10' to 25°20'S, Long.57°10' to 60°45'W) at the southern end of Chaco District  Total Cost      Local Cost      Foreign Cost (US\$1,000)              1)              2)              3)              4)              5)			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued				
2. NAME OF STUDY	Integrated Agricultural and Livestock Development Project at Lower Chaco	2. PROJECT COST				(Description) At present, 1.5 years after the completion of this survey works, it seems to be on the stage of that an official request for implementation of the Feasibility Study in connection with the integrated agricultural and livestock farming development plan for Pozo Colorado District and Campo Azeval District is going to be submitted to the Government of Japan.  (FY 1995 Overseas Survey) In order to obtain various data, a dam has been constructed and reserved water during rainy season. The pilot farm has been irrigated by the water from the dam to cultivate winter wheat and other crops. This test was planned to complete on 1995, however, due to pay much environmental and ecological cautions, it will be extended until 1996. It is planned to continue various experimental works including the research for the other crops under this Project.					
3. SECTOR	Agriculture/(Agriculture in)General	3. CONTENTS OF MAJOR PROJECT(S)	1) Support the research work of agricultural and livestock farming industry: Experiment station of livestock farming 1, Stock farm 1, Research center 1, Diffusing station 4, Cooperation society of agricultural equipment 1, Seed/seeding supplying facility 1, etc.  2) Infrastructure improvement for agricultural and livestock farming society: Improvement of trunk roads (70km), Preparation of farm (177,60ha and Meadow (479,000ha), Preparation of irrigation waterway and drainage (43,000ha) and maintenance of the farmland (17,000ha)  3) Facilities of social infrastructure: 7 clinics, 37 educational facilities, 4 sets of electrification, 9 sets of living water supplying facilities and 3,780 residential housings  4) Facilities of distribution and/or processing: 3 cotton gins, 4 citrus selection facilities, 6 factories for daily products, 9 meat processing and 1 cooperative forwarding facility for fruits and vegetables								
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	[Conditions] 1) Preparation for the implementation of this M/P project including the financing should be carried on quickly. 2) It is necessary condition to acquire the ownership of the land for the settlement in advance. 3) It is indispensable to provide various supporting systems to make immigrants possible to operate their farming successfully as the foundation of the development programs. 4) It is necessary to diversify the agricultural and livestock farming products and processed goods in order to accomplish the Master Plan by means of a certain pilot-scaled enterprises.  [Development Impacts] 1) Increase of the products: Compare with 1991, increasing ratio of various products are estimated as Peanuts 71%, Cotton 7%, Citrus 38%, Tropical fruits 13%, Cattle 26% and Sheep/goat 50%.  2) Increase of the employment: 6,500 opportunities of employment per annum. 3) Contribution to solvency of the problems connecting peasants and making the rural life more stable.								
5. TYPE OF STUDY	M/P	5. TECHNICAL TRANSFER	Cooperation to make the report Seminar for technical transfer at the site Training in Japan (2 persons)								
6. COUNTERPART AGENCY	Ministry of Agriculture and Livestock	6. MAJOR REASONS FOR PRESENT STATUS									
7. OBJECTIVES OF STUDY	Formulation of the Master Plan on agricultural and livestock farming development at the Presidente Hayes Prefecture (with an area of approx. 73,000sq.km) in southern Lower Chaco district.	7. PRINCIPAL SOURCE OF INFORMATION	①, ②								
8. DATE OF SAV	1990/11										
9. CONSULTANT(S)	Japan Agricultural Land Development Agency										
10. STUDY TEAM	No. of Members    13 Period    Oct. 1991-Mar. 1994 (29 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td>127.72</td> <td>53.18</td> <td>74.54</td> </tr> </table>	Total M/M	Japan	Field	127.72	53.18	74.54				
Total M/M	Japan	Field									
127.72	53.18	74.54									
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY											
12. EXPENDITURE	Total                      (¥000) Contracted              402,405										

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

Compiled Oct. 1995  
Revised Mar. 1996

CSA PRY/S 203/94

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																			
1. COUNTRY Paraguay		1. SITE OR AREA Asuncion Metropolitan Zone: Waste Collection Chaco-1 Proposed Site : Final Disposal Av. Madam Lynch : Transit Base				1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																			
2. NAME OF STUDY Solid Waste Management for Metropolitan Area of Asuncion		2. PROJECT COST (US\$1,000)				(Description) Authorities concerned in Paraguay (Ministry of Health and Welfare, SENASA and 15 autonomias of the city of Asuncion and the surrounding area) eagerly wish to implement this project. They wish to have grant aid for the finance to commence the project implementation, and simultaneously to have technological cooperation by the Japanese experts in order to improve their organization, technologies and the staffs.  (FY 1995 Overseas Survey) The implementing schedule of this project is now drawing. SENASA will settle the regulations with regard to this issue, and ANZAM will establish the Urban Cleaning Office. Additionally, SENASA will join with a consultation organization of the Presidential Office to research the socio-economical impacts of this Project, and will construct a disposal treatment facility for wider area at Chaco-1. SENASA is going to publish a manual book for reduction and recycling of the disposal and the wasted materials from families, and distribute the manual book for each families in the municipality. And also to research the components of disposal in order to apply the results to this project and to introduce to the other cities and districts of the country. Above actions are considered as for a part of the National Plan. At present, it is still on the preouting stage such as designing, financing and providing the tender documents.																			
3. SECTOR Public Utilities/Urban Sanitation		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>M/P (1)</th> <th>Local Cost (2)</th> <th>Foreign Cost (3)</th> <th></th> </tr> </thead> <tbody> <tr> <td>I/S (1)</td> <td>4,726</td> <td></td> <td>161</td> <td>4,565</td> </tr> <tr> <td>2)</td> <td></td> <td>11,060</td> <td>1,594</td> <td>9,466</td> </tr> <tr> <td>3)</td> <td></td> <td>5,224</td> <td>1,282</td> <td>3,942</td> </tr> </tbody> </table>							M/P (1)	Local Cost (2)	Foreign Cost (3)		I/S (1)	4,726		161	4,565	2)		11,060	1,594	9,466	3)		5,224
	M/P (1)	Local Cost (2)	Foreign Cost (3)																						
I/S (1)	4,726		161	4,565																					
2)		11,060	1,594	9,466																					
3)		5,224	1,282	3,942																					
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)				<p>1) Improvement of waste collection (at 14 autonomias outside of Asuncion Metropolitan).</p> <p>2) Improvement of waste collection (at the city of Asuncion).</p> <p>3) Construction of the transit base at Av. Madam Lynch.</p> <p>4) Construction of the disposal for wider area.</p>																			
5. TYPE OF STUDY M/P+F/S																									
6. COUNTERPART AGENCY Ministry of Health and Welfare, Union of Autonomy of the Metropolitan Area (AMZAM)																									
7. OBJECTIVES OF STUDY (1) Draw up the basic plan to treat waste material (2) Feasibility Study for the project with the top priority																									
8. DATE OF S/W 1993/1		Imp. Period: 1996. 1995.-1996. 1996.				2. MAJOR REASONS FOR PRESENT STATUS																			
9. CONSULTANT(S) Kokusai Kogyo Co., Ltd.		4. FEASIBILITY AND ITS ASSUMPTIONS																							
10. STUDY TEAM No. of Members 11 Period Jun. 1993-Aug. 1994 (14 months)  Total M/M Japan Field 60.17 25.50 34.67		Conditions and Development Impacts: (Development Impacts) 1) Level up of the public sanitation 2) Increase of the revenue from tour business 3) Increase of the chance of employment 4) Increase of the value of estate 5) Protection of the contamination of underground water				3. PRINCIPAL SOURCE OF INFORMATION ①, ②																			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY 1) Analysis of Waste Material 2) Topographic Survey 3) Geological Survey 4) Environmental Survey 5) To make VIDEO for the Education of		5. TECHNICAL TRANSFER 1) JICA's training in Japan for two counterparts. 2) Survey team held a seminar of waste disposal at the site.																							
12. EXPENDITURE Total 274,929 (¥000) Contracted																									

和名 アスンシオン首都圏廃棄物処理総合計画調査

[M/P+F/S]

# PROJECT SUMMARY (F/S)

Compiled Mar. 1990  
Revised Mar. 1996

CSA PER/A 301/77

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Peru	1. SITE OR AREA				1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2. NAME OF STUDY	Proyecto de la construcción del complejo pesquero del centro	Ventanilla					
3. SECTOR	Fisheries/Fisheries	2. PROJECT COST (US\$1,000)		Total Cost	Local Cost	Foreign Cost	
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)				(Description) No information is available.  (FY 1993 Overseas Survey) -Financial aid has been requested to the Government of Japan on December, 1990(waiting for reply). -It is ready to commence the implementation whenever the fund becomes available. -Following effects are expected on this Project : 1)Supply enough sea foods to 6.5 millions of inhabitants in the metropolitan area. 2)Export sea products and earn foreign exchange. 3)Rural development by means of the establishment of a new fishing port, and 4)Create new employment opportunities.  (FY1995 Domestic Survey) No additional information.  (FY1995 Overseas Survey) - F/S commenced on 1988 and completed on 1990. - The grant aid has been requested based on the F/S, and waiting for the response. - The implementation of the project is delayed because of the financial problem. - This project is very important and eagerly wished to materialize. - It is expected much more technical transfer in the field of harbor industry, since technological innovation of fisheries industry becomes necessary. - It is considered followings as for the subjects in the near future: 1) Construction of new facilities at a fishing port near by Lima. 2) Improvement of the Port of Callao, and 3) Construction of new fishing ports at the central part of the country.	
5. TYPE OF STUDY	F/S	-Planning of proper scale facilities and their arrangement in fishing base -Basic design of the structure -Estimate of construction cost and period -Economic and financial analysis					
6. COUNTERPART AGENCY		4. FEASIBILITY AND ITS ASSUMPTIONS					
7. OBJECTIVES OF STUDY		Imp. Period: Feasibility:    EIRR1)            FIRR1) Yes            EIRR2)            FIRR2) EIRR3)            FIRR3)					
8. DATE OF S/W	/	Conditions and Development Impacts: the proportion of fish for processed use accounts for large part of fishery of Peru. Production of fish for food as a supplier of protein will be promoted by the effective operation of comprehensive fishing base.					
9. CONSULTANT(S)		10. STUDY TEAM				2. MAJOR REASONS FOR PRESENT STATUS	
		No. of Members Period Oct. 1976-Dec. 1976 (2 months)  Total M/M            Japan            Field					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY				3. PRINCIPAL SOURCE OF INFORMATION ①, ② Empresa Nacional de Puertos S.A.	
12. EXPENDITURE		12. EXPENDITURE					
		Total                    56,672 (¥000) Contracted					

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

Compiled Mar. 1986  
Revised Mar. 1996

CSA PER/S 201B/83

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Peru	1. SITE OR AREA		Lima Capital Area (metropolitan area)		I. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="checkbox"/> Discontinued or Cancelled	
2. NAME OF STUDY	Development Project of the Port of Callao	2. PROJECT COST		M/P 1) 553,792 Local Cost 2) 193,874 Foreign Cost 359,918			
3. SECTOR	Transportation/Port	3. CONTENTS OF MAJOR PROJECT(S)		<M/P> The main purpose of the Short-term Plan through 1987 is containerization and provision of enough facilities. - container berths 4 new berths - grain berths 2 new berths - general cargo berth 1 new berth - petroleum berth 2 renovated berths - breakwater, basin, handling equipment 1 new berth		(Description) Delayed after the completion of F/S due to the problem of external debt accumulation. (FY1991 Overseas Survey) The Peruvian government assigns high priority to the proposed project, and plans to resubmit the application for Japanese aid during 1992 after reducing the scale of the project. (FY1992 Overseas Survey) The port facility of handling the volume of cargoes is expected to be beyond the future volume of cargoes. (FY 1993 Overseas Survey) Still under the investigation to revise the master plan to make it more applicable for the present situations, such as the provision for the vessels of full-container type and of in bulk type cargoes, and to implement the feasibility study. (FY1994 Domestic Survey) The Project proposed was not implemented in 1980's. However, since the President Fujimori came to power, the Gov't of Peru put high priority on the Project and ENAPU conducted the fee-F/S based on the short-term plan of JICA Study. The Gov't of Peru requested the Yen Loans from the Gov't of Japan based on the pre-F/S. The Gov't of Japan pledged to examine the Yen Loan and OECF carried out SARFOP (Special Assistance for Project Formation) Study to formulate the project that was eligible for OECF financing since Oct.1994. This study will be completed by the end of this Dec.. (FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) Financial assistance is requested to the Government of Japan. Expecting the OECF aid.	
4. REFERENCE NO.		<F/S> To handle 8.4 million tons in 1987, the following facilities will be prepared. The main purpose of the Short-term Plan through 1987 is containerization and provision of enough facilities. - container wharf 1 berth with -12m depth and with 15m area - grain wharf 1 berth with -12m depth (for 60,000 DMF) - container crane 2 cranes - handling machines 2 machines					
5. TYPE OF STUDY	M/P+F/S	4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: EIRR1) 19.53 EIRR2) EIRR3) Yes	35.31		
6. COUNTERPART AGENCY	Empresa Nacional de Puertos S.A.	7. OBJECTIVES OF STUDY		Imp. Period: 1984.6-1987.12 Conditions and Development Impacts: [Prerequisites] <F/S> - Project life is 25 years from 1982 until 2006. - Port tariff will be as it is in 1982. - Prices will be in 1982. [Impact] <M/P, F/S> The project will solve the problem of long waiting time that occurs both due to superannuation and shortage of the port facilities of Callao and due to the defective handling operation system. It will also help prepare the port to handle containers and larger ships.			
8. DATE OF S/W	1982/4	8. DATE OF S/W		1982/4			
9. CONSULTANT(S)	Overseas Coastal Area Development Institute	9. CONSULTANT(S)		Overseas Coastal Area Development Institute			
10. STUDY TEAM	No. of Members 12 Period Jul.1982-Sep.1983 (15 months)  Total M/M Japan Field 101.93 75.80 26.13	11. ASSOCIATED AND/OR SUB-CONTRACTED STUDY		None		2. MAJOR REASONS FOR PRESENT STATUS - Deterioration of economic conditions and accumulation of external debts. - Political and social destabilization in recent years. (FY1992 Overseas Survey) A request was made to the Instituto Nacional de Planificación for financing the project. However, it was not yet accepted.	
12. EXPENDITURE	Total 233,886 (¥'000) Contracted 280,126	12. EXPENDITURE		Total 233,886 (¥'000) Contracted 280,126		3. PRINCIPAL SOURCE OF INFORMATION D. ② Empresa Nacional de Puertos S.A.	

和名 カジャオ港整備計画

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1996

CSA PER/A 302/84

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Peru	1. SITE OR AREA		Chancay-Huaral valley, 80km from Lima		1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY Chancay-Huaral Valley Rehabilitation Project		2. PROJECT COST (US\$1,000)		Total Cost 41,474	Local Cost 18,890		
3. SECTOR Agriculture/(Agriculture in)General		3. CONTENTS OF MAJOR PROJECT(S)				(Description) The priority project(rehabilitation of irrigation and drainage facilities) proposed in the F/S was implemented by the grant from the Japanese government. 11,400 ha of farm land was developed in two stages.  Nov.1987    Request for grant aid Jan.1989    B/D (Naigai Engineering Co.,Ltd.) Jun.1989    grant aid E/M 1984 million yen Jul.1989    B/D (Naigai Engineering Co.,Ltd.) Jan.1990 - Mar.1991 Stage 1 construction Oct.1990    Grant aid E/M 1631 million yen Feb.1991 - 1992 Stage 2 construction  [F11991 Overseas Survey] No additional information.  [F11994 Domestic Survey] Jul.1991 Suspended due to the act of terrorism Aug.1992 Re-opening of the project Mar.1993 Completion of the Stage 2 construction  [F11995 Domestic Survey] The construction work of Phase-II was once suspended due to the dangerous terrorists' activity. However, it was completed on 1993.  [F11995 Overseas Survey] At present, necessary measure are carrying on to request the detailed design and the implementation at Esperanza region which has been planned by the F/S of this project.	
4. REFERENCE NO.		Irrigated area : 20,200 ha Intake facilities : 8 places Irrigation canal : 175km Pond : 18 places Drainage canal : 70 km Underdrainage : 407 km Road : 174 km Dike : 14 km The cost above is estimated in 1984 prices.					
5. TYPE OF STUDY						F/S	
6. COUNTERPART AGENCY Instituto nacional de ampliacion de la frontera agricola							
7. OBJECTIVES OF STUDY Agricultural development							
8. DATE OF S/W		1983/12	Imp. Period:		1985.4-1992.10		
9. CONSULTANT(S) Naigai Engineering Co., Ltd. Chuo Kaihatsu International Corp.		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 17.80 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)	
10. STUDY TEAM		Conditions and Development Impacts: Benefits: Increase of agricultural products 18,600(1,000US\$/year) Reduction of O/M costs 101(1,000US\$/year) Improvement of roads 184(1,000US\$/year)					
No. of Members 12 Period Feb.1984-Mar.1985(14 months)							
Total M/M		Japan	Field				
55.51		23.31	32.20				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Soil Analysis						2. MAJOR REASONS FOR PRESENT STATUS	
		The project was given top priority for early implementation to raise the self-sufficiency of basic foods and to increase exports.					
12. EXPENDITURE						3. PRINCIPAL SOURCE OF INFORMATION	
Total 167,369 (¥000)						①, ②	
Contracted 154,361							
5. TECHNICAL TRANSFER		1. Acceptance of 2 trainees 2. O/M 3. Maintenance and management plan(draft)					

和名 チャンカイ・ワラル谷かんがい復旧計画



# PROJECT SUMMARY (Basic Study)

Compiled Mar.1990  
Revised Mar.1996

CSA PER/S 501/86

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1. COUNTRY	Peru	1. SITE OR AREA	Satipo Area (20,000 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	Topographic Mapping Project for Satipo Area, Department of Junin	2. PROJECT COST	Total Cost    Local Cost    Foreign Cost			(Description) (FY1991 Overseas Survey) The maps are highly appreciated. The National Geographic Institute hopes for further Japanese assistance in land use mapping, automated drawing system, and so on.  (FY1994 Domestic Survey)/(FY1995 Domestic Survey) No additional information.  (FY1995 Overseas Survey) The performances of this study project are enrolled into the map of whole country and are utilized for the planning works of enterprises concerned by the Presidential Office, the Ministry of Agriculture, etc. The aerial photographs are utilized to draw the map of the whole country in scales of 1 : 50 and 100 thousand. The measures are taken to make it possible to print these maps automatically. It is desirable to computerize these mapping works in future.	
3. SECTOR	Social Infrastructure/Survey & Mapping	(US\$1,000)	1) 2)				
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)  1) Aerial photos Scale: 1/60,000 Coverage: 31,259 sq.km 2) Topographic maps 54 plates, covering 12,070 sq.km					
5. TYPE OF STUDY	Basic Study						
6. COUNTERPART AGENCY	Instituto Geografico Nacional						
7. OBJECTIVES OF STUDY	Preparation of basic information for development planning						
8. DATE OF SAV	1977/1	4. CONDITIONS AND DEVELOPMENT IMPACTS  Maps will be utilized as basic information for development planning.					
9. CONSULTANT(S)	International Engineering Consultants Association						
10. STUDY TEAM  No. of Members    17 Period    Jun. 1977 - Feb. 1987 (115 months)  Total M/M            Japan            Field					2. MAJOR REASONS FOR PRESENT STATUS		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					3. PRINCIPAL SOURCE OF INFORMATION		
					①, ②		
12. EXPENDITURE  Total                    957,287 (¥000) Contracted		5. TECHNICAL TRANSFER					

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

Compiled Mar.1990  
Revised Mar.1996

CSA PER/S 202B/86

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY	Peru	1.SITE OR AREA	Existing Lima Int'l Airport in Lima, Peru			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY	Development Project of Jorge Chavez Lima-Callao International Airport	2.PROJECT COST (US\$1,000) (US\$1=240Yen)	M/P 1) 99,022 Local Cost 2) F/S 1) 13,700 2) 3)	38,229 Foreign Cost	60,773	(Description) Delayed after the completion of F/S.  (FY1991 Overseas Survey) «M/P» The proposals of the study was incorporated into the national air navigation plan. Due to the reduction of technical personnel and budget allocations, steps necessary for the plan realization has been slowed down. «F/S» The Ministry still assigns high priority to the proposed project, and hopes to revive its implementation by undertaking detailed design with external assistance.  (FY1992 Overseas Survey) The F/S is discontinuation. The reduction of budget has slowed down the project. The Ministry, however, still assigns high priority to the project and hopes to revive its implementation by under taking the F/S and the DVD with external assistance.  (FY1993 Overseas Survey) Since the existing master plan becomes not fit for the present situations, it will be necessary to amend the master plan posed on the present circumstances, and to carry out the survey works in order to improve the access roads to the Airport.  (FY1994 Domestic Survey) The government has succeeded in acquiring a project loan from IFRD in the amount of US\$150 million for the rehabilitation of Lima International Airport runway. Airport engineering consultants are being selected for design and construction supervision.  (FY1995 Domestic Survey) To draw up the M/P of the terminal for passengers by the financial aid from the US Trade and Development Agency of U.S. Government has been decided to be cancelled from September, 1995. The construction of the runway will be financed by IFRD. At present, selecting an adequate consultant for the construction administration.  (FY1995 Overseas survey) ICAO's F/S is not better than the ICAO's master plan of this project on 1976. It is necessary to re-investigate the M/P/F/S to fit in the present circumstances. And supplementary, the survey for improvement of runway should be carried out.		
3.SECTOR	Transportation/Air Transportation & Airport	3.CONTENTS OF MAJOR PROJECT(S)	«M/P» The Master plan was formulated to meet the demand of 2005 and the improvement measures to be taken under the master plan are summarized as follows: 1)Grading of Runway Strip 2)Biluminous overlay of Runway 3)Bituminous overlay of Taxiway and construction of a high-speed exit taxiway 4)Expansion of Apron with concrete pavement 5)Expansion of main terminal building and construction of satellites 6)Relocation of export cargo terminal and customs office 7)Construction of a Airport administration building 8)Relocation of Fire station 9)Expansion of car parks 10)Replacement of VOR aid NDB, introduction of MCo, and installation of weather data recorder. «F/S» The short-term development plan of the airport was prepared, to solve the problems of the existing facilities and also to meet the demand of 1995. The improvement measures for the short-term development plan are summarized as follows. 1)Biluminous overlay of Runway(3,507m x 45m) 2)Construction of a high-speed exit taxiway 3)Expansion of Apron(31 spots) 4)Expansion of Main terminal building and construction of satellites(40,000m <sup>2</sup> ) 5)Relocation of export cargo terminal and customs office(14,000m <sup>2</sup> ) 6)Expansion of Car parks(1,370 cars) 7)Replacement of VOR and NDB, introduction of PAR, upgrading of AIS to Cat-II.					
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 33.60 EIRR2) EIRR3)	FIRR1) 41.0 FIRR2) FIRR3)	2.MAJOR REASONS FOR PRESENT STATUS -Accumulation external debts and deterioration of the economy. -Political and social destabilization.		
5.TYPE OF STUDY	M/P+F/S	10.STUDY TEAM	Conditions and Development Impacts: [Conditions]«M/P» Air transport demand forecast and airport facility requirement in 2005 are summarized as follows. 1)Int. and Dom. Passenger:2,000,000, 2,360,000 2)Runway = 3,507m x 45m 3)Apron:34 spots 4)ax. terminal Bldg.:60,000 m <sup>2</sup> 5)Int. Cargo Bldg.:25,000m <sup>2</sup> «F/S» 1)Installation considered 2)Exchange rate:US\$1.0:Yen 240 3)Analysis period:20 years from 1991 to 2010 [Development Impacts]«M/P» 1)Secure air safety 2)Maintain a service level of international standard 3)Foreign exchange earning 4)Time saving effects of air passengers 5)Employment effects and Economic multiplier effects «F/S» 1)Secure air safety by replacement of navigation facilities 2)Maintains a service level of international standard by expansion of terminal facilities, apron etc. 3)Net increase of tourism income by foreign passengers 4)Airport revenue increments by foreign aircraft and foreign passengers 5)Employment effect, Economic multiplier effect and adleration of the national economic development.					
6.COUNTERPART AGENCY	Ministerio de Transportesy Comunicaciones	9.CONSULTANT(S)	Imp. Period: 1987. -1995. Japan Airport Consultants, Inc.				3.PRINCIPAL SOURCE OF INFORMATION ①, ② Ministry of Transport and Communications	
7.OBJECTIVES OF STUDY	To make up Master Plan(2005). To examine technical, economic and financial feasibility of the short-term(1995) development project.	12.EXPENDITURE	Total 129,645 (¥000) Contracted 116,180					
8.DATE OF S/W	1984/11							

和名 リマ国際空港整備計画

[M/P+F/S]

# PROJECT SUMMARY (M/P)

Compiled Mar. 1990  
Revised Mar. 1996

CSA PER/S 101/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS												
1. COUNTRY	Peru	1. SITE OR AREA	Rimac river basin 3,500 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	Disaster Prevention Project in the Rimac River Basin	2. PROJECT COST	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%; border: none;">(US\$1,000)</td> <td style="width: 10%; border: none;">1)</td> <td style="width: 10%; border: none;">Total Cost</td> <td style="width: 10%; border: none;">84,640</td> <td style="width: 10%; border: none;">Local Cost</td> <td style="width: 10%; border: none;">Foreign Cost</td> </tr> <tr> <td style="border: none;">(US\$1=130Yen)</td> <td style="border: none;">2)</td> <td colspan="4" style="border: none;"></td> </tr> </table>		(US\$1,000)	1)	Total Cost	84,640	Local Cost	Foreign Cost	(US\$1=130Yen)	2)					(Description) Owing to the political destabilization and the serious constraints in public finance, it is extremely difficult to find funds for implementing the proposals of the study.  (FY1991 Overseas Survey) The process of specifying areas for feasibility study was suspended after the Japanese expert who had been assigned for this purpose left the country because of the political and social destabilization. The National Institute of Civil Defense assigns high priority to the implementation of the proposals of the study.  (FY1992 Overseas Survey) The maps and basic data have been utilized in the determination of priority for emergency works.  (FY1993 Overseas Survey) Under the present economic situation, it will be no possibility to implement this project unless divide into several stages and carry out one by one, since it is too expensive to repair the collapsed portion according to the recommendation made by Japanese side. The maps and basic data, which come out as the results of the survey works, are very useful for the disaster prevention in this river basin. Dispatch of experts who will manage and administrate the disaster prevention in this river basin are requested.  (FY1994 Domestic Survey) (FY1995 Domestic Survey) No additional information.  (FY1995 Overseas Survey) Following to the indications of this master plan, INDC is implementing the disaster protection works at the dangerous points by their own detailed plans since this project did not provide any detailed designs. These works were designed and requested to INDC by each autonomias. - Oct., 1995, a project conforming team of JICA visited the Peru and confirmed a F/S project of disaster protection at the upper stream of the Atarjes. - The technologies introduced by this project is very high in the costs. So, it is difficult to apply. After that, in Peru, a new bank protection method has been developed, and this method is very effective, even now.
(US\$1,000)	1)	Total Cost	84,640	Local Cost	Foreign Cost												
(US\$1=130Yen)	2)																
3. SECTOR	Social Infrastructure/River & Erosion Control	3. CONTENTS OF MAJOR PROJECT(S)	Major recommendations: 1) To carry out a feasibility study soon 2) To implement non-structural measures - Establishment and implementation of land use regulation - Establishment of a coordinated administrative organ to implement the overall watershed management - Establishment of an implementing agency of disaster prevention structural measures - Training of engineers														
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	Structural measures against debris flow disaster in 7 tributaries and inundation disaster in urban areas will reduce the human and economic losses.														
5. TYPE OF STUDY	M/P	7. OBJECTIVES OF STUDY	To formulate a Master Plan for disaster prevention in Rimac river basin		2. MAJOR REASONS FOR PRESENT STATUS	The serious security problem and financial difficulty in Peru make it extremely difficult to promote the project (FY1991).											
6. COUNTERPART AGENCY	Instituto Nacional de Defensa Civil (Institute of National Defence)	8. DATE OF S/W	1986/11		3. PRINCIPAL SOURCE OF INFORMATION	①, ② Instituto Nacional de Defensa Civil											
9. CONSULTANT(S)	Hippon Keel Co., Ltd.	10. STUDY TEAM	No. of Members 9 Period Feb. 1987-Mar. 1988 (14 months)  <table style="width: 100%; border: none;"> <tr> <td style="width: 20%; border: none;">Total M/M</td> <td style="width: 10%; border: none;">Japan</td> <td style="width: 10%; border: none;">Field</td> <td colspan="3" style="border: none;"></td> </tr> <tr> <td style="border: none;">42.17</td> <td style="border: none;">20.80</td> <td style="border: none;">21.37</td> <td colspan="3" style="border: none;"></td> </tr> </table>		Total M/M	Japan	Field				42.17	20.80	21.37				
Total M/M	Japan	Field															
42.17	20.80	21.37															
11. ASSOCIATED AND/OR SUB-CONTRACTED STUDY	None	12. EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%; border: none;">Total</td> <td style="width: 10%; border: none;">157,531</td> <td style="width: 10%; border: none;">(¥'000)</td> <td colspan="3" style="border: none;"></td> </tr> <tr> <td style="border: none;">Contracted</td> <td style="border: none;">126,518</td> <td style="border: none;"></td> <td colspan="3" style="border: none;"></td> </tr> </table>		Total	157,531	(¥'000)				Contracted	126,518					
Total	157,531	(¥'000)															
Contracted	126,518																

# PROJECT SUMMARY (F/S)

Compiled Mar. 1991  
Revised Mar. 1996

CSA PER/S 301/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY Peru		1. SITE OR AREA 16 southern districts of Lima City (122 sq.m. pop. 1.8 million)				1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2. NAME OF STUDY Improvement of Sewerage System in Southern Part of Lima		2. PROJECT COST (US\$1,000) 1) Total Cost 98,301,000 Local Cost 50,857,000 Foreign Cost 47,444,000 2) 3)					
3. SECTOR Public Utilities/Sewerage		3. CONTENTS OF MAJOR PROJECT(S) The project proposes to treat the raw sewage from the Surco drainage canal and to utilize treated water for agricultural and other purposes in San Bartolo Pampas. - Intake Facility - Transmission Facility - Grit Chamber Facility - Sewerage Treatment Plant				(Description) SEDAPAL, the executing agency of this project, is aware of the importance of this project, but does not have the financial means to implement it. (FY1991 Overseas Survey) The Peruvian government submitted the application for grant aid from Japanese government in June 1990. (FY1992 Overseas Survey) 1) The Peruvian government submitted the application for Grant Aid from Japanese government in 1991. It was not yet realized. However, the Peruvian government is hoping for Japanese financial aid. 2) The archaeological evaluation study and the study of agricultural development in the San Bartolo pampas were completed. (FY1993 Overseas Survey) - Waiting for grant aid from Japanese Government. - JICA's cooperations are requested for the methods of investigation in order to get financing. 2) Official notice to raise financing, and 3) Provision of the tender documents. - This project aims : 1) Reduction of contaminating materials, 2) Protect coastal ecosystem and development of tourist enterprise, and 3) Prevention of spread the diseases caused by the headwaters. It coincides with the line and the target of the National Development Plan. (FY1995 Domestic Survey) No additional information.	
4. REFERENCE NO.		7. OBJECTIVES OF STUDY Improvement of sea water contamination around the Lima and environmental health condition.					
5. TYPE OF STUDY F/S		8. DATE OF S/W 1989/11					
6. COUNTERPART AGENCY Servicio de agua potable y alcantarillado de Lima (SEDAPAL)		9. CONSULTANT(S) Nippon Jogesuido Sekkei Co., Ltd.				2. MAJOR REASONS FOR PRESENT STATUS	
7. OBJECTIVES OF STUDY Improvement of sea water contamination around the Lima and environmental health condition.		10. STUDY TEAM No. of Members 9 Period Apr. 1989-Mar. 1990 (12 months)  Total M/M Japan Field 58.19 24.14 34.05					
8. DATE OF S/W 1989/11		Imp. Period: 1990. -1995.				3. PRINCIPAL SOURCE OF INFORMATION ①, ② SEDAPAL	
9. CONSULTANT(S) Nippon Jogesuido Sekkei Co., Ltd.		4. FEASIBILITY AND ITS ASSUMPTIONS Feasibility: EIRR1) 9.67 EIRR2) EIRR3) Yes/No EIRR1) 1.15 EIRR2) EIRR3)					
10. STUDY TEAM No. of Members 9 Period Apr. 1989-Mar. 1990 (12 months)  Total M/M Japan Field 58.19 24.14 34.05		Conditions and Development Impacts: Development Impacts: 1. The proposed sewerage system will result in benefits to individuals in the service area, such as reduction in the risk and incidence of water-borne diseases. 2. Investments in sewerage facilities will raise the value of land Note: The financial B/C ratio is 1.21.				5. TECHNICAL TRANSFER 1) 100% for counterparts on the planning and design method of transmission line, treatment and feasibility study 2) Acceptance of trainees to the JICA counterpart training program	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Topographic Survey, Geological Survey		12. EXPENDITURE Total 185,557 (¥000) Contracted 172,727					



# PROJECT SUMMARY (Basic Study)

Compiled Mar.1994

Revised Mar.1996

CSA PER/S 502/92

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS								
1. COUNTRY	Peru	1. SITE OR AREA	Lima Metropolitan Area 1,570 km <sup>2</sup>			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2. NAME OF STUDY	The Topographic Mapping of Lima Metropolitan Area	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description)  In spite that the Landuse Mapping is still be suspended due to the unexpected tragic accident (killed three JICA experts by terrorist), A14-Photographs and Topographic Maps which have already completed and delivered to Peru would be applied for promoting various urban developing projects or land preserving projects.  (FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information.  (FY1995 Overseas Survey) The topographic maps with a scale of 1/10,000 are utilized for the urban planning works to expand the metropolitan area, and the aerial photographs are used to grasp the circumstances at neighboring areas of the metropolitan area. In future, it is desirable to computerize the drawing works of topographic maps and to draw up the land utilization maps.							
3. SECTOR	Social Infrastructure/Survey & Mapping	(US\$1,000)	1) 2)										
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	1. Aerial-photographing Scale 1:10,000 1,570 km <sup>2</sup> 2. Topographic Mapping Scale 1:10,000 1,250 km <sup>2</sup> 3. Landuse Mapping Scale 1:10,000 500 km <sup>2</sup>										
5. TYPE OF STUDY	Basic Study	6. COUNTERPART AGENCY	Institute Geografico Nacional (IGN)										
7. OBJECTIVES OF STUDY	Topographic Mapping Land Use Mapping	8. DATE OF S/W	1989/9										
9. CONSULTANT(S)	International Engineering Consultants Association Aero Asahi Cor.	4. CONDITIONS AND DEVELOPMENT IMPACTS	Results of the study will provide many important fundamental information to such urban developing plans as sewage system, housing, road construction and others, and contribute promoting various urban developing and preserving projects.										
10. STUDY TEAM	No. of Members 20 Period Feb.1990-Jul.1992 (29 months)	2. MAJOR REASONS FOR PRESENT STATUS	Basic map information are very important for the land development plans or land preservation plans.										
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td style="text-align: center;">80.57</td> <td style="text-align: center;">25.12</td> <td style="text-align: center;">55.45</td> </tr> </table>	Total M/M	Japan	Field	80.57	25.12	55.45	3. PRINCIPAL SOURCE OF INFORMATION	①, ②				
Total M/M	Japan	Field											
80.57	25.12	55.45											
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Aerial photography Servicio Aerofotografico Nacional (SAN)	5. TECHNICAL TRANSFER	Through the execution of the Study, technical transfer was considered to the IGN counterpart personnel.										
12. EXPENDITURE	Total 617,462 (¥'000) Contracted 586,673												

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

Compiled Mar. 1993  
Revised Mar. 1996

CSA T/OS 201B/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Trinidad and Tobago	1. SITE OR AREA	Water supply area of four main water purification plants (Caroni, North Oropouche, Navet and Hollis) on the Trinidad Island (70% of the water supplied population on the Trinidad Island)		
2. NAME OF STUDY	Improvement of Water Supply Supervisory System	2. PROJECT COST			
3. SECTOR	Public Utilities/Water Supply	M/P 1) 85,530 Local Cost 2) 46,367 F/S 1) 11,089 3) 35,278	I. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled		
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)			
5. TYPE OF STUDY	M/P+F/S	<M/P> The master plan for the Water Supply Supervisory System (WSSS) will be implemented in two stages, viz. The 1st Stage Plan (1992-1995) and the 2nd Stage Plan (1996 - 2005). The System comprises two sub-system, namely, the Central Supervisory System (CSS) which covers four large systems (Caroni/Atena, North Oropouche, Navet and Hollis) and nearby medium and small systems, and the Local Supervisory System (LSS), which consists of numerous small-sized facilities. Major facilities Proposed: - Expansion of CSS Building ; - Central equipment of CSS, Repeater Station, Work stations with CRTs at regional offices; - RTU stations - Remote operation unit of booster pumping stations; - Remote control unit with mini-graphic of flow control valves; - Monitoring equipment flow meters, level meters & pressure gauges and flow control valves at strategic points in waterworks and the transmission/distribution system <F/S> Feasibility analysis was undertaken on the 1st Stage Plan proposed in the Master Plan. Major facilities proposed: 1) Central data processing system (CDPS) 2) 48 remote terminal units 3) Data radio communication system 4) Field instruments and equipment 5) Remote control equipment on booster pumping facilities and control valves 6) 139 flow meters and 106 motor-driven valves on production facilities and transmission/distribution mains 7) 21 level meters and 111 pressure gauges on production and transmission/distribution facilities			
6. COUNTERPART AGENCY	Ministry of Settlements and Public Utilities Water and Sewerage Authority (WASA)				4. FEASIBILITY AND ITS ASSUMPTIONS
7. OBJECTIVES OF STUDY	Formation of M/P on the WASA Water Supply Supervisory System (target year: 2000) for the improvement and expansion of the central water operation and management and F/S.	Imp. Period: 1992. -1995.	(Description) The study proposed the project implementation in three stages, and proposed that the detailed design study for the 1st stage be started sometime during the latter half of 1992. No concrete action has been taken with respect to the proposed D/D. The seepage control was among the study's suggestions which do not directly concern the proposed project, and is now underway by IWB financing. (FY1992 Overseas Survey) The implementation of D/D is preparing now. The aim of it is to provide the measuring facilities in the commercial and industrial sections. In order to fulfill the JICA's precondition for the project execution loan from the world bank was requested. The data of the project are utilized by IWB and others. (FY1993 Overseas Survey) Source of fund hasn't been decided yet at the time of September 1993. (FY1994 Domestic Survey) (FY1995 Domestic Survey) No additional information.		
8. DATE OF S/W	1988/5	4. FEASIBILITY AND ITS ASSUMPTIONS			
9. CONSULTANT(S)	Nihon Suido Consultants Co., Ltd. Nippon Koei Co., Ltd.	Feasibility: EIRR1) 9.60 IRR1) 0.30 Yes EIRR2) IRR2) EIRR3) IRR3)	2. MAJOR REASONS FOR PRESENT STATUS <M/P> Planning Frame: 1990 1995 2005 Pop. in service area ('000) 1,192 1,299 1,540 Served pop. (dist.) 1,133 1,234 1,463 Water demand ('000 cu.m/day) 666.3 641.9 639.5 (assumed unaccounted-for water) (50%) (40%) (20%) <F/S> [Assumptions] By undertaking intensive wastage control measure, it is assumed that the unaccounted-for water (UFW) rate to be substantially improved from the present 50% to a rather optimistic 40% in 1995. The future water demand in the project area, including UFW, is projected to increase from 531,000 cu.m/day in 1990 to 513,000 cu.m/day in 1995. Dependable yields from the water sources in dry season, which would more than satisfy the projected water requirement. [Impacts] The average tariff rate should be raised as follows. EIRR 8% 10% 12% (0.3%) Av. tariff (TTS/cu.m) 1.74 1.98 2.24 (0.99)		
10. STUDY TEAM	No. of Members 10 Period Sep. 1989-Aug. 1991 (27 months)	5. TECHNICAL TRANSFER			
Total M/M	Japan 32.88	Q37 for the duration of the development study, especially the transfer of techniques on inventory survey, water leak survey and protection, discharge survey, and water supply analysis.			
77.76	44.88				3. PRINCIPAL SOURCE OF INFORMATION
11. ASSOCIATED AND/OR SUB-CONTRACTED STUDY	None	①, ②			
12. EXPENDITURE	Total 252,189 (¥000) Contracted 235,819				

01名 水管理計画

# PROJECT SUMMARY (M/P)

Compiled Mar. 1990  
Revised Mar. 1996

CSA URYA 101/86

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1. COUNTRY	Uruguay	1. SITE OR AREA	Existing forest and incentive areas of forestation 2,700,000ha			1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2. NAME OF STUDY	Establecimiento de plantaciones de arboles y utilizacion de la madera plantada	2. PROJECT COST					Total Cost    Local Cost    Foreign Cost					
3. SECTOR	Forestry/Forestry & Forest Conservation	(US\$1,000)	1)			<p>(Description)</p> <p>After the World Bank approval of a loan for reforestation, the Government of Uruguay requested the Japanese Government to undertake a feasibility study (including a Reforestation Manual). The study was duly implemented by JICA during 1989 - 1990. In addition, a JICA expert (tree breeding) was assigned to Uruguay.</p> <p>(FY1994 Domestic Survey) The F/S was implemented as the JICA Development Study, which was "5-year Plan of National Reforestation", based upon this M/P.</p> <p>(FY 1994 Overseas Survey) The afforestation is promoted under the five-year afforestation plan which covers the area of 200 thousand hectare, double size of the original plan. The financing for the administration of this afforestation project is obtained by the loan of the World Bank, etc..</p> <p>(FY1995 Domestic Survey) No additional information.</p>						
4. REFERENCE NO.		2)										
5. TYPE OF STUDY	M/P	3. CONTENTS OF MAJOR PROJECT(S)										
6. COUNTERPART AGENCY	Forest Department Ministry of Cattle Raising Agriculture and Fishery	1) Establishment of guidelines for wood utilization 2) Establishment of a master plan of reforestation 3) Measures for improvement of wood industries 4) Establishment of system to promote the reforestation 5) Enhancement of social and public function of forests										
7. OBJECTIVES OF STUDY	(1) Preparation of a forest plan for tree plantation (2) Efficient utilization of timber produced from tree plantation	4. CONDITIONS AND DEVELOPMENT IMPACTS										
8. DATE OF S/W	1986/1	1) Import substitution by the increase of national wood production 2) Development of export industry including logs and pulp and paper, etc. 3) Regional development 4) Improvement of the productivity of inadequate land for agriculture and cattle raising 5) Conservation of national land										
9. CONSULTANT(S)	Japan Overseas Forestry Consultants Association	10. STUDY TEAM										
		No. of Members    5 Period    Jul. 1986 - Jun. 1987 (8.5 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;">26.50</td> <td style="text-align: center;">17.50</td> <td style="text-align: center;">9.00</td> </tr> </table>			Total M/M		Japan	Field	26.50	17.50	9.00	
Total M/M	Japan	Field										
26.50	17.50	9.00										
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY			2. MAJOR REASONS FOR PRESENT STATUS							
12. EXPENDITURE		5. TECHNICAL TRANSFER			1) Uruguayan Government approved the M/P of the report of JICA as the national long term forestation plan of Uruguay; and 2) based on this plan, the government decided to establish the national five year forestation plan, which was prepared in 1989 and 1990 with JICA cooperation.							
Total	89,434 (¥000)	1) Method of the estimation of increment; 2) Formation of the system of forestation technology; 3) Method of the estimation of wood demand; 4) Method of the establishment of guidelines of wood utilization; and			3. PRINCIPAL SOURCE OF INFORMATION							
Contracted	77,439				①, ②							

和名 造林・木材利用計画

[M/P, Basic Study, Other]



# PROJECT SUMMARY (F/S)

Compiled Mar. 1991  
Revised Mar. 1996

CSA URY/S 301/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Uruguay	1. SITE OR AREA		Uruguay: 176,000 sq. km, population 3.01 million. Montevideo(Capital): population 1.36 million		1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY		2. PROJECT COST		Total Cost	Local Cost	(Description) Project has been suspended since the completion of F/S in March 1990. The worst economic situation has virtually prevented the Government from seeking a new loan from the developed countries. The following procurement works have been conducted in an extremely small scale: 1) There was no duty-free shops inside the terminal building, and the Government has acquired these shop facilities in January 1991 through competitive tendering method. 2) Direccion General de Infraestructura Aeronautica (DGIA) invited tenders for procurement of ground support equipment such as passenger and cargo handling equipment and airport support vehicles in February 1992.  The amount of Uruguayan GNP per capita was US\$2,560 in 1989 and is far greater than the eligibility per capita limit of US\$1,235 which is set for concessionary loan (OSCF). There will be no likelihood that OECF will approve any loan for this project for this eligibility reason alone.  (FY1993 Overseas Survey) The term of reference for the consultants has been made with the cooperation from UNDP and ICAO. The government approved to allocate some of particular financing. Additionally, financial support from FONPLATA will be available. It is very urgent to repair the access roads.  (FY1994 Domestic Survey) The country's GNP per capita rises to US\$2,620 in 1989, which prohibited official development assistance from DAC foreign governments such as Germany, Italy and France. The government seeked foreign investment in a form of BOT(built-operate-transfer), inviting foreign joint ventures, but no successful contract had been made to put ahead the project.  (FY 1994 Overseas Survey) The work proposed by this F/S is consisted of 3 grades. Each of them was not implemented, however, F/S, detail design and preparation of tender documents, concerning with arrangement works of the main runway 06/24 for the year of 1994 (in 70% scale of grade 3), are ordered to a consultant. It is planned to commence the designing at the beginning of 1995 and the construction in January, 1996. But the financial resources are not disclosed.	
Development Plan of the International Airport of Carrasco		(US\$1,000)		49,681	28,917		
		(US\$1=900N)		2)			
				3)	20,964		
3. SECTOR		3. CONTENTS OF MAJOR PROJECTS					
Transportation/Air    Transportation    &    Airport		The study examined 3 alternatives of 1)Grade 1, 2)Grade 2, and 3)Grade 3. Major development components are as follows. 1)Improvement of Main runway, taxiway and apron/stabilization of deteriorated portion by means of overly during unoperational night time hours) 2)Improvement of secondary runway(day-time pavement overly, Grades 1 and 2) 3)Extension of the short haul aircraft (from 1,750m to 2,050m Grade 1 only) 4)Renewal or upgrading of navigation aids 5)Installation of terminal equipment (such as metal detector, etc.					
4. REFERENCE NO.		4. FEASIBILITY AND RIS ASSUMPTIONS					
5. TYPE OF STUDY		F/S		Feasibility:	EIRR1) 16.10    EIRR2) 17.50    EIRR3) 19.90	5.70	
6. COUNTERPART AGENCY		Conditions and Development Impacts: Economic evaluation: This project is economically feasible since the opportunity cost of capital is estimated to be 12.0%. Financial evaluation: Under the current airport tariff structure, FIRR is negative in all three alternatives. If the tariff be raised by 100%, the FIRR will be positive for Grades 2 and 3 as shown above. The assumptions on fund procurement are as follows.					
7. OBJECTIVES OF STUDY		Improvement of runway, taxiways and apron. Renewal or upgrading of navigation aids		Foreign    Local Grade 2    Soft Loan    Government own finance Grade 3    Hard Loan    without any repayment			
8. DATE OF S/W		1988/11		Imp. Period: 1991 - 1994.			
9. CONSULTANT(S)		Japan Airport Consultants, Inc.					
10. STUDY TEAM		No. of Members    9 Period Apr. 1989-Mar. 1990(12 months)  Total M/M    Japan    Field 40.00    21.00    19.00					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Topographic Mapping, Longitudinal and transversal levelling of runways, taxiways and apron. Geological and pavement survey					
12. EXPENDITURE		Total		157,531 (¥000)		3. PRINCIPAL SOURCE OF INFORMATION	
		Contracted		139,600		①, ② Transportation / Air, ③	

和名 カラスコ国際空港整備計画

## 状況 (要約表添付文書)

CSA URY/S 301/89	(F/S)
Name of Development Plan of the International Airport of Carrasco Study	
Country	Uruguay
Type of Study	F/S
Sector	Transportation/Air Transportation & Airport
Present Status:	Promoting
(Description)	
Project has been suspended since the completion of F/S in March 1990. The worst economic situation has virtually prevented the Government from seeking a new loan from the developed countries.	
The following procurement works have been conducted in an extremely small scale:	
1) There was no duty-free shops inside the terminal building, and the Government has acquired these shop facilities in January 1991 through competitive tendering method.	
2) Direction General de Infraestructura Aeronautica (DGIA) invited tenders for procurement of ground support equipment such as passenger and cargo handling equipment and airport support vehicles in February 1992.	
The amount of Uruguayan GNP per capita was US\$2,560 in 1989 and is far greater than the eligibility per capita limit of US\$1,235 which is set for concessionary loan (OECP). There will be no likelihood that OECP will approve any loan for this project for this eligibility reason alone.	
(FY1993 Overseas Survey) The term of reference for the consultants has been made with the cooperation from UNDP and ICAO. The government approved to allocate some of particular financing. Additionally, financial support from FONPLATA will be available. It is very urgent to repair the access roads.	
(FY1994 Domestic Survey) The country's GNP per capita rises to US\$2,620 in 1989, which prohibited official development assistance from DAC foreign governments such as Germany, Italy and France. The government sought foreign investment in a form of BOT (built-operate-transfer), inviting foreign joint ventures, but no successful contract had been made to put ahead the project.	
(FY 1994 Overseas Survey) The work proposed by this F/S is consisted of 3 grades. Each of them was not implemented, however, F/S, detail design and preparation of tender documents, concerning with arrangement works of the main runway 06/24 for the year of 1994 (in 70% scale of grade 3), are ordered to a consultant. It is planned to commence the designing at the beginning of 1995 and the construction in January, 1996. But the financial resources are not disclosed.	
(FY1995 Domestic Survey) For this project, it has been learnt that the Government is eagerly trying to materialize by means of invitation to the BOT tender and so on, however, no news of success come out as yet. For the development of Punta del Este Airport, located at a tourist resort, Canadian cooperation has been decided by the group which promoted the privatization of Tronto Airport. It is also by means of BOT process. Under the present situation that there are no official foreign financial aid including Yen Credit, it will be inevitable to try to find private financing.	

# PROJECT SUMMARY (F/S)

Compiled Mar.1992  
Revised Mar.1996

CSA URY/A 301/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																					
1. COUNTRY	Uruguay	1. SITE OR AREA				1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																				
2. NAME OF STUDY		Afforestation promoting area at Paysandu and Tacuarebo Districts.				(Description)																					
National Reforestation Plan		2. PROJECT COST																									
3. SECTOR		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">1)</td> <td style="width: 15%;">Total Cost</td> <td style="width: 15%;">Local Cost</td> <td style="width: 15%;">Foreign Cost</td> </tr> <tr> <td>Forestry/Forestry &amp; Forest Conservation</td> <td></td> <td style="text-align: center;">73,896</td> <td></td> <td></td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>					1)	Total Cost	Local Cost	Foreign Cost	Forestry/Forestry & Forest Conservation		73,896				2)					3)				1) The World Bank loan for reforestation was fully disbursed. 2) The newly elected President doubled the five-year target of the National Reforestation Plan from 100,000 to 200,000ha. 3) In view of the growing export (Eucalyptus for pulp) to Europe, the Government of Uruguay is trying to obtain new external funds (bilateral ODA and private capital) for reforestation.  [FY1993 Overseas Survey] Reforestated area during 1990 to 1992 was 18,000ha per annum in average. On the year of 1993, this figure becomes 26,000ha. During recent 4 years, the reforestation progressed very rapidly. Capital investment for forestry is also increasing considerably and the exploitation of precious timber has been commenced. This project is financed by the World Bank.  [FY1994 Domestic Survey] Under the circumstance mentioned above, waiting for the expansion of investment from abroad.  [FY1994 Overseas Survey] At present, under the 5-year afforestation plan which covers 200 thousand hectares, double size of the original plan, the afforestation are continuously promoted. Fund for the administration of afforestation has been obtained through financing by the World Bank, etc..  [FY1995 Domestic Survey] At present, the authority concerned is still trying to get more foreign investment in order to implement this project. And also it is considering to make F/S for maintenance of the natural forests.	
	1)	Total Cost	Local Cost	Foreign Cost																							
Forestry/Forestry & Forest Conservation		73,896																									
	2)																										
	3)																										
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)																									
5. TYPE OF STUDY		The study proposed the reforestation of some 100,000 ha during five years, by planting eucalypti, pines, poplars and willows. Annual planting targets are as follows.																									
6. COUNTERPART AGENCY		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">1991</td> <td style="width: 15%;">10,000 ha</td> </tr> <tr> <td>1992</td> <td>15,000</td> </tr> <tr> <td>1993</td> <td>20,000</td> </tr> <tr> <td>1994</td> <td>25,000</td> </tr> <tr> <td>1995</td> <td>30,000</td> </tr> </table>						1991	10,000 ha	1992	15,000	1993	20,000	1994	25,000	1995	30,000										
1991	10,000 ha																										
1992	15,000																										
1993	20,000																										
1994	25,000																										
1995	30,000																										
7. OBJECTIVES OF STUDY		Imp. Period: 1991.1-1995.2				2. MAJOR REASONS FOR PRESENT STATUS																					
to make the implementation plan on national five year plan of tree planting and to execute the F/S of the plan.		4. FEASIBILITY AND ITS ASSUMPTIONS																									
8. DATE OF S/W		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">1989/4</td> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">FIRR1) 15.23</td> <td style="width: 15%;">FIRR1) 13.80</td> </tr> <tr> <td></td> <td>Yes</td> <td>FIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td></td> <td>FIRR3)</td> <td>FIRR3)</td> </tr> </table>				1989/4	Feasibility:	FIRR1) 15.23	FIRR1) 13.80		Yes	FIRR2)	FIRR2)			FIRR3)	FIRR3)	Conditions and Development Impacts: [Conditional] 1) Increase and training of forestry experts in the government and the private sector 2) Institutional improvement of forestry-related research 3) Expansion of subsidization programs 4) Promotion of timber marketing and processing [Impact] 1) Stable supply of timber 2) Increase of forestry resources for export 3) Improvement of water catchment and soil conservation									
1989/4	Feasibility:	FIRR1) 15.23	FIRR1) 13.80																								
	Yes	FIRR2)	FIRR2)																								
		FIRR3)	FIRR3)																								
9. CONSULTANT(S)		Japan Overseas Forestry Consultants Association																									
10. STUDY TEAM		5. TECHNICAL TRANSFER				3. PRINCIPAL SOURCE OF INFORMATION																					
No. of Members 17 Period Oct.1989-Mar.1991(17 months)		1) Transfer of methodology during the period of the study and at the seminar 2) Compilation of a Technical Handbook of Reforestation																									
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total M/M</td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> </tr> <tr> <td style="text-align: center;">57.00</td> <td style="text-align: center;">29.88</td> <td style="text-align: center;">25.28</td> </tr> </table>		Total M/M	Japan	Field	57.00	29.88	25.28					① Forestry/General, ②, ③															
Total M/M	Japan	Field																									
57.00	29.88	25.28																									
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY																											
Preparation of a Reforestation Handbook																											
12. EXPENDITURE																											
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">191,747 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>177,771</td> </tr> </table>		Total	191,747 (¥000)	Contracted	177,771																						
Total	191,747 (¥000)																										
Contracted	177,771																										

和名 国家造林5ヶ年計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

Compiled Mar. 1994  
Revised Mar. 1996

CSA URY/S 302/92

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Uruguay	1. SITE OR AREA	Montevideo			1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Development of New Port Terminals at Montevideo Port	2. PROJECT COST (US\$1,000)	1) 94,818	Local Cost 54,769	Foreign Cost 40,049		
3. SECTOR	Transportation/Port	3. CONTENTS OF MAJOR PROJECT(S)	2) 7,564	4,676	2,888	(Description) (FY1993 Overseas Survey) The implementation of this project delayed due to low effectiveness of the investment. Foreign fishing terminal should be reconsidered based on the expected number of vessels in and out from the terminal. For Grain terminal, it was suggested to be implemented through out the private investment or joint venture according to the new Port's Policy. After a new Port's Law approval in 1992, the most of the authorities' energy was devoted to increase the port efficiency with the private sector participation and internal reorganization rather than to develop new infrastructure that primarily seemed not to be the first priority. (FY1994 Overseas Survey) At present, there is no implementation plan of this project. Since the plan of the arrangement of river transportation route between Rosario, Argentine to the Atlantic Ocean is being carried on, the meaning of this project as for a transship point of the port of Montevideo becomes suspicious. The government of Uruguay wishes to develop a new port with a deep draft along the Atlantic Coast, and sounded the possibility to get the technical transfer of concerning technologies to the government of Japan. (FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information.	
4. REFERENCE NO.		- Grain Terminal (1998)( Proposed project cost 1 ) ) Depth : 12m Length : 270m Silo : 93,000 ton	3)				
5. TYPE OF STUDY	F/S	- Foreign Fishing Terminal (1998)( Proposed project cost 2 ) ) Depth : 5m, 6m Length : 415m					
6. COUNTERPART AGENCY	National Administration of Ports (ANP)						
7. OBJECTIVES OF STUDY	To prepare a F/S of the short-term form Development Plan for main port facilities in Montevideo Port for the period up to the year 1988.						
8. DATE OF S/W	1991/3	Imp. Period:	1994. -1997.	1996. -1997.			
9. CONSULTANT(S)	Overseas Coastal Area Development Institute Nippon Tetrapod Co., Ltd.	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) 11.30 EIRR2) 15.90 EIRR3)	FIRR1) 8.50 FIRR2) 8.00 FIRR3)		
10. STUDY TEAM	No. of Members 8 Period Jan. 1992-Dec. 1992 (11 months)	Conditions and Development Impacts: EIRR/FIRR 1) Grain Terminal 2) Fishing Terminal					
	Total M/M      Japan      Field 45.10            19.10            26.00	<Conditions> - Grain Terminal 1993 : 2,000,000 ton - Fishing Terminal 1998 : 500 ships (under 1,000 GRt)					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	<Development Impacts> - Saving River Areas transportation cost of grain cargoes - Promotion of economic growth					
12. EXPENDITURE	Total                    193,076 (¥000) Contracted            171,038	5. TECHNICAL TRANSFER					
		1) Promotion of technical transfer by joint study 2) Counterpart training					
					2. MAJOR REASONS FOR PRESENT STATUS		
					3. PRINCIPAL SOURCE OF INFORMATION		
					① Transportation/Port, ②, ③		

# PROJECT SUMMARY (M/P)

Compiled Mar.1986  
Revised Mar.1996

CSA VEN/S 101/80

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS										
1.COUNTRY	Venezuela	1.SITE OR AREA	Puerto Cabello		1.PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input checked="" type="checkbox"/> Discontinued								
2.NAME OF STUDY Design on Cargo Handling Equipments		2.PROJECT COST		(Description) The Project was cancelled as a result of the negotiations between the INP and the dockworkers union in that the improved cargo handling operations would cause unemployment.  (FY1994 Domestic Survey) No information.  (FY1994 Overseas Survey) It already passes more than 15 years after completion of this M/P. The project had been cancelled as the organization in charge had been privatized and changed, and without any support of the locals.										
3.SECTOR Transportation/Port		(US\$1,000) 1) Total Cost    Local Cost    Foreign Cost 2)												
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)												
5.TYPE OF STUDY M/P		The project recommended the installation of loading and unloading systems at the training facility for dockworkers, including one 5-ton derrick cranes, two 5-ton jib-crane, a mock-up 8,000-ton liner boat to simulate the actual cargo handling operation, a set of simulators for the derrick operation including electrical equipment.												
6.COUNTERPART AGENCY Institute Nacional de Puertos (INP)		4.CONDITIONS AND DEVELOPMENT IMPACTS												
7.OBJECTIVES OF STUDY Preparation of design criteria and specifications for major mechanical equipment		The project will assist the technical transfer on, and improve the service quality of, cargo handling operations.												
8.DATE OF S/W 1979/8		10.STUDY TEAM												
9.CONSULTANT(S) Japan Cargo Handling Mechanization Association		No. of Members    5 Period Aug.1979-Jul.1980 (12 months)												
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 30%; text-align: center;">Japan</td> <td style="width: 30%; text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">14.20</td> <td style="text-align: center;">12.90</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">1.30</td> </tr> </table>					Japan	Field	Total M/M	14.20	12.90			1.30
	Japan	Field												
Total M/M	14.20	12.90												
		1.30												
11 ASSOCIATED AND/OR SUBCONTRACTED STUDY		12 EXPENDITURE												
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 30%; text-align: center;">32,454 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Total</td> <td></td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">30,193</td> </tr> </table>			32,454 (¥'000)	Total		Contracted	30,193					
	32,454 (¥'000)													
Total														
Contracted	30,193													
		5. TECHNICAL TRANSFER		2. MAJOR REASONS FOR PRESENT STATUS										
				The improved cargo handling operations were considered to cause unemployment among dockworkers.										
				3. PRINCIPAL SOURCE OF INFORMATION										
				①, ③										

和名 港湾技術訓練センター建設計画

[M/P, Basic Study, Other]

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

Compiled Mar.1991  
Revised Mar.1996

CSA VEN/S 201B/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Venezuela	1. SITE OR AREA	Entire Chama River Basin (3,785 sq.m)		
2. NAME OF STUDY	Chama River Basin Conservation Project	2. PROJECT COST (US\$1,000)	M/P 1) 88,775 2) Local Cost	F/S 1) 27,575 2) 3)	Foreign Cost
3. SECTOR	Social Infrastructure/River & Erosion Control	3. CONTENTS OF MAJOR PROJECT(S)	<p>&lt;M/P&gt; The study proposed a master plan of river and flood control by projecting future development and transportation demands in the basin area through the year 2020.</p> <p>For wide area disaster prevention, the study recommended the construction of 10 units of Sabo dams, 110 units of torrent works, 1,400 units of hillside works and also 51.4km in length of river improvement.</p> <p>For the local disaster prevention project, disaster prevention works at 100 of prone to danger locations and river improvement of 5.4km in length were recommended.</p> <p>&lt;F/S&gt; Construction of 3 units Sabo dams, 18 units of torrent works, 340 units of hillside works and 35.1 km in length of downstream river improvement proposed as the wide area disaster prevention project.</p>		
4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 13.20 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)
5. TYPE OF STUDY	M/P+F/S	Imp. Period:	1991. -2000.		
6. COUNTERPART AGENCY	Ministerio del Ambiente y de los Recursos Naturales Renovales	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 13.20 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)
7. OBJECTIVES OF STUDY	Downstream Basin Flood Control and Upstream Sabo Projects of Chama River	10. STUDY TEAM	<p>Conditions and Development Impacts:</p> <p>&lt;M/P&gt; The effects of development:</p> <p>1) 7,480,000 cu.m out of 9,600,000 cu.m of the design annual sediment discharge will be detained and controlled by Sabo facilities.</p> <p>2) The remaining balance of 2,120,000 cu.m is safely discharged by the increase of sediment load discharge capacity through river channel improvement.</p> <p>The flood control of downstream inundation will be done by Chama River channel improvement at 100-year probable rate of flow of 2,300 cu.m/s. The annual average benefit is estimated at 231 million bolivares.</p> <p>&lt;F/S&gt; The construction period is 10 years ending in the year 2000.</p> <p>Proposed sabo facilities will be implemented in accordance to the order of priority suggested in the master plan. The project will detain and control one-third of the estimated sediment discharge of 3.6 million cu.m. River improvement will eliminate up to 1,450 cu.m/s of the down-stream inundation with a 10-year probable rate of flow.</p>		
8. DATE OF SAV	1988/6	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>Surveying work, construction of Observation Stations</p>		
9. CONSULTANT(S)	CTI Engineering Co., Ltd. Nippon Koei Co., Ltd.	12. EXPENDITURE	<p>Total 273,306 (¥000) Contracted 243,477</p>		
		5. TECHNICAL TRANSFER	<p>GI* for the counterparts on hydrologic observation procedures. Conducted a seminar on flood control and sabo planning.</p>		
		2. MAJOR REASONS FOR PRESENT STATUS			
		3. PRINCIPAL SOURCE OF INFORMATION	①, ②, ③		
		I. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled		
		(Description)	<p>The Government of Venezuela applied for an IDB loan on the basis of the Action Plan proposed by the Master Plan. To promote the project implementation, one Japanese Sabo expert was assigned in June 1990.</p> <p>[FY1991 Overseas Survey] The proposed project was initially high in priority, but not any longer. There is no prospect of procuring finance, and the project has not been integrated to the national development plan. There is a possibility of reviving the project, but the timing is yet unknowable.</p> <p>[FY1994 Domestic Survey] No additional information.</p> <p>[FY1994 Overseas Survey] This project was not implemented. The financing for this project was requested to IDB on 1990, but it failed. It is planned to try it again after making the detail plan and the administering organizations more clear. The recipient country wishes to implement the works of IDB finance first, and to realize the whole of JICA's tasks as the second.</p> <p>[FY1995 Domestic Survey] It was planned to implement by the financing of IDB, however, suspended due to the lack of fund.</p>		

和名 チャマ川流域防災計画

# PROJECT SUMMARY (M/P)

Compiled Mar. 1995  
Revised Mar. 1996

CSA VEN/S 111/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1. COUNTRY	Venezuela	1. SITE OR AREA	The Apure river basin having catchment area of 111,800 sq.km, which is one of the largest tributaries of the Orinoco River.								
2. NAME OF STUDY	Comprehensive Improvement of the Apure River Basin	2. PROJECT COST				Total Cost	Local Cost	Foreign Cost			
3. SECTOR	Social Infrastructure/River & Erosion Control	3. CONTENTS OF MAJOR PROJECT(S)	(US\$1,000)	1) 128,293	2) 93,848						
4. REFERENCE NO.		(1) Channel Stabilization Plan 1) Channel Stabilization Measures for Navigation 2) Short-term plan aims to accomplish 8 months navigation from river mouth to San Fernando port and 7 months from San Fernando port to Santos Luzardo port. 3) Mid-term plan aims to accomplish 9 months navigation from river mouth to San Fernando port and 8 months from San Fernando port to Santos Luzardo port. 4) Total cost will be US\$128,793,000 (BTR=13.7%, B/C=1.46)  (2) Flood Mitigation Plan 1) Several alternative plans such as dike, dam, retarding basin etc. were formulated and studied from engineering and environmental aspects. 2) Long-term plan aims to accomplish the entire flood management plan consisting of: 1) construction of dike on the right bank of Portuguesa river (187km long). 2) right bank of Guonare river (145km). 3) left bank of Apure river (155km). 3) Short-term plan for priority works in Long-term plan 4) Total cost is US\$93,848,000 (BTR=5.73, B/C=1.15)	(Description) 1) Concerning channel stabilization plan, M/P for navigation by International Development Bank was delayed, thus, the results could not be incorporated in this study. Therefore, F/S for channel stabilization plan will be postponed until the M/P by ITR is completed. Concerning flood management plan, environmental problems of the project have been a significant issue in Venezuela, thus, environmental impact assessment shall be an integral part of the F/S. 2) Government of Venezuela is much concerned with channel stabilization plan. Accordingly, it is quite possible that the Government of Venezuela will request Japanese Government to conduct F/S for channel stabilization plan and flood management plan after the master plan by IDB is completed.  (FY1995 Domestic Survey) No additional information.								
5. TYPE OF STUDY	M/P					6. COUNTERPART AGENCY	Ministry of Environment and Natural Resources				
7. OBJECTIVES OF STUDY	To formulate the basic concepts and measures for the comprehensive improvement of the Apure river basin for stabilization of river channels and the mitigation of flood damages.										
8. DATE OF S/W	1991/10	4. CONDITIONS AND DEVELOPMENT IMPACTS	Channel Stabilization Plan 1) Channel stabilization will be accomplished through flow improvement and channel improvement. 2) With short-term plan, 8 month navigation from river mouth to San Fernando port and 7 month navigation from San Fernando port to Santos Luzardo port will be accomplished. 3) With mid-term plan, 9 month navigation from river mouth to San Fernando port and 8 month navigation from San Fernando port to Santos Luzardo port will be accomplished.  Flood Management Plan 1) Flood managing plan with dike, dam, retarding basin etc. is established. 2) Within the study area of 21,000km <sup>2</sup> , the flood management plan will mitigate flood damages in the following area. a) Area extending on the right bank side of Cano Igues b) Area extending on the right bank side of Guonare river c) Area extending on the left bank side of Apure river d) San Fernando city and its surrounding area								
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Nikken Consultants., Inc.	10. STUDY TEAM				No. of Members 11 Period Mar. 1991-Oct. 1993 (20 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;">79.00</td> <td style="text-align: center;">34.00</td> <td style="text-align: center;">45.00</td> </tr> </table>			Total M/M	Japan	Field
Total M/M	Japan	Field									
79.00	34.00	45.00									
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	River Survey, Floody Water Survey	12. EXPENDITURE	5. TECHNICAL TRANSFER 1) Seminars for technical transfer. 2) Workshop on method of analyses (computer programs). 3) On-the-job training with small seminars.								
		6. MAJOR REASONS FOR PRESENT STATUS		1. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued							
		7. PRINCIPAL SOURCE OF INFORMATION		①, ③							

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

Compiled Mar.1994  
Revised Mar.1996

OCE COK/S 201B/92

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT		
1. COUNTRY	Cook Islands	1. SITE OR AREA	Coastline of Barotonga Is. 11.5 km long, population 18,000, 9,000 live on the island.			1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing
2. NAME OF STUDY	Coastal Protection and Port Improvement	2. PROJECT COST (US\$1,000)	M/P 1) 2) 3) I/S 1) 2) 3)	Local Cost	Foreign Cost	(Description) A Supplementary Study Team was dispatched to Cook Islands to re-formulate a new M/P from Oct. to Dec. 1993. A new M/P is expected to be completed soon and F/S will be conducted accordingly.  (FY1994 Domestic Survey) The final report was submitted in Aug.1992. Since then, the physical conditions of the coast were changed because of the removal of the breakwaters of Avatus Harbor. The additional study was conducted and the report was submitted in Sep.1994. The additional study concluded that the coastal protection works along all the northern coast was not feasible. It recommends that protection works for selected important facilities, i.e., the airport runway, fuel depot. It is still to be informed how to the Gov't of the Cook Islands will execute the protection works.  (FY1995 Domestic Survey) No additional information.	
3. SECTOR	Development Plan/(Development Plan in)General						
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)					
5. TYPE OF STUDY	M/P+F/S	<M/P> 1) Coastlines to be protected are as follows: (US\$14,626,000) - Avatus/Avatiu town area - North-east of Havaeva/Bugaga village and east end of the airport - West end of the airport - Pokuni I.R. and north-west of Tokereu/Inava village - South-west of Arca village - Akapuao and south-east of TIRIKI village - Areite, Mukupute, akoko and east of Avana village 2) Plans for port improvement are as follows: (US\$19,421,000) - Extension of container stock yard - Extension of Avatiu east breakwater, widening of port entrance and ship turning basin and deepening of basin and wharf - Rehabilitation of the existing wharf - Providing facilities for fishery activities - Marina for pleasure boats - Protection facilities for small fishing boats during cyclones <F/S>Description of Short-term Plan for 1997 are as follows: (Coastal Protection) US\$5,458,000 - Seawall constructions in front of Health Dept. and its adjacent coast, between Avatiu/Avatus town area including reclamation, along the airport's east coast, along the airport's west coast. (Port Improvement of Avatiu port area.) US\$9,974,000 - Extension and strengthening of east and west breakwaters, - Expansion of port area by way of dredging and reclamation, construction of fishing wharf and related facilities, dredging, rehabilitation of existing quay and construction					
6. COUNTERPART AGENCY	Ministry of Planning and Economic Development	4. FEASIBILITY AND ITS ASSUMPTIONS					
7. OBJECTIVES OF STUDY	1) To formulate a coastal protection along the coastline of Barotonga Is. 2) To formulate a coastal protection for Avatus/Avatiu area including port improvement plan	Imp. Period: 1997 -2010. Feasibility: Yes/No EIRR1) 10.70 EIRR2) 3.90 EIRR3) EIRR3)					
8. DATE OF SAW	1991/4	10. STUDY TEAM					
9. CONSULTANT(S)	Pacific Consultants International Overseas Coastal Area Development Institute	Conditions and Development Impacts: Assumptions: <M/P>(M/P for coastal protection) - Coastlines where overtopping heights by large cyclones are estimated 2m or higher - Coastlines where remarkable erosions were reported -To prevent environmental pollution considering the tourism industry (M/P for port improvement) -To recognize that Avatiu port is the lifeline of commodities transportation -Cargo demands to be handled in both Avatiu/Avatus ports are as follows: 2011 1997 International cargo 46,400FT(1,390TEU) 54,200FT(1,730TEU) Domestic cargo 2,400FT 2,800FT -Function allocations are Avatiu as commercial/fishery and Avatus as marine. <F/S> EIRR/FIRR are estimated on condition that the existing port management cost be eliminated by 70% and port charges be increased by 50% Effects:<M/P, F/S> -Reduction of cyclone damages by the coastal protections. Amount of the said damage reduction is estimated as					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE			2. MAJOR REASONS FOR PRESENT STATUS		
Soil Investigation and Sounding by Coastal Environment International Ltd.		Total 80,807 (¥000) Contracted 70,903			3. PRINCIPAL SOURCE OF INFORMATION ①		
12. EXPENDITURE		5. TECHNICAL TRANSFER					
		1) Counterparts accompanied the study team and carried out the investigations together. 2) One counterpart was dispatched to Japan for training course.					

和名 海岸保全・改良計画

[M/P+F/S]