

PROJECT SUMMARY (Other)

Compiled Mar.1990
Revised Mar.1996

AFR ZWE/S 601/80

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1. COUNTRY	Zimbabwe	1. SITE OR AREA	Section between Salisbury and Dapka			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Electrification of National Railways	2. PROJECT COST	(US\$1,000)	Total Cost	Local Cost	Foreign Cost	(Description) (FY1991 Overseas Survey) Proposed project was implemented and coordinated with a electrification project from Harare to Gweru. Because the Structural Adjustment Program by the World Bank recognized electrification project for major reason of deficit operation of National Railways, the project was cancelled. At present, National Railways puts priority on CTS system, telecommunication system and purchasing 50 new coaches, which are requested for economic cooperation. (FY1995 Domestic Survey) Additional informations are not available since Japan National railway, which were in charge of this project, had been divided to several private companies. (learnt from JR Eastern Japan)
3. SECTOR	Transportation/Railway	3. CONTENTS OF MAJOR PROJECT(S)	In response to the application for GECF finance on the electrification of the railway, the study examined the possibility of cooperation and evaluated two alternatives. Alternative 1: 20 new railcars and replacement of 14 diesel locomotives with electric locomotives Alternative 2: 20 new railcars				
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	(Development Impacts) 1) Reduction of diesel oil imports 2) Reduction of fuel costs by replacing with cheaper electricity 3) Reduction of maintenance costs on locomotives (including the reduction of manpower requirements) 4) Decrease of accidents and the speed-up of the railway operation 5) Efficient use of energy				
5. TYPE OF STUDY	Other	10. STUDY TEAM	No. of Members 7 Period Nov. 1980-Dec. 1980 (1 months) Total M/M Japan Field				
6. COUNTERPART AGENCY	Ministry of Transport and Energy	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY					
7. OBJECTIVES OF STUDY	Examination of the possibility of Japan's cooperation with the proposed railway electrification project	12. EXPENDITURE	9,382 (¥000)				
8. DATE OF S/W	/	5. TECHNICAL TRANSFER	③				
9. CONSULTANT(S)		2. MAJOR REASONS FOR PRESENT STATUS					
		3. PRINCIPAL SOURCE OF INFORMATION					

和名 国鉄電化計画

PROJECT SUMMARY (M/P)

Compiled Mar. 1986
Revised Mar. 1996

AFR ZWE/S 101/83

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS												
1. COUNTRY	Zimbabwe	1. SITE OR AREA	Southeastern part of midlands Province and Western part of Masvingo Province			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued										
2. NAME OF STUDY	Rural Water Supply Programme in Communal Lands in Parts of Masvingo and Midlands Provinces	2. PROJECT COST	(US\$1,000)	Total Cost	Local Cost	Foreign Cost	(Description) Projects in Midlands Province were financed in 1983-84 with the Japanese grant aid of 800 million yen (Boring of 100 wells, two thirds of the 1st year projects). Those in Masvingo Province were financed by the IEC grant. (FY1994 Domestic Survey) Basic Design was implemented in 1994. The project is planned to start in 1995. (FY1995 Domestic Survey) In 1995, the project is being implemented.										
3. SECTOR	Public Utilities/Water Supply		1)	53,079	33,218	19,861											
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	2)														
5. TYPE OF STUDY	M/P	Annual construction of 295 deep wells for 10 years, i.e. 2950 in total, in expectation of supporting 250 people per well.															
6. COUNTERPART AGENCY	Ministry of Water Resources and Development	Village Canon Area Number of wells (in 1993)															
7. OBJECTIVES OF STUDY	Reservation of sanitary clear water resources by the development of underground water	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Mberengwa</td> <td style="width: 15%; text-align: right;">775</td> </tr> <tr> <td>Chibi</td> <td style="text-align: right;">702</td> </tr> <tr> <td>Shurugwi</td> <td style="text-align: right;">235</td> </tr> <tr> <td>Chilimazi & others</td> <td style="text-align: right;">878</td> </tr> <tr> <td>total</td> <td style="text-align: right;">2,590</td> </tr> </table>						Mberengwa	775	Chibi	702	Shurugwi	235	Chilimazi & others	878	total	2,590
Mberengwa	775																
Chibi	702																
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Chilimazi & others	878																
total	2,590																
8. DATE OF SA/W	1982/10	4. CONDITIONS AND DEVELOPMENT IMPACTS															
9. CONSULTANT(S)	Sanyu Consultants Inc.	A project to supply sanitary clean water to small groups of people scattered in the grassy savannah. The report emphasized the following: (1) 10 years later, when the project is completed, the cattle will come up in number to 85 of people. Since no further increase in water from wells is expected, control of the number will be required. (2) With the increase in wells and population, it is necessary to establish rules to use water from wells.															
10. STUDY TEAM	No. of Members 7 Period Dec. 1982-Aug. 1983 (9 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">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;">37.20</td> <td style="text-align: center;">13.40</td> <td style="text-align: center;">23.80</td> </tr> </table>	Total M/M	Japan	Field	37.20	13.40	23.80										
Total M/M	Japan	Field															
37.20	13.40	23.80															
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Survey for Water Holding Layers by Electric Exploration																
12. EXPENDITURE		5. TECHNICAL TRANSFER			3. PRINCIPAL SOURCE OF INFORMATION												
	Total 118,296 (¥000)	Supply of equipment and instruction : Supply of 2 units of boring rigs and technical instruction at site to the local engineers.			①												
	Contracted 98,508																

和名 村落給水計画

(M/P, Basic Study, Other)

PROJECT SUMMARY (F/S)

Compiled Mar. 1986
Revised Mar. 1996

AFR ZWE/S 301/83

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																								
1. COUNTRY Zimbabwe		1. SITE OR AREA Harare District and Harare				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 Installation Project of INTELSAT Standard A Earth Station		2. PROJECT COST (US\$1,000)																												
3. SECTOR Communications & B/Telecommunication		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">1)</td> <td style="text-align: center;">Total Cost</td> <td style="text-align: center;">Local Cost</td> <td style="text-align: center;">Foreign Cost</td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td style="text-align: center;">15,586</td> <td style="text-align: center;">2,323</td> <td style="text-align: center;">13,263</td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td style="text-align: center;">16,957</td> <td style="text-align: center;">1,109</td> <td style="text-align: center;">15,848</td> </tr> <tr> <td colspan="5">Z\$1=US\$1.32=250yen</td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td style="text-align: center;">6,811</td> <td></td> <td style="text-align: center;">6,811</td> </tr> </table>					1)	Total Cost	Local Cost	Foreign Cost		2)	15,586	2,323	13,263		3)	16,957	1,109	15,848	Z\$1=US\$1.32=250yen						3)	6,811		6,811
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4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)				(Description) Jul. 1993 D/D completed Apr. 1984 OECF L/A signed (2,536 million yen) Implemented : AOR Earth Station at Harare Mar. - Apr. 1985 A Japanese O/M expert sent to Zimbabwe Sep. 1986 - ep. 1987 A JICA expert sent to Zimbabwe Oct. 1989 OECF L/A signed (6,021 million yen) Part of the loan is for the Toll Exchange at Harare. Aug. 1993 OECF L/A signed (9,523 million yen) Telecommunication Development in Matsiela Land.																								
5. TYPE OF STUDY F/S		1. INTELSAT Standard A Earth Station 1) Phase 1 Project: Cost 1) above a. Atlantic Ocean Region (AOR) Network: Configuration of high power amplifier, low noise amplifier and ground communication equipment subsystems; antenna subsystem (9 antennas, dia. 30 - 32m); power supply subsystem; MX subsystem b. Installation at Harare Center Exchange Building: terrestrial microwave system; MX equipment; TV control & monitor equipment c. Related buildings and facilities 2) Phase 2 Project: Cost 2) above a. Indian Ocean Region (IOR) Network: Basically the same set of subsystems as AOR Station, but 6 antennas b. Expansion of related buildings and facilities 2. Toll Exchange Facility: Cost 3) above 1) Harare: Trunk & Junction Tandem Exchange (6,300 trunks and 20 operators' positions) 2) Bulawayo: Trunk Exchange (2,100 trunks and 2 operators' positions)																												
6. COUNTERPART AGENCY Ministry of Information, Post and Telecommunication		7. OBJECTIVES OF STUDY To provide the construction plan of the ground station of Satellite communications.				Contents of OECF Loan 1) (Phase 2) Contents 1. The construction of INTELSAT standard A earth station for the satellite on the Atlantic Ocean whose capacity is 300 channels and television circuits. 2. Employment of consultants for the purpose of the assistance and recommendation on the data evaluation of the examinations at the factory and sites. 2) Loan Target The foreign currency for above project. (FY1993 Overseas Survey) (1) INTELSAT Standard A Earth Station for AOR, Harare Central Exchange Station and other phase-1 projects have been completely implemented and operated. (2) 80% of Harare Trunk & Junction Tandem Exchange which is proposed phase 2 projects, has been implemented. (3) Post & Telecommunication Corporation is selecting a consultants for Bulawayo Trunk & Junction Tandem Exchange which is founded by OECF. OECF loan for other proposed projects relate to Bulawayo Trunk scheduled to be sign within 1994. (4) INTELSAT Standard A Earth Station for IOR and related phase-1 projects has been agreed to finance by Japan Export Import Bank. (FY1994 Domestic Survey) (FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) Jul. 1993 - Oct. 1994 The construction of Phase II is undertaken (financed by the Japan Export-Import Bank, 1,122 million yen)																								
8. DATE OF S/W 1982/10		Imp. Period: 1983.7-1984.12 1987.7-1988.12																												
9. CONSULTANT(S) Kokusai Denshin Denwa Co., Ltd.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2">4. FEASIBILITY AND ITS ASSUMPTIONS</td> <td rowspan="2">Feasibility:</td> <td>FIRR1)</td> <td>FIRR1)</td> <td>21.62</td> </tr> <tr> <td>FIRR2)</td> <td>FIRR2)</td> <td>20.60</td> </tr> <tr> <td></td> <td></td> <td>FIRR3)</td> <td>FIRR3)</td> <td>22.53</td> </tr> </table>				4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	FIRR1)	FIRR1)	21.62	FIRR2)	FIRR2)	20.60			FIRR3)	FIRR3)	22.53												
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10. STUDY TEAM No. of Members 8 Period Nov. 1982-Mar. 1983 (4 months)		Conditions and Development Impacts: [Conditions] 1) Start of operation: early 1985 for AOR Network; early 1989 for IOR Network; early 1986 for Toll Exchange 2) Project life of 15 years 3) International telephone traffic forecast (busy hour calls): <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">AGR</td> <td style="text-align: center;">IOR</td> <td style="text-align: center;">Total</td> </tr> <tr> <td>1986/87</td> <td style="text-align: center;">102,54EFL</td> <td style="text-align: center;">20.06</td> <td style="text-align: center;">122.60 (1.4 million minutes/year)</td> </tr> <tr> <td>2000/01</td> <td style="text-align: center;">313,54EFL</td> <td style="text-align: center;">61.18</td> <td style="text-align: center;">374.72 (4.2 million minutes/year)</td> </tr> </table> 4) FIRR 1) above is for AOR Network only, FIRR 2) for AOR and IOR Networks, and FIRR 3) for the entire project including the Toll Exchange. [Development Impacts] 1) Elimination of economic, political and social disadvantages of the dependency on the foreign telecommunication networks 2) Reduction of waiting time and telephone charges, convenience of direct dialling, increase of telecommunication, etc.					AGR	IOR	Total	1986/87	102,54EFL	20.06	122.60 (1.4 million minutes/year)	2000/01	313,54EFL	61.18	374.72 (4.2 million minutes/year)													
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11. ASSOCIATED AND/OR SUBCONTRACTED STUDY None		5. TECHNICAL TRANSFER 1) Acceptance of trainees (JICA training program) 2) O/T																												
12. EXPENDITURE Total 53,571 (¥000) Contracted 41,037		3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ③, ④																												
2. MAJOR REASONS FOR PRESENT STATUS 1) Effectiveness; 2) Good financial standing; 3) Continuity - the project was suspended for long; 4) High priority; and 5) Strong counterpart agency.																														

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1996

AFR ZWE/A 301/87

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2. NAME OF STUDY Medium Size Dams in Masvingo Province		2. PROJECT COST (US\$1,000)																																																																												
3. SECTOR Agriculture/Agriculture Int/General		3. CONTENTS OF MAJOR PROJECT(S)		(Description) The project is to be implemented by the Japanese Grant Aid. 1989.05 Basic Design completed 1989.10 E/M (1251 million yen) 1990 Phase I: Supply of Machines and Equipment completed 1991 Phase II: Dam 1 and 2: construction completed (998 million yen) 1992 Phase III: Dam 3: construction completed (536 million yen) 1993 Phase IV: Dam 4 and 5: under construction (985 million yen) 1994 Phase V: Dam 6: scheduled to start (665 million yen)																																																																										
4. REFERENCE NO.		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td></td> <td>Phase II</td> <td>Phase III</td> <td>Phase IV</td> <td>Phase V</td> </tr> <tr> <td></td> <td>Dam 1</td> <td>Dam 2</td> <td>Dam 3</td> <td>Dam 4</td> </tr> <tr> <td>1. Dam/Reservoir</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Storage capacity (MCM)</td> <td>6.65</td> <td>5.67</td> <td>1.83</td> <td>2.25</td> </tr> <tr> <td>height (m)</td> <td>12.7</td> <td>16.8</td> <td>18.7</td> <td>18.4</td> </tr> <tr> <td>length (m)</td> <td>1.70</td> <td>460</td> <td>920</td> <td>580</td> </tr> <tr> <td>2. Pumping Station</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>volume (l/s) expansion (m)</td> <td>54</td> <td>76</td> <td>49</td> <td>74</td> </tr> <tr> <td></td> <td>5,600</td> <td>7,940</td> <td>4,720</td> <td>870</td> </tr> <tr> <td>3. Farm pond</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>volume (m³)</td> <td>4,600</td> <td>6,500</td> <td>4,300</td> <td>1,400</td> </tr> <tr> <td>4. Irrigation</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>44</td> <td>70</td> <td>51</td> <td>50</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>21</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>100</td> </tr> </table>					Phase II	Phase III	Phase IV	Phase V		Dam 1	Dam 2	Dam 3	Dam 4	1. Dam/Reservoir					Storage capacity (MCM)	6.65	5.67	1.83	2.25	height (m)	12.7	16.8	18.7	18.4	length (m)	1.70	460	920	580	2. Pumping Station					volume (l/s) expansion (m)	54	76	49	74		5,600	7,940	4,720	870	3. Farm pond					volume (m ³)	4,600	6,500	4,300	1,400	4. Irrigation						44	70	51	50					21			
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5. TYPE OF STUDY F/S		4. FEASIBILITY AND ITS ASSUMPTIONS		[FY1993 Overseas Survey] No additional information. [FY1994 Domestic Survey] The construction of Phase V is planned to be completed in Feb. 1995. [FY1995 Domestic Survey] Mar., 1995 the construction works of Phase V was completed. [FY1995 Overseas Survey] As the completion of Phase V, this project is completed. The attainment of self-sufficiency and the improvement of the living standard in the communal lands are expected.																																																																										
6. COUNTERPART AGENCY Ministry of Energy, Water Resources and Development		Feasibility: EIRR1) 5.80 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)																																																																												
7. OBJECTIVES OF STUDY Implementation of an Irrigation project		Conditions and Development Impacts: The study aims to make the water resources development plan in the communal land in Masvingo Province to supply water for irrigation, domestic and animal use. [Development Impacts] Application of irrigation water will increase the unit yield to 5 times and will ensure double cropping. Accordingly, the production will increase to 10 times.		2. MAJOR REASONS FOR PRESENT STATUS The medium-size dams projects is one of the most important projects of the Zimbabwean Government. The project aims to alleviate the poverty of the farmers in communal land. It is worth to be implemented by Japanese Grant Aid.																																																																										
8. DATE OF SAW 1986/2		Imp. Period: 1986.7-1987.3																																																																												
9. CONSULTANT(S) Sanyu Consultants Inc. Nippon Giken Inc.		5. TECHNICAL TRANSFER 1) Trainee in Japan (1) 2) 037		3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ③																																																																										
10. STUDY TEAM No. of Members 11 Period Jul. 1986-Mar. 1987 (9 months) <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> <tr> <td>99.20</td> <td>41.70</td> <td>57.50</td> </tr> </table>		Total M/M	Japan			Field	99.20	41.70	57.50																																																																					
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11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Geographical Survey, Soil Test, Topographic Survey and Mapping																																																																														
12. EXPENDITURE Total 360,096 (¥000) Contracted 345,035																																																																														

和名 マシンの州中規模かんがい計画

PROJECT SUMMARY (F/S)

Compiled Mar.1992
Revised Mar.1996

AFR ZWE/A 302/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																			
1. COUNTRY Zimbabwe		1. SITE OR AREA Nyakomba Ward, Saunyama Communal land, Nyanga District, Manicaland Province				I. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																			
2. NAME OF STUDY Nyakomba Irrigation Development Project		2. PROJECT COST (US\$1,000)																							
3. SECTOR Agriculture/(Agriculture) in)General		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Total Cost</td> <td style="width: 15%;">Local Cost</td> <td style="width: 15%;">Foreign Cost</td> <td style="width: 40%;"></td> </tr> <tr> <td>1)</td> <td>15,776</td> <td>10,076</td> <td>5,690</td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					Total Cost	Local Cost	Foreign Cost		1)	15,776	10,076	5,690		2)					3)				
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4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)				<p>(Description)</p> <p>The request letter from Zimbabwean side on this project has arrived at the Ministry of Foreign Affairs in Japan through the Embassy of Japan in Zimbabwe.</p> <p>(FY1993 Overseas Survey)</p> <p>(1) The grant aid for the project was officially requested to Ministry of Foreign Affairs through Japanese Embassy in Harare.</p> <p>(2) This project will be one of the candidates for a Japanese grant aid project after having a medium scale irrigation grant aid project.</p> <p>(FY1994 Domestic Survey)</p> <p>The B/D Study has been carried out Since Sep.1994.</p> <p>(FY1995 Domestic Survey)</p> <p>E/N and the consultant agreement have been signed until Aug., 1995. Now it is underway of detailed designing works.</p>																			
5. TYPE OF STUDY F/S		<ul style="list-style-type: none"> 1) Pump station 5 nos. 2) Main supply pipe line 14,320 m 3) Farm pond 5 nos 4) Open canal (concrete) 38,380 m 5) Farm road (gravel pave.) 31,180 m 6) Drainage canal 33,700 m 7) Project management office 1 U.S. 8) Marketing facilities 1 U.S. 																							
6. COUNTERPART AGENCY Republic of Zimbabwe, Ministry of Lands, Agriculture and Rural Resettlement (MIARR)																									
7. OBJECTIVES OF STUDY To formulate the development plan and to prepare the feasibility study report																									
8. DATE OF S/W 1989/3		Imp. Period: 1992. -1995.																							
9. CONSULTANT(S) Taiyo Consultants Co., Ltd. Sanyu Consultants Inc.		4. FEASIBILITY AND ITS ASSUMPTIONS		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">EIRR1)</td> <td style="width: 15%;">5.50</td> <td style="width: 15%;">FIRR1)</td> <td style="width: 15%;">4.25</td> </tr> <tr> <td></td> <td>Yes/No</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> <td></td> </tr> </table>			Feasibility:	EIRR1)	5.50	FIRR1)	4.25		Yes/No	EIRR2)		FIRR2)				EIRR3)		FIRR3)			
	Feasibility:	EIRR1)	5.50	FIRR1)	4.25																				
	Yes/No	EIRR2)		FIRR2)																					
		EIRR3)		FIRR3)																					
10. STUDY TEAM No. of Members 8 Period Aug.1989-Aug.1990 (13 months)		<p>Conditions and Development Impacts:</p> <p>[Conditions]</p> <ul style="list-style-type: none"> - Project life : 50 years - Opportunity cost of capital : 2.5% (National standard of food security scheme in Zimbabwe) US\$ 1.0 = 25 Z.304 <p>[Development Impacts]</p> <ul style="list-style-type: none"> - To make the non-white civil administration system stable through the improvement of communal land and changing the small communal agricultural system to a commercial one. (White people still hold the control of the economic system and land ownership even after independence.) - To establish model and pilot projects for future irrigation development projects on other communal land. 				2. MAJOR REASONS FOR PRESENT STATUS																			
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> </tr> <tr> <td>Total M/M</td> <td>14.67</td> <td>23.95</td> </tr> <tr> <td>36.62</td> <td></td> <td></td> </tr> </table>							Japan	Field	Total M/M	14.67	23.95	36.62													
	Japan	Field																							
Total M/M	14.67	23.95																							
36.62																									
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Topographic survey Soil Analysis		5. TECHNICAL TRANSFER				3. PRINCIPAL SOURCE OF INFORMATION ①, ②																			
12. EXPENDITURE		Counterpart training 2 persons (Jun. and Jul. 1990)																							
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">174,974 (¥'000)</td> </tr> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>138,591</td> </tr> </table>			174,974 (¥'000)	Total		Contracted	138,591																		
	174,974 (¥'000)																								
Total																									
Contracted	138,591																								

和名 ニヤコムバ地方灌漑計画

PROJECT SUMMARY (F/S)

Compiled Mar. 1994
Revised Mar. 1996

AFR ZWE/S 302/92

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS						III. PRESENT STATUS OF STUDIED PROJECT																																																																																							
1. COUNTRY		1. SITE OR AREA						1. PRESENT STATUS																																																																																							
Zimbabwe		6 Rural exchange areas: BEATRICE/BTR (MASHONALAND), NKAYI/NKI (MHOALAND), KEZI/KEZ (MATABELELAND), GUTU/GTU (MASVINGO), MUFAMBINDA/HRB (MANKALAND), CHATSWORTH/CHS (MASVINGO)																																																																																													
2. NAME OF STUDY		2. PROJECT COST						<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																																																																																							
Rural Telecommunications Network Project		Total Cost 31,449 Local Cost 4,730 Foreign Cost 26,719 (US\$1,000) 1) 2) 3)																																																																																													
3. SECTOR		3. CONTENTS OF MAJOR PROJECTS						(Description) (F)1993 Overseas Survey (1)The govt of Zimbabwe requested a grant aid for the project to Japan. (2)Ministry of Foreign Affairs is coordinating with other grant aid project in Zimbabwe. (F)1994 Domestic Survey (F)1995 Domestic Survey) No additional information. (F)1995 Overseas Survey) GTU/CHS - The request for the OECF loan has been made. HRB/BTR - It is scheduled to be implemented with the own fund of PTC. NKI - The request for funding is made to the German Bank (KfW). KER - It is being implemented with the assistance of KfW. It is scheduled to be completed in FY1996/97.																																																																																							
Communications & B/I/Comms. & Broad. In/General		Project cost summary to implement the PJ 25 as follows: (Unit thousand US\$) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Total</th> <th>BTR</th> <th>KER</th> <th>NER</th> <th>NKI</th> <th>GTU</th> <th>CHS</th> </tr> </thead> <tbody> <tr> <td>Switch Sys.</td> <td>1965</td> <td>402</td> <td>291</td> <td>321</td> <td>342</td> <td>447</td> <td>162</td> </tr> <tr> <td>Transmission Sys.</td> <td>5467</td> <td>419</td> <td>1119</td> <td>1486</td> <td>643</td> <td>727</td> <td>655</td> </tr> <tr> <td>External Plant</td> <td>5117</td> <td>1258</td> <td>610</td> <td>790</td> <td>678</td> <td>1075</td> <td>706</td> </tr> <tr> <td>Power Plant</td> <td>1972</td> <td>320</td> <td>423</td> <td>453</td> <td>311</td> <td>245</td> <td>211</td> </tr> <tr> <td>Ant. Mast</td> <td>1563</td> <td>251</td> <td>251</td> <td>385</td> <td>308</td> <td>97</td> <td>110</td> </tr> <tr> <td>Eq. Shelter</td> <td>1194</td> <td>272</td> <td>272</td> <td>237</td> <td>139</td> <td>240</td> <td>130</td> </tr> <tr> <td>Test Eq. & Spares</td> <td>798</td> <td>81</td> <td>81</td> <td>81</td> <td>81</td> <td>81</td> <td>312</td> </tr> <tr> <td>Maintenance</td> <td></td> <td>209</td> <td>38</td> <td>38</td> <td>38</td> <td>38</td> <td>19</td> </tr> <tr> <td>Transport/Inst. cost</td> <td>10550</td> <td>1987</td> <td>1968</td> <td>2271</td> <td>1572</td> <td>1564</td> <td>1131</td> </tr> <tr> <td>Engineering Service</td> <td>2624</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>									Total	BTR	KER	NER	NKI	GTU	CHS	Switch Sys.	1965	402	291	321	342	447	162	Transmission Sys.	5467	419	1119	1486	643	727	655	External Plant	5117	1258	610	790	678	1075	706	Power Plant	1972	320	423	453	311	245	211	Ant. Mast	1563	251	251	385	308	97	110	Eq. Shelter	1194	272	272	237	139	240	130	Test Eq. & Spares	798	81	81	81	81	81	312	Maintenance		209	38	38	38	38	19	Transport/Inst. cost	10550	1987	1968	2271	1572	1564	1131	Engineering Service	2624				
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4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>62.00</th> <th>HRR1)</th> <th>19.51</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2)</td> <td>151.00</td> <td>HRR2)</td> <td>19.51</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>167.00</td> <td>HRR3)</td> <td>19.51</td> </tr> </tbody> </table>						Feasibility:	EIRR1)	62.00	HRR1)	19.51	Yes/No	EIRR2)	151.00	HRR2)	19.51		EIRR3)	167.00	HRR3)	19.51																																																																									
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	EIRR3)	167.00	HRR3)	19.51																																																																																											
5. TYPE OF STUDY		Conditions and Development Impacts: * If the PJ is undertaken with the help of a Grant Aid, implementation is likely to contribute to the enhancement of the Econ. Development & the improvement of the social welfare.																																																																																													
F/S																																																																																															
6. COUNTERPART AGENCY		-Willingness to pay Average value Minimum value Call charge \$ 1/call \$ 5/call Instl. Fee \$ 150/line \$ 2000/line Rental Fee \$ 20/Month \$ 150/Month - Economic Benefit Case 1) Premium of call charges/call : \$ 1/call Case 3) charges/call : \$ 5/call Instl. Fee/line : \$ 150 Instl. Fee/line : \$ 6,760.4 Rental Fee/Month : \$ 20 Rental Fee/Month : \$ 5,313.6																																																																																													
Posts and Telecommunications Corporation (PTC)																																																																																															
7. OBJECTIVES OF STUDY		To conduct a Feasibility study on rural telecommunications network for 6 rural exchange areas: Beatrice, Kezi, Marambinda, Nkayi, Gutu, Chatsworth																																																																																													
8. DATE OF SAV		10. STUDY TEAM No. of Members 6 Period May. 1992-Nov. 1992 (6 months) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>14.97</td> <td>7.10</td> <td>7.87</td> </tr> </tbody> </table>						Total M/M	Japan	Field	14.97	7.10	7.87																																																																																		
Total M/M	Japan							Field																																																																																							
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9. CONSULTANT(S)		Imp. Period: 1994. -1996.																																																																																													
Nippon Telecommunication Consulting Co., Ltd.																																																																																															
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		2. MAJOR REASONS FOR PRESENT STATUS The completion of the project is important to facilitate faster and easier implementation of the government development programs in the rural area where 70% of the population reside.																																																																																													
None																																																																																															
12. EXPENDITURE		5. TECHNICAL TRANSFER 1. OJT and Technology transfer were conducted for counterpart during the survey & the study 2. Trainees were accepted twice in Japan at the time of making 17/R sport & D/R.																																																																																													
Total 156,478 (V000) Contracted 138,754																																																																																															
3. PRINCIPAL SOURCE OF INFORMATION		①, ②, ③																																																																																													

和名 地方電気通信整備計画

[F/S,D/D]

PROJECT SUMMARY (F/S)

Compiled Mar. 1986
Revised Mar. 1996

CSA ARG/S 301/79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Argentina	1. SITE OR AREA		Horn Medanos, Province of Buenos Aires		1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Deep Water Port Construction Project at Punta Medanos	2. PROJECT COST (US\$1,000)		Total Cost	Local Cost		
3. SECTOR	Transportation/Port			1) 923,472			
4. REFERENCE NO.				2)			
5. TYPE OF STUDY	F/S			3)			
6. COUNTERPART AGENCY	Ministerio de Economía, Secretaría de Estado de Intereses Marítimos (SEIM)	3. CONTENTS OF MAJOR PROJECT(S)		Planning for a deep sea for grain export, iron ore and coal import. Breakwater: north 4100m, South 1900m. Breakwater: 2 total length 800m Piers: 10 for fishery, 2 x 400m for grain export Quays: 500m for containers, 500m for iron ores exclusive quay for steel mill and industry Fishery related: freezing and cold storage facilities, market, factories			
7. OBJECTIVES OF STUDY	Technical Study on the location of port and its planning			(FY 1991 Overseas Survey) CURAP (Deepsea Ports Construction Commission) was disbanded in 1987, and the construction of new ports has been frozen since then. Emphasis was shifted to the strengthening of the existing ports, and it was decided to deepen Bahía Blanca and Quequen Ports. In late 1991, the dredging was completed to the depths of 40 - 45 feet at Bahía Blanca, while Quequen is being dredged to the depth of 40 feet. The Government has been promoting the decentralization of administration, and the port facilities have been gradually transferred from the national government to provincial or local authorities. According to the new Port Law now under parliamentary deliberations, only five ports (Buenos Aires, Quequen, Bahía Blanca, Santa Fe and Ushuaia) will remain under AGP. The operation of the five ports will be eventually privatized in the future. The economic policy of the present Government has been emphasizing the privatization of public enterprises, deregulation and decentralization. Investments in port facilities along Paraná, Paraguay and La Plata Rivers will be undertaken increasingly by the private sector.			
8. DATE OF S/W	1979/5	Imp. Period:					
9. CONSULTANT(S)	Overseas Coastal Area Development Institute	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10. STUDY TEAM	No. of Members 4 Period: Apr. 1979-Jul. 1979 (3 months) Total M/M Japan Field 4.10 2.30 1.80	Conditions and Development Impacts:		- Coping with containerization - Fishery port is expected to contribute to the development of the coast and to alleviate the congestion of Port Mar del Plata.			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER		2. MAJOR REASONS FOR PRESENT STATUS			
12. EXPENDITURE	Total 14,324 (¥000) Contracted 6,587			3. PRINCIPAL SOURCE OF INFORMATION			
				①, ②			

和名 プンク・メダノス深水港建設計画

PROJECT SUMMARY (M/P)

Compiled Mar. 1990
Revised Mar. 1996

CSA ARG/S 101/86

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS					
1. COUNTRY	Argentina	1. SITE OR AREA	The entire country (2.78 million ha)			I. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued			
2. NAME OF STUDY	Study on Economic Development	2. PROJECT COST	(US\$1,000)	Total Cost	Local Cost	Foreign Cost	(Description) Based on the recommendations of the study, a number of Japanese experts in various fields of industry and fisheries have been sent to Argentina. The technical cooperation project on packaging technology, which began in March 1989 was based on one of the study's recommendations. Since President Carlos Menem took office in July 1989, the Report was highly appreciated by the Government of its consistency with a series of economic reforms undertaken by the Government. When Dr. D.F. Cavallo visited Japan in December 1992, a follow-up study/the second study) was officially requested, and a preliminary study mission was dispatched to Argentina in April 1994. Since July 1994, JICA study team was dispatched to Argentina and surrounding countries. The new dimension of the second study was to expand economic relations with East Asia, a region of sustained dynamic growth through the 1990s. (FY1991 Overseas Survey) In Sept. 1991, the Planning Secretariat, the counterpart agency of the JICA study, was reorganized into the Economic Planning Secretariat under the Ministry of Economy. The functions of the new Secretariat are compilation and analysis of the economic trends rather than the identification and promotion of new projects / programs. The improvement of administrative efficiency, privatization and other general policy measures, which were discussed in the JICA study, have been proceeding rapidly under the policy package adopted in accordance with the Currency Exchange Law of April 1991. The Government has been pushing various measures of the fiscal reform and administrative reorganization and rationalization in adherence to the IMF conditionality. Accordingly, specific recommendations of the study (such as institutional credit, infrastructural development and preferential taxation) are yet to make impacts on policy makers. The report of the study has been utilized extensively when and where various issues of long-term development are discussed. (FY1995 Domestic Survey) Please turn over. (FY1995 Domestic Survey) Taking into consideration that the political package since 1991 was very effective to stabilize the economy, 2nd phase of the study on Economic Development is requested for sake of the economic growth continuing such longer term. At present, the survey works are carried on two years by JICA since 1994. The counterpart is the Investment and Trading Secretariat, Ministry of Economy. And the major object of the project is the exportation to and the investment			
3. SECTOR	Development Plan/Integrated Regional Development Plan	3. CONTENTS OF MAJOR PROJECT(S)	1) _____ 2) _____							
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	Policy suggestions on above 5 sections are as follows: 1. Macroeconomy Analysis (1) Continuation and consolidation of Economic Policies, (2) Privatization of public enterprises, (3) Strengthening of support systems for researches and development, (4) Development of efficient infrastructure. 2. Agriculture (1) Further privatization of grain handling facilities, (2) Formulation of a coordinated policy for plant protection, (3) Cost reduction and development of farm machinery, (4) Formulation of a national strategy in biotechnology research, (5) Stability and profitability of cattle farming and the meatprocessing industry, (6) Renovation and modernization of the fishing capacity. 3. Industry (1) Introduction of competitive conditions to industrial products, (2) Formulation of government policies through exchanges of opinions with private sector/Suggestions are continued. You can see them on the screen of Computer), (3) Strengthening of support systems for technology development, (4) Establishment of a long term capital market, (5) Domestic production for micro-computers, (6) Set-up of a financing schemes for the software industry, (7) Support for the growth of the NC machine tool industry, (8) Formulation and implementation of policy measures to develop petrochemical industries, (9) Systematic upgrading of packaging technology, (10) Financing schemes for the promotion of small and medium industries. 4. Transportation (1) Formulation of policies to develop national transportation systems, (2) Efficient utilization for grain transportation of parana and La Plata rivers, (3) Promotion of containerization, (4) Development of cargoterminals							
5. TYPE OF STUDY	M/P									
6. COUNTERPART AGENCY	Planning Secretariat, Presidency of the Nation	7. OBJECTIVES OF STUDY	To suggest development policies and measures concerning five sectors of macroeconomic management, agriculture, industry, transportation and export.							
8. DATE OF SAV	1985/8	9. CONSULTANT(S)	International Development Center of Japan							
10. STUDY TEAM	No. of Members 31 Period Aug. 1985-Jan. 1987 (18 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">95.36</td> <td style="text-align: center;">45.36</td> <td style="text-align: center;">50.00</td> </tr> </table>	Total M/M	Japan	Field	95.36	45.36	50.00			
Total M/M	Japan	Field								
95.36	45.36	50.00								
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">262,407 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">316,373</td> </tr> </table>			Total	262,407 (¥'000)	Contracted	316,373	
Total	262,407 (¥'000)									
Contracted	316,373									
		5. TECHNICAL TRANSFER	Four counterparts participated in the JICA training program. The seminar is held in Buenos Aires.							
		3. PRINCIPAL SOURCE OF INFORMATION	①, ②							

状況 (要約表添付文書)

CSA ARG/S 101/86

(M/P)

Name of Study on Economic Development

Study

Country Argentina

Type of Study M/P

Sector Development Plan/Integrated Regional Development Plan

Present Status: In progress or In use

(Description)

Based on the recommendations of the study, a number of Japanese experts in various fields of industry and fisheries have been sent to Argentina. The technical cooperation project on packaging technology which began in March 1989 was based on one of the study's recommendations.

Since President Carlos Menem took office in July 1989, the Report was highly appreciated by the Government of its consistency with a series of economic reforms undertaken by the Government. When Dr.D.F. Cavallo visited Japan in December 1992, a follow-up study(the second study) was officially requested, and a preliminary study mission was dispatched to Argentina in April 1994. Since July 1994, JICA study team was dispatched to Argentina and surrounding countries. The new dimension of the second study was to expand economic relations with East Asia, a region of sustained dynamic growth through the 1990s.

(FY1991 Overseas Survey)

In Sept. 1991, the Planning Secretariat, the counterpart agency of the JICA study, was reorganized into the Economic Planning Secretariat under the Ministry of Economy. The functions of the new Secretariat are compilation and analysis of the economic trends rather than the identification and promotion of new projects / programs.

The improvement of administrative efficiency, privatization and other general policy measures, which were discussed in the JICA

study, have been proceeding rapidly under the policy package adopted in accordance with the Currency Exchange Law of April 1991.

The Government has been pushing various measures of the fiscal reform and administrative reorganization and rationalization in adherence to the IMF conditionality. Accordingly, specific recommendations of the study (such as institutional credit, infrastructural development and preferential taxation) are yet to make impacts on policy makers.

The report of the study has been utilized extensively when and where various issues of long-term development are discussed.

(FY1995 Domestic Survey)

Please turn over.

(FY1995 Domestic Survey)

Taking into consideration that the political package since 1991 was very effective to stabilize the economy, 2nd phase of the study on Economic Development is requested for sake of the economic growth continuing such longer term. At present, the survey works are carried on two years by JICA since 1994. The counterpart is the Investment and Trading Secretariat, Ministry of Economy. And the major object of the project is the exportation to and the investment from Eastern Asia.

(FY1995 Overseas Survey)

The fundamental targets of this project are to privatize the enterprises, to cut the state subsidy for the public enterprises and to improve the profit distribution system, in order to activate the national economy and to promote the exporting business, and try to create the economic atmosphere which is competitable in the world market by means of cost saving for production and improvement.

Based on the experiences obtained, final recommendations of the project report and the recent trends of economical growth, forecasting the situations at March, 1996, a part of the contents of the OKITA-I project has been changed, aiming at the maximum effects for the Government and the enterprises concerns.

PROJECT SUMMARY (F/S)

Compiled Mar. 1990
Revised Mar. 1996

CSA ARG/S 302/86

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Argentina	1. SITE OR AREA	A site 10km away from Plaza Constitución along the General Roca Line			1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY	Preliminary Design for the Amplification of an Inspection and Repairing Workshop for Electric Rolling Stock	2. PROJECT COST (US\$1,000)	Total Cost	Local Cost	Foreign Cost		
3. SECTOR	Transportation/Railway		1) 19,282	17,016	2,266	(Description) The electrification of the General Roca Line was commenced in 1981 and completed in 1985. The system (25kv, 50Hz) was new in Argentine Railways (FA), and there was no facility for inspection and repair of the introduced railcars. FA thus planned to establish a new inspection and repair facility by Japanese technical assistance. Owing to the worsening of the economic situation, the electrification program was scaled down and the construction of the new facility was de facto cancelled. The rehabilitation and improvement of the existing facilities was subsequently proposed as an alternative. (FY1991 Overseas Survey) In order to simplify the process of privatization, FA was divided in April 1991, and PINESA was created for metropolitan railways. Subsequently, preparations have been going on for the privatization of each railway line. To date, tenders have been called for the Mitre, Urquiza and Sarmiento Lines. Preparation of the tender documents has not been completed for the Roca and San Martín Lines. Therefore, it is yet hard to know what will happen to the inspection and repair functions after privatization. However, Escalada Plant still remains the center of inspection and repair and appears likely to remain as such in the future. (FY1994 Domestic Survey) No additional information.	
4. REFERENCE NO.		2. PROJECT COST (US\$1=251Yen)	2) 1)				
5. TYPE OF STUDY	F/S	3. CONTENTS OF MAJOR PROJECT(S)	3) 2)				
6. COUNTERPART AGENCY	Argentine Railway (F.S.)						
7. OBJECTIVES OF STUDY	F/S for reinforcing a workshop for the inspection and repair of electric railcars for AC-electrified sections on the General Roca Line, and a preliminary design of an optimum plan.						
8. DATE OF S/W	1984/7						
9. CONSULTANT(S)	Japan Railway Technical Service	Imp. Period:	1985.2-1986.9				
10. STUDY TEAM	No. of Members 10 Period Feb. 1985-Sep. 1986 (19 months) Total M/M Japan Field 63.93 39.63 24.30	4. FEASIBILITY AND ITS ASSUMPTIONS	Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts: Development impacts: Reinforcement of inspection and repair facilities for electric railcars will ensure punctual and safe train operation.					
12. EXPENDITURE	Total 191,378 (¥000) Contracted 184,115	5. TECHNICAL TRANSFER	Technical transfers occurred through working together with counterparts on site investigations, reports, etc.				
		3. PRINCIPAL SOURCE OF INFORMATION	①, ②				
		2. MAJOR REASONS FOR PRESENT STATUS	Owing mainly to economic factors, there has been no progress in electrification.				

国名 国鉄車輛検修工場建設計画

(F/S, D/D)

PROJECT SUMMARY (M/P)

Compiled Mar. 1990
Revised Mar. 1996

CSA ARG/S 102/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDY RESULTS	
1. COUNTRY	Argentina	1. SITE OR AREA	Province of Mendoza (about 150,000 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	Development Plan for the Telecommunication and Broadcasting Networks in the Province of Mendoza	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) The Provincial Government of the of Mendoza uses the study results as guidelines for the private sector. (FY1991 Overseas Survey) Telecommunication is still operated by CAT, but the negotiations have been going on between CAT and Telefonica. Before long, telecommunication will be transferred to Telefonica. On the basis of the proposed master plan, the Provincial Government is planning to undertake a feasibility study of the telephone network development. (FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) The result of similar survey works carried out by the third country is also the same as the result of JICA's survey at the main points. The plans and the recommendations of this survey works will be adopted as the political targets for long time at this province and also as the model of the development plan in future.	
3. SECTOR	Communications & B/Conns. & Broad. in General	(US\$1,000)	1) 291,540	29,153	262,387		
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	1) 28,279				
5. TYPE OF STUDY	M/P	1. Long-term development and improvement plan for the telecommunications networks up to the year 2005. 1) Phase 1(1991-1995)(Total project cost US\$80,082 thousand) (1)Subscriber telephone installation(STI)54,800 (2)Public telephone installation (PTI) 1,500 (3)Rural telephone installation(RTI) 800 (4)Local exchange installation(LEI) 79,144 (terminalst.-) (5)Toll exchange installation (TEI) 2,200. 2) Phase 2 (1996-2000) (Total project cost US\$81,602 thousand) (1)STI 75,200 (2)PTI 1,400 (3)RTI 400 (4)LEI 92,070. (5)TEI 1,800. 3) Phase 3 (2001-2005) (Total project cost US\$129,856 thousand) (1)STI 106,100 (2)PTI 1,500 (3)RTI 800 (4)LEI 161,081. (5)TEI 3,000.					
6. COUNTERPART AGENCY	Direccion de Comunicaciones, Ministerio de Obras y Servicios Publicos, Provincia de Mendoza	2. Long-term development and improvement for the broadcasting networks up to the year 2005: 1)HF transmitter installation and renewal 13 sets; 2)FM transmitter installation 76 sets; 3)TV transmitter installation 67 sets; 4)Satellite relay construction 3 links; 5)Terrestrial line addition for TV use 1 line					
7. OBJECTIVES OF STUDY	Proposing a long-term development and improvement plan for the telecommunications networks and an outline for a long-term development and improvement plan for the broadcasting networks up to the year of 2005.	4. CONDITIONS AND DEVELOPMENT IMPACTS 1. Long-term development and improvement plan for the telecommunications networks up to the year 2005. Conditions: 1)Facilities useful life 20 years; 2)Cooperation tax 3% Financial internal rate of return 12%(including rural telephones) Improvement Impacts: 1)Telephone demand in the province will mostly be satisfied, and telephone services will also become available for the areas where the service is not provided at present; 2)Telephone density will increase from 6.3 to 18.5 main lines per 100 inhabitants in the year 2005. The density of public telephones will also increase from 0.7 to 2.5 units per 1,000 inhabitants in the same year; 3)As the result of the digitalization of exchanges, diversified new telephone services can be provided economically. 2. Long-term development and improvement for the broadcasting networks up to the year 2005. Improvement Impacts: 1)Enrichment of educational broadcast programs can reduce the number of teachers and educational facilities; 2)Rural inhabitants can make closer contact with the central government and participate easily in national policy; 3)Improvement of educational and recreational broadcast programs will enrich the spiritual life of the rural inhabitants.					
8. DATE OF SAW	1986/2						
9. CONSULTANT(S)	Japan Telecom. Eng. and Consulting Service						
10. STUDY TEAM	No. of Members 10 Period Jul. 1986-Mar. 1987 (15 months) Jun. 1987-Nov. 1987 Total M/M Japan Field 76.23 41.70 34.53						
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None						
12. EXPENDITURE	Total 228,872 (¥000) Contracted 207,116	5. TECHNICAL TRANSFER 1) Joint implementation of every field survey 2) Training of four counterparts in Japan (Drawing up reports, Telecommunications two persons, Broadcasting one person)					
						2. MAJOR REASONS FOR PRESENT STATUS	Financing
						3. PRINCIPAL SOURCE OF INFORMATION ①, ②	

和名 メンデル州電気通信・放送網整備技術計画

[M/P, Basic Study, Other]

PROJECT SUMMARY (M/P)

Compiled Mar.1990
Revised Mar.1996

CSA ARG/A 101/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1. COUNTRY	Argentina	1. SITE OR AREA	Loret and San Carlos Area located in North Part of Province of Corrientes (Population: 660,000, Area 290,000 ha)		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 desarrollo agrícola integrado en el área adyacente a la represa de Yacuyeta e la provincia de Corrientes	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) Based on the findings of the study, feasibility studies are being undertaken on parts of the study area, while some construction works are underway. Specifically, nine small-scale dams for paddy irrigation (capacities ranging from 400 to 2,000 ha) are under study by funds of agricultural operators with the technical advice from the government. Concerning the irrigable area of 40,500 ha along the Paraná River basin, the provincial government and the group of producers jointly undertook the construction of the 12km drainage canals, which enabled the agricultural production.
3. SECTOR	Agriculture/Agriculture In/General	(US\$1,000)	1) 203,981	86,654	117,327	
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	Drainage Canal:258km, Irrigation Canal:256km, Road:330km, Agricultural Land Reclamation:119,800 hs, Agricultural Facility:6 sets, Agricultural Technics center:1 set, Pump Facility which supplies water by its pressure:6sets 1. Irrigation project (37,000ha in the lower part of Yacuyeta dam and 4,000ha in San Carlos area) 2. Drainage project 150km long of primary channel and 238km of main channel) 3. Farm road project (100km long of main road and 32km of branch road) 4. Agricultural land development project (100km long of main road and 32km of branch road) 4. Agricultural land development project (model projects for paddy field, dry field, horticulture under/without structure: 134,000ha of whole area) 5. Cultivation plan (promotion of rice production mainly and introduction of promising cereals, vegetables and fruits) 6. Farming programme 7. Livestock and grassland improvement 8. Afforestation programme 9. Agriculture supporting service 10. Establishment of agricultural training center 11. Food processing and storage facilities 12. Other social infrastructure improvement plan (electrification, telecommunication, water supply, education, medical service etc.)			[FY1991 Overseas Survey] On the basis of M/P, the state government is planning to implement two projects. 1) Drainage project: 12km drainage canal is under construction. 2) Vegetable cultivation mini-project: JICA is implementing technical cooperation at the vegetable cultivation center. [FY1994 Domestic Survey] No additional information. [FY1995 Domestic Survey] By the modification of the design and the completion of the Yacuyeta Dam construction, it becomes necessary to reinvestigate the Yacuyeta Dam. [FY1995 Overseas Survey] The performances of this survey works such as maps and data are utilized widely for the other projects for the development of the Province of Corrientes. To continue this kind of survey work is very important to prove the activation of industrial economy and to make it easier to draw up various secondary plans.
5. TYPE OF STUDY	M/P	6. COUNTY PART AGENCY				
7. OBJECTIVES OF STUDY	To elaborate a master plan for the execution of integrated agricultural development aiming to the establishment of high-productivity agriculture in the area of approximately 290,000ha in the north part of Corrientes province utilizing available land resources and 108m ³ /s of irrigation water from the Yacuyeta dam basin land before.	8. DATE OF S/W	1986/9			
9. CONSULTANT(S)	Japan Agricultural Land Development Agency	4. CONDITIONS AND DEVELOPMENT IMPACTS	Various effects are expected as follows: 1. Agricultural production cost will be reduced as a result of converting pump irrigation into gravity irrigation. 2. Available use of machineries and appropriate farming operation scale will improve conditions of farming operation and cropping techniques. 3. Distribution conditions such as roads and stock facilities will be improved. This study is considered to contribute to strengthening of international competitiveness, and balanced regional development including correction of difference of income through production increase of main crops (rice 260,000 ton, vegetables 30,000 ton, grains 100,000 ton, Citrus fruits 50,000 ton). It is required to modify current import-export imbalance and to reduce international debt in Argentine Republic by means of promoting export of agricultural products. In this sense, to increase agricultural production of rice, vegetables and fruits as well as to reduce production cost in the corresponding area are quite important and expected for the improvement of international compatibility and socio-economic conditions. This study also supports and benefits many small size farmers for the improvement of living.			
10. STUDY TEAM	No. of Members 21 Period Feb.1987-Dec.1988(23 months) Total M/M Japan Field 177.00 75.00 102.00	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Data analysis of LANDSAT Imagery			
12. EXPENDITURE	Total 479,165 (¥000) Contracted 390,505	5. TECHNICAL TRANSFER	Co-operative work to make a report			
		2. MAJOR REASONS FOR PRESENT STATUS				
		3. PRINCIPAL SOURCE OF INFORMATION	①, ②			

和名 ヤシレタム隣接地域農業統合開発計画

[M/P, Basic Study, Other]

PROJECT SUMMARY (Basic Study)

Compiled Sep.1995
Revised Mar.1996

CSA ARG/S 501/94

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS																					
1.COUNTRY	Argentina	1.SITE OR AREA	North-east region in Argentine; the area spread on Misiones State and Corrientes State with an area of 52,000sq.km.																						
2.NAME OF STUDY	Topographic mapping of North-east region in Argentine Republic	2.PROJECT COST				Total Cost Local Cost Foreign Cost																			
3.SECTOR	Social Infrastructure/Survey & Mapping	(US\$1,000)	1)	1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued (Description) Topographic maps with a scale of 1:100,000 and digital mapping data become available to use them for development planning and survey works of north-eastern border area of Argentine. Aerial photographs have been taken on the area of 100,000sq.km in Misiones State and Corrientes State. These photos will be able to use for various investigation, survey and planning works at this region. (FY1995 Overseas Survey) The topographic maps drawn by this project are very useful to grasp the circumstances of this region. The maps are utilized widely for the various places such as the Geographical Research Center of the Army.																					
4.REFERENCE NO.		2)																							
5.TYPE OF STUDY	Basic Study	3.CONTENTS OF MAJOR PROJECT(S)																							
6.COUNTERPART AGENCY	Instituto Geografico Militar (IGM)	1) Shooting aerial photograph with a scale of 1:60,000. 2) Topographic mapping with a scale of 1:100,000. 3) To arrange digital mapping data.																							
7.OBJECTIVES OF STUDY	Topographic mapping of North-east region of the country with a scale of 1:100,000, and to arrange digital mapping data.	4.CONDITIONS AND DEVELOPMENT IMPACTS																							
8.DATE OF S/W	1991/11	In Misiones State, there are still much of virgin forest and their forest industry is prosperous. In Corrientes State, there are wide spread swampy area and wide area is still not utilized except some of pasturage. And along the Palana River faced on the border line with Uruguay, a big "Yashreta Dam" has been constructed and the development of electric power resources is progressing. The topographic maps and the digital mapping data produced by this project will be expected as very useful data for the various survey and planning works including bilateral cooperation projects at this area.																							
9.CONSULTANT(S)	International Engineering Consultants Association Kokusai Kougyo Co., Ltd.	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">10.STUDY TEAM</td> <td colspan="3"></td> </tr> <tr> <td>No. of Members</td> <td style="text-align: center;">19</td> <td colspan="2"></td> </tr> <tr> <td>Period</td> <td colspan="3"></td> </tr> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> <td colspan="2"></td> </tr> <tr> <td style="text-align: center;">150.38</td> <td style="text-align: center;">13.30</td> <td style="text-align: center;">137.08</td> <td colspan="2"></td> </tr> </table>		10.STUDY TEAM				No. of Members	19			Period				Total M/M	Japan	Field			150.38	13.30	137.08		
10.STUDY TEAM																									
No. of Members	19																								
Period																									
Total M/M	Japan	Field																							
150.38	13.30	137.08																							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Shooting aerial photograph	2.MAJOR REASONS FOR PRESENT STATUS																							
12.EXPENDITURE	Total 1,054,591 (¥000)	3.PRINCIPAL SOURCE OF INFORMATION																							
	Contracted	5.TECHNICAL TRANSFER A series of technology from basic survey works by means of GPS to topographic mapping by the digital mapping method have been transferred.																							
				①, ②																					

和名 北東部地形図作成調査

PROJECT SUMMARY (F/S)

Compiled Mar. 1986
Revised Mar. 1996

CSA BOL/S 301/77

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT															
1. COUNTRY	Bolivia	1. SITE OR AREA		Viru Viru in Santa Cruz, Bolivia		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	Viru Viru International Airport Development	2. PROJECT COST		Total Cost	Local Cost			Foreign Cost													
		(US\$1,000)	1)	151,666	52,078	99,588															
		(US\$1=260 Yen)	2)	167,914	58,242	167,914															
			3)																		
3. SECTOR	Transportation/Air Transportation & Airport	3. CONTENTS OF MAJOR PROJECT(S)				(Description) Feb. 1978 D/D completed May 1979 OECF loan agreement (10,800 million yen) Mar. 1983 OECF loan agreement (6,688 million yen) Jul. 1984 Operation started - There are about 11 to 12 daily flights leaving from and arriving at the airport, which is equivalent to El Alto Airport of the Capital. - The Passenger Terminal building has not been well maintained. Cleaning service is not well performed. - The cost of maintenance and personnel are covered by airport charges. - The problem at this airport is the need of changing the Freccia Approach Pass indication (FAP-I). However, the improvement has so far been postponed, because the improvement of La Paz Airport has the current priority. (FY1991 Overseas Survey) The original design of the airport has turned out to have some problems: the terminal for cargo as well as aprons are too narrow; the parking area is too large having an average occupancy rate of only 30% (owing to the fact that Lima Airport has still been the principal airport despite the expectation that Viru Viru would substitute it). *Contents of OECF Loan (1) Contents 1. Airfield facilities (Runway 3,500mx45m, taxiway, apron). 2. Passenger terminal building (18,000sqm) and other facilities. 3. Navaid facilities, lighting facilities and Power supply facilities. 4. Fuel supply facilities, urban facilities (water supply, drainage etc.). (FY1994 Domestic Survey) The government has a plan to modernize all air navigational facilities at its major four (4) airports, namely, ViruViru/Santa Cruz, La Paz, Cochabamba and Tarija. Under the plan, Milcof of USA will install Instrument Landing System (ILS) equipment for difficult site, and aeronautical telecommunications facilities will be upgraded by Spanish assistance.															
4. REFERENCE NO.		The Study reviewed the Master Plan of the new port proposed by the Bolivian Government, and forecast the air traffic demand in the years 1985, 1990, 1995, and 2000. 1. Airfield facilities a. Runway (3,500x45m); parallel taxiway (720m in 1985, 3,500m in 2000); passenger apron (5 berths in 1985, 13 in 2000); cargo apron (2 berths in 1985, 4 in 2000) 2. Building a. Passenger terminal (11,000 sq.m in 1985, 23,000 in 2000); cargo terminal (1900 sq.m in 1985, 3,500 in 2000) b. Navigational aids/telecommunications: Meteorological facilities, Aeronautical fixed service; aeronautical mobile service; radio navigational aids (ILS Category I, VOR/DME, NDB & locator) 4. Lighting (approach lighting system; visual approach slope indicator; runway & taxiway lights; etc.) 5. Power supply and fuel supply facilities. * Cost 1) is for two-stage construction, and 2) for four-stage construction.																			
5. TYPE OF STUDY	F/S	4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility:	ERR1) 15.00	ERR1) 0.15															
6. COUNTERPART AGENCY	AASANA/ Administration of Airport and Supplementary Services for Air Navigation	Yes	ERR2) 4.13	ERR3) 7.17																	
7. OBJECTIVES OF STUDY	To forecast air transport demand and examine technical and economic feasibility of the Project	Conditions and Development Impacts: Conditions: 1. Project life of 20 years; discount rate 10% 2. Traffic forecast: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 10%;">Passengers ('000)</td> <td style="width: 10%;">Cargo ('000)</td> <td style="width: 10%;">Aircraft Movements</td> </tr> <tr> <td></td> <td>Dom. Int'l</td> <td>Dom. Int'l</td> <td></td> </tr> <tr> <td>1990</td> <td>1,054 355</td> <td>15.3 30.3</td> <td>62,970</td> </tr> <tr> <td>2000</td> <td>2,214 2,075</td> <td>3.4 6.7</td> <td>132,060</td> </tr> </table> 3. Quantifiable benefits: 1) upgraded services, 2) time saving by improved baggage handling, 3) shortened travel time by opening direct routes, 4) increased accommodation of passenger traffic demands, 5) reduced airport maintenance cost, and 6) saving in road tunnel construction. 4. ERRs are calculated for 1) alternatives of tariff rates and 2) alternatives of construction. ERRs above are for the two-stage construction, with 1) for current rates, 2) for increased rates-A and 3) for increased rates-B. Development Impacts: 1. Contribution to socio-economic development of Bolivia. 2. Increased importance of the airport as a relay point of north-south international air routes. 3. Contribution to the regional development from the high-quality air cargo service to Santa Cruz State.					Passengers ('000)	Cargo ('000)	Aircraft Movements		Dom. Int'l	Dom. Int'l		1990	1,054 355	15.3 30.3	62,970	2000	2,214 2,075	3.4 6.7	132,060
	Passengers ('000)	Cargo ('000)	Aircraft Movements																		
	Dom. Int'l	Dom. Int'l																			
1990	1,054 355	15.3 30.3	62,970																		
2000	2,214 2,075	3.4 6.7	132,060																		
8. DATE OF SAW	1977/3	Imp. Period:		1978.6-1980.12																	
9. CONSULTANT(S)	Japan Airport Consultants, Inc.	10. STUDY TEAM No. of Members 17 Period Apr. 1977-Dec. 1977 (8 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 10%;">Total M/M</td> <td style="width: 10%;">Japan</td> <td style="width: 10%;">Field</td> </tr> <tr> <td></td> <td style="text-align: center;">32.60</td> <td style="text-align: center;">16.00</td> <td style="text-align: center;">16.60</td> </tr> </table>					Total M/M	Japan	Field		32.60	16.00	16.60								
	Total M/M	Japan	Field																		
	32.60	16.00	16.60																		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		11. RELATIVE ADVANTAGE OVER THE NEIGHBOURING COUNTRIES IN CARGO HANDLING CAPABILITY PROVIDED BY THE INTERNATIONAL-STANDARD AIRPORT: 1) Improvement was urgently needed because of the operational restrictions at the International Airport of La Paz; 2) Joint Committee for the development was established with the strong support of Santa Cruz Development Authority; 3) In cooperation with La Paz, citizens of Santa Cruz desired establishment of the high-level international airport.				2. MAJOR REASONS FOR PRESENT STATUS															
12. EXPENDITURE		12. TECHNICAL TRANSFER 1) Joint Study tour of NPIA, TIA, Tokyo ATO Center, etc. 2) Local consultants' participation: Geological Survey, boring tests, material tests, part of road design 3) Others: Participation in JICA's Aerodrome Seminar 4) All the four counterpart officials at the time have moved out to the private				3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ④															

和名 ビルビル国際空港計画

(F/S, D/D)

PROJECT SUMMARY (Basic Study)

Compiled Mar. 1990
Revised Mar. 1996

CSA BOL/S 501/78

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1. COUNTRY	Bolivia	1. SITE OR AREA	Chapare Area(20,000 sq.m)			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Topographic Mapping Project for Chapare Area	2. PROJECT COST	(US\$1,000)	1) 2)	Total Cost Local Cost Foreign Cost	(Description) (FY1991 Overseas Survey) Maps have been served as a basis to construct new roads in Chapare Area. Equipments provided by the Japanese government have been well utilized even after more than ten years. The IOI desires Japanese assistance for another topographic mapping project in the Northern La Paz Area. (FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) The results and performances of this study are utilized for -- Planning the route of trunk roads, Agricultural development plan, Development plan of new coca farms, and Provision of the land ledger of coca farms.	
3. SECTOR	Social Infrastructure/Survey & Mapping	3. CONTENTS OF MAJOR PROJECT(S)			National base map (scale: 1/50,000; 44 plates)		
4. REFERENCE NO.							
5. TYPE OF STUDY	Basic Study						
6. COUNTERPART AGENCY	Instituto Geografico Militar						
7. OBJECTIVES OF STUDY	To prepare basic information for development planning						
8. DATE OF S/W	1974/6						
9. CONSULTANT(S)	International Engineering Consultants Association	4. CONDITIONS AND DEVELOPMENT IMPACTS Maps are expected to serve as a base for development planning					
10. STUDY TEAM	No. of Members 55 Period May. 1975-Mar. 1978 (35 months) Total M/M Japan Field						
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY							
12. EXPENDITURE	Total 565,818 (¥000) Contracted	5. TECHNICAL TRANSFER			3. PRINCIPAL SOURCE OF INFORMATION		
		OST on aerephoto mapping techniques			①, ②		
						2. MAJOR REASONS FOR PRESENT STATUS	

和名 チャパレー地区地図作成事業

[M/P, Basic Study, Other]

PROJECT SUMMARY (Basic Study)

Compiled Mar. 1991
Revised Mar. 1996

CSA BOL/A 501/79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1. COUNTRY	Bolivia	1. SITE OR AREA	Chapare District and surrounding regions in Cochabamba Province			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued					
2. NAME OF STUDY	Land Use Mapping Project for Chapare Area	2. PROJECT COST	(US\$1,000)	Total Cost	Local Cost	Foreign Cost	(Description) (FY1995 Domestic Survey) On March, 1980, when the SW Mission and the Survey Team visited Bolivia simultaneously and commence the practical discussion with Bolivian side, it was disclosed that the project was already being carried on by the Government of Bolivia. Therefore, the Mission and the Survey Team quitted the planned survey works and made an evaluation and some of advice for the implementation of the project, and left back to Japan following to the instructions given by JICA's Headquarter. (FY1995 Overseas Survey) The results and performances of this study are utilized for:- - to grant the state qualification for engineers, - to grant the right to utilize the forest for private firms and to settle the rate of commission, and - to settle the preventive measures for the transportation within the region. The maps and the various technological data are utilized at various schools and enterprises.					
3. SECTOR	Agriculture/Agriculture in/General	3. CONTENTS OF MAJOR PROJECT(S)	We visited the project site to conduct basic data study necessary drawing a land use map in Chapare District. However a part of it has already completed in governmental sector, therefore we changed the objective of the study to giving technical comment and the evaluation of its results by the advice of Japanese embassy. Main contents of the advices, as a result of field investigation and examination of materials, are: 1. To improve road infrastructure 2. To take consideration into improvement of farm land including preventing soil erosion. 3. To establish and manage distribution and process system of farm products 4. To investigate the possibility to produce Kenaf (asbiri hemp) coconut palm and sago palm. 5. To put more importance on beef cattle than on milch cows.									
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	Technical evaluation and advice are carried out for a oblique division map, a river system map, a geological map, a agronomical map, a botanical map, a land use map and a forest map. These maps were being made by Government of Bolivia, based on the topographical map that had been made in cooperation with Japan.									
5. TYPE OF STUDY	Basic Study	10. STUDY TEAM	No. of Members 9 Period Feb. 1980-Mar. 1980 (2 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;">8.43</td> <td style="text-align: center;">3.83</td> <td style="text-align: center;">4.60</td> </tr> </table>			Total M/M		Japan	Field	8.43	3.83	4.60
Total M/M	Japan	Field										
8.43	3.83	4.60										
6. COUNTERPART AGENCY	Department of Farmers, Agriculture and Animal Husbandry	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None									
7. OBJECTIVES OF STUDY	Evaluation and suggestion of Land Use mapping for Chapare Area (2 million ha) managed by Government of Bolivia.	12. EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">46,720 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">33,686</td> </tr> </table>			Total		46,720 (¥'000)	Contracted	33,686		
Total	46,720 (¥'000)											
Contracted	33,686											
8. DATE OF S/W	/	5. TECHNICAL TRANSFER										
9. CONSULTANT(S)	Agricultural Development Consultants Association Hippen Keel Co., Ltd. Sanyu Consultants Inc.	3. PRINCIPAL SOURCE OF INFORMATION	①, ②									
2. MAJOR REASONS FOR PRESENT STATUS												

和名 チャパレー地区土地利用図作成

PROJECT SUMMARY (F/S)

Compiled Mar. 1986
Revised Mar. 1996

CSA BOL/S 303/82

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Bolivia	1. SITE OR AREA	Whole country				I. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY National Telecommunication Network Project		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	
				51,196	15,956	35,640	
				1) (US\$1,000)	2)	3)	
				(US\$1=24.5 pesos=220 yen)			
3. SECTOR Communications & B/Telecommunication		3. CONTENTS OF MAJOR PROJECT(S)					
4. REFERENCE NO.		1) Construction of microwave network system: - Microwave system: 21 sections - VHF system: 19 sections - VHF system: 69 sections					
5. TYPE OF STUDY		2) Establishment of toll public telephone facilities in remote area: - Toll public telephone facilities: 59					
6. COUNTERPART AGENCY BTEL		3) Construction of local telephone offices and outside plants: - Total number of line units: 13,900					
7. OBJECTIVES OF STUDY Telecommunications network improvement and expansion in medium and small cities mainly in the southwestern region of Bolivia		4) Expansion of the long distance subscriber toll dialing network: The analog system will be adopted. Existing automated switching system will be converted to the manual non-delay service switching system.					
8. DATE OF SAV		5) Set up the long distance toll public telephones: The service be automated by setting the VHF circuits. Charging work and line status supervision will be entrusted to each toll public telephone offices.					
1981/7		6) Establishment of the telephone offices in the medium sized cities: The digital electronic switching system (expandable upto 4,000 terminals).					
9. CONSULTANT(S) Nippon Telecommunication Consulting Co., Ltd.		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 9.87 EIRR2) EIRR3)	EIRR1) 7.65 EIRR2) EIRR3)	
10. STUDY TEAM No. of Members 14 Period Jan. 1982-Sep. 1982 (8 months)		Conditions and Development Impacts: By the implementation of this project, the subscriber trunk dialling system will become available for mutual connections among seven major cities of Bolivia and among 12 medium and small local cities in the southwestern region of the country. At the same time, the telecommunications network in remote areas in the southwestern region will be remarkably improved.					
Total M/M		Japan		Field		2. MAJOR REASONS FOR PRESENT STATUS - Extreme inflation of the economy - Proposed technologies became outdated during the postponement.	
27.00		15.17		11.83			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER					
12. EXPENDITURE		1) Trainee acceptance: 2 counterparts invited to Japan 2) On the job training (BTEL counterparts)					
Total		81,766 (¥000)					
Contracted		49,194					
		3. PRINCIPAL SOURCE OF INFORMATION ①, ②					

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1996

CSA BOL/S 302/82

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																	
1. COUNTRY Bolivia		1. SITE OR AREA Between Taperas and Robore, and between Ipias and Robore on the Eastern Line				1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Partially Completed <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																	
2. NAME OF STUDY Railway Construction/Rehabilitation Project (Eastern Line: Taperas-Robore and Ipias-Robore)		2. PROJECT COST (US\$1,000)				(Description) March 1980 Application for a yen credit February 1982 Completion of F/S August 1982 E/M on yen loan March 1983 Signing of I/A May 1984 Completion of b/d September 1985 Conclusion of contract and start of construction February 1988 Completion of construction and start of operation (FY1991 Overseas Survey) The rehabilitation of the national railway ensured the safe and reliable transportation of agricultural products, and the farmers living along the railway line have been increasing agricultural production. With the remaining balance of the loan (150 million yen), the replacement of the used rails with new rails is now on-going. *Contents of OECF Loan (1) Contents Civil works Main Constructions (9 bridges, 6 Culverts and other), Pails and Spair parts. (2) Loan target Civil works, Main Constructions, Some of Consultant expenses. (FY1994 Domestic Survey) The construction works has been completed in Mar.1989. Rails and spare parts have been purchased and delivered to the sites in 1993. The rail laying works has been implementing since Sep.1994 and lasting in Dec.1994. The improved sections are in actual use without any problem. However, there are still many defective structures and inferior roadbed portions on other sections, and capacities of these sections are not being sufficiently utilized. To cope with this situation, OECF conducted SAPS survey and is now in the midst of monitoring.																	
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">1)</td> <td style="width: 15%;">Total Cost</td> <td style="width: 15%;">Local Cost</td> <td style="width: 15%;">Foreign Cost</td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>2)</td> <td>33,865</td> <td>11,883</td> <td>21,982</td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td>(US\$1=19.99 pesos)</td> <td>32,714</td> <td>10,905</td> <td>21,809</td> </tr> </table>							1)	Total Cost	Local Cost	Foreign Cost			2)	33,865	11,883	21,982			3)	(US\$1=19.99 pesos)	32,714
	1)	Total Cost	Local Cost	Foreign Cost																			
	2)	33,865	11,883	21,982																			
	3)	(US\$1=19.99 pesos)	32,714	10,905	21,809																		
3. SECTOR Transportation/Railway		3. CONTENTS OF MAJOR PROJECT(S) Earthwork (cutting, embarking) 145,000cu.m Bridges 9 places 325m Culverts 7 places Tracks (provisional and main tracks) 11.7km																					
4. REFERENCE NO.																							
5. TYPE OF STUDY F/S																							
6. COUNTERPART AGENCY Bolivian National Railways (DNRF)																							
7. OBJECTIVES OF STUDY F/S for the rehabilitation of the Eastern and Western Lines and preparation of a detailed rehabilitation plan for the section between El Forton and Robore on the Eastern Line																							
8. DATE OF S/V 1979/4		Imp. Period: 1985.12-1988.2																					
9. CONSULTANT(S) Japan Railway Technical Service		4. FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes		FIRR1) 26.10 FIRR1) 9.20 FIRR2) FIRR2) FIRR3) FIRR3)																			
10. STUDY TEAM No. of Members 103 Period Jun.1979-Mar.1982 (21 months) Total M/M Japan Field 201.47 129.93 71.54		<p>Conditions and Development Impacts:</p> <ul style="list-style-type: none"> - The FIRR is 10.27 when based on the face revenue decrease estimated for the without case and the necessary rehabilitation cost. - This project would contribute to the reduction in expenses rather than an increase in revenues. - It would also contribute towards the stabilization of surface transport to and from Brazil. 																					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY						2. MAJOR REASONS FOR PRESENT STATUS High priority was put on this project, since there are no nodes of surface transport other than the railway.																	
12. EXPENDITURE Total 415,881 (¥000) Contracted 405,849		5. TECHNICAL TRANSFER 1) Training in civil engineering for counterpart personnel 2) Utilization of a local consultant for construction work				3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ③																	

和名 国鉄復旧計画

(F/S,D/D)

PROJECT SUMMARY (M/P+F/S)

Compiled Mar. 1990
Revised Mar. 1996

CSA BOL/S 201B/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY Bolivia		1. SITE OR AREA El Alto Airport, La Paz				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 El Alto Airport Modernization Project		2. PROJECT COST (US\$1,000) (US\$1=150 Yen)				(Description) 1989.5 requested OECF loan (US\$3.4 million) The government is waiting for a favorable response from the OECF. (FY1991 Overseas Survey) The original estimate of \$14.9 mil. for the total cost assuming the complete reconstruction of the airport was discarded (too costly relative to the Viru Viru Airport) and was reduced to \$4.95 million for an alternative project design. (FY1992 Overseas Survey) The Project has been reviewed. Total Cost US\$ 65,306,650 Local Cost US\$ 23,906,650 Foreign Cost US\$ 41,400,000 The government of Bolivia requested Japanese Grant for 1996. Conditions: <M/P> Year 1985 1985 1997 2005 Annual Passengers Domestic 413,000 1,030,000 1,700,000 International 133,000 289,000 440,000 Annual Cargo Volume (ton) Domestic 6,700 15,400 26,900 International 5,800 15,600 25,700 <F/S> Safety and efficiency of air transportation will be promoted by improvement and expansion of existing old and small capacity facilities. This will increase trade and business opportunity, expand employment, and attract foreign tourists, contributing to the growth of the national economy of Bolivia. (FY1993 Overseas Survey) The policy for the development of Airport is settled in order to implement according to the plan based on the survey results, and to keep the present situations of each existing areas as well as possible. Only for a part of extension, the financing has been approved by JICA. Some part of the fund will be by Grant Aid Basis, and remainder will be started necessary procedures to realize in 1996. (FY1994 Domestic Survey) Upon the safety operation of airplanes, the Government of Japan has extended a grant aid assistance for the Project for Modernization of El Alto International Airport which included rehabilitation of the air navigation equipment, construction of an air traffic control tower, equipment building, turning pad and runway blast pad.	
3. SECTOR Transportation/Air Transportaion & Airport		3. CONTENTS OF MAJOR PROJECTS <M/P> Development Phases of Airport Master Plan: 1) Immediate Improvement Work (1988 -1993) : Total project cost US\$579,000 1) Improvement of runway pavement and construction of runway shoulders and blast pads 2) Renovation of the existing passenger terminal building 2. Phase 1 Development Project (1994 - 1997) : Total project cost US\$138,000,000 1) Pavement overlay of the existing runway 2) Construction of taxiways, aprons, roads and a car park, a new passenger terminal building, a new cargo building, a new administration building and control tower 3) Improvement of air navigation systems 3. Phase 2 Development Project (1998 - 2005) (Total project cost US\$1,030,000,000) 1) Pavement overlay of the existing runway; 2) Expansion of aprons; 3) Expansion of car park, passenger terminal building and cargo terminal building; 4) Replacement of air navigation systems <F/S> Major First Stage Construction Works: a) Pavement overlay of the existing runway 4,000m x 6m, 14cm thick b) Construction of taxiways 4,000m x 20.5m c) Passenger terminal apron (324.5m x 131m) d) Freight terminal apron (97.5m x 131m) e) Construction of roads and a car park l) lump sum f) Passenger terminal building (total floor area 16,500 sq.m) g) Freight terminal building (total floor area 5,000 sq.m) h) Administration buildings and control tower (total floor area 4,000 sq.m) i) Improvement of air navigation systems l) lump sum j) Other related facilities					
4. REFERENCE NO.		Imp. Period: 1991.7-1993.12				2. MAJOR REASONS FOR PRESENT STATUS <M/P> High priority is placed in the national development plan as important and urgent. <F/S> Lack of external funds.	
5. TYPE OF STUDY M/P+F/S		4. FEASIBILITY AND ITS ASSUMPTIONS Feasibility: EIRR1 18.20 EIRR2 4.00 Yes EIRR3 EIRR4					
6. COUNTERPART AGENCY Administración de Aeropuertos y Servicios Auxiliares a la Navegación Aérea		Conditions and Development Impacts: Conditions: <M/P> Year 1985 1985 1997 2005 Annual Passengers Domestic 413,000 1,030,000 1,700,000 International 133,000 289,000 440,000 Annual Cargo Volume (ton) Domestic 6,700 15,400 26,900 International 5,800 15,600 25,700 <F/S> Project life of 25 years after completion of the construction <Impacts> <M/P, F/S> Safety and efficiency of air transportation will be promoted by improvement and expansion of existing old and small capacity facilities. This will increase trade and business opportunity, expand employment, and attract foreign tourists contributing to the growth of the national economy of Bolivia. B/C Ratio 1.74/F/S (at discount rate of 12%)					
7. OBJECTIVES OF STUDY Improvement of airport facilities		5. TECHNICAL TRANSFER 1) Seminar on computer analysis, economic/financial analysis & evaluation of aircraft noise; 2) Training in Japan; 3) Use of local consultants for geological investigation & survey; and 4) Guidance on aircraft noise measurement				3. PRINCIPAL SOURCE OF INFORMATION ①, ② Administracion de Aeropuertos y Servicios	
8. DATE OF SAV 1986/8		10. STUDY TEAM No. of Members 8 Period Jan. 1987 - Feb. 1988 (14 months) Total M/M Japan Field 37.43 16.99 20.44					
9. CONSULTANT(S) Pacific Consultants International		11. ASSOCIATED AND/OR SUB-CONTRACTED STUDY Topographic and Geological Survey, Sample Analysis				12. EXPENDITURE Total 151,820 (¥000) Contracted 133,737	
10. STUDY TEAM		11. ASSOCIATED AND/OR SUB-CONTRACTED STUDY Topographic and Geological Survey, Sample Analysis					

印名 エル・アルト空港近代化計画

状況（要約表添付文書）

CSA BOL/S 201B/87	(M/P+F/S)																																								
Name of El Alto Airport Modernization Project																																									
Study																																									
Country	Bolivia																																								
Type of Study	M/P+F/S																																								
Sector	Transportation/Air Transportaion & Airport																																								
Present Status: Implementing																																									
(Description)																																									
<p>1989.5 requested OECF loan (US\$3.4 million) The government is waiting for a favorable response from the OECF.</p> <p>(FY1991 Overseas Survey) The original estimate of \$14.9 mil. for the total cost assuming the complete reconstruction of the airport was discarded (too costly relative to the Viru Viru Airport) and was reduced to \$4.95 million for an alternative project design.</p> <p>(FY1992 Overseas Survey) - The Project has been reviewed. Total Cost \$US 65,306,650 Local Cost \$US 20,906,650 Foreign Cost \$US 44,400,000</p> <p>- The government of Bolivia requested Japanese Grant for 1996.</p> <p>Conditions: <M/P></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Air Traffic Demand</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> <tr> <th>Year</th> <th>1985</th> <th>1997</th> <th>2005</th> <th></th> </tr> </thead> <tbody> <tr> <td>Annual Passengers</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> Domestic</td> <td style="text-align: right;">413,000</td> <td style="text-align: right;">1,030,000</td> <td style="text-align: right;">1,700,000</td> <td></td> </tr> <tr> <td> International</td> <td style="text-align: right;">133,000</td> <td style="text-align: right;">280,000</td> <td style="text-align: right;">440,000</td> <td></td> </tr> <tr> <td>Annual Cargo Volume (ton)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> Domestic</td> <td style="text-align: right;">6,700</td> <td style="text-align: right;">15,400</td> <td style="text-align: right;">26,900</td> <td></td> </tr> <tr> <td> International</td> <td style="text-align: right;">5,800</td> <td style="text-align: right;">15,600</td> <td style="text-align: right;">25,700</td> <td></td> </tr> </tbody> </table> <p><Impacts><M/P, F/S> Safety and efficiency of air transportation will be promoted by improvement and expansion of existing old and small capacity facilities. This will increase trade and business opportunity, expand employment, and attract foreign tourists, contributing to the growth of the national economy of Bolivia.</p> <p>(FY1993 Overseas Survey) The policy for the development of Airport is settled in order to implement according to the plan based on the survey results, and to keep the present situations of each existing areas as well as possible. Only for a part of extension, the financing has been approved by JICA. Some part of the fund will be by Grant Aid Basis, and remainder will be started necessary procedures to realize on 1996.</p> <p>(FY1994 Domestic Survey) Upon the safety operation of airplanes, the Government of Japan has extended a grant aid assistance for the Project for Modernization of El Alto International Airport which included rehabilitation of the air navigation equipment, construction of an air traffic control tower, equipment building, turning pad and runway blast pad. The basic design and detailed design for the Project was completed by June 1994. And the Exchange of Note for the construction signed on the day of 20th September 1994.</p> <p>(FY1995 Domestic Survey) No additional information.</p> <p>(FY1995 Overseas Survey) Under the construction since March, 1995, and expected to complete on January, 1997.</p>				Air Traffic Demand			Year	1985	1997	2005		Annual Passengers					Domestic	413,000	1,030,000	1,700,000		International	133,000	280,000	440,000		Annual Cargo Volume (ton)					Domestic	6,700	15,400	26,900		International	5,800	15,600	25,700	
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PROJECT SUMMARY (F/S)

Compiled Mar.1992
Revised Mar.1996

CSA BOL/S 305/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1. COUNTRY	Bolivia	1. SITE OR AREA	El Alto District, excluding the airport area (71.5 sq.km) (The District was upgraded to El Alto City during the present study)		1. PRESENT STATUS												
2. NAME OF STUDY	Groundwater Development Project on El Alto District in La Paz City	2. PROJECT COST	Total Cost 14,575	Local Cost 11,952	Foreign Cost 2,623												
			1) (US\$1,000) US\$1=123.5 yen	2) 8,907	3) 7,126												
3. SECTOR	Public Utilities/Water Supply	3. CONTENTS OF MAJOR PROJECTS	<p>1. Potentials of groundwater development</p> <ul style="list-style-type: none"> - Southeastern side of Rio Seco (12km, intake of 30,000 cu.m/day) - Northwestern side (10km, intake of 20,000 cu.m/day) <p>2. Major facilities</p> <ul style="list-style-type: none"> - Water intake wells: <table style="margin-left: 20px; border: none;"> <tr> <td>42 cu.m/h x 15m x 3000 x 37km</td> <td>6 sets</td> <td>-</td> </tr> <tr> <td>42 cu.m/h x 120m x 3000 x 30km</td> <td>6 sets</td> <td>2 sets</td> </tr> <tr> <td>42 cu.m/h x 95m x 3000 x 22km</td> <td>12 sets</td> <td>12 sets</td> </tr> <tr> <td>42 cu.m/h x 72m x 3000 x 15km</td> <td>6 sets</td> <td>6 sets</td> </tr> </table> - Water conveyance facilities (Main pipeline 58km) - A junction well, a pumping well and related facilities <p>* Costs shown above pertain to water intake facilities only.</p>			42 cu.m/h x 15m x 3000 x 37km	6 sets	-	42 cu.m/h x 120m x 3000 x 30km	6 sets	2 sets	42 cu.m/h x 95m x 3000 x 22km	12 sets	12 sets	42 cu.m/h x 72m x 3000 x 15km	6 sets	6 sets
42 cu.m/h x 15m x 3000 x 37km	6 sets	-															
42 cu.m/h x 120m x 3000 x 30km	6 sets	2 sets															
42 cu.m/h x 95m x 3000 x 22km	12 sets	12 sets															
42 cu.m/h x 72m x 3000 x 15km	6 sets	6 sets															
4. REFERENCE NO.		<p>(Description)</p> <p>Oct. 1988 E/N for Japanese General Grant Aid (1,693 million yen)</p> <p>Phase 1 construction: 15 intake wells, conveyance pipelines 27.6km, 5 pumps, 1 distribution pond, distribution pipes 9.35km, etc.</p> <p>Jun. 1989 E/N for Japanese General Grant Aid (691 million yen)</p> <p>Phase 2 construction: 14 intake wells, conveyance pipelines 11.2km, distribution pipes 9.6km, etc.</p> <p>The SAMAPA is currently extending the piping for water supply with its own budget. The existing facilities can supply 5,000 cu.m per day, relative to the planned target of 30,000 cu.m for the year 2009.</p> <p>(FY1994 Domestic Survey)</p> <p>Now-a-days, SAMAPA is continuing the construction works of water service pipelines by its own budget, and the number of population served and the required amount of water supply are gradually increasing. The planned water supply amount in 2009, the year of target, is 30,000 cubic meter a day, compared with 5,800 in 1994.</p> <p>However, at present, actual supply amount is only about 3,000 cubic meter a day, equivalent to only 50 per cent of planned figure and it seems to be very hard to improve.</p> <p>As the result of the operation of this facility, the stringent situation of the water supplement for the City of El Alto has been rather mitigated. But, it would be still necessary to improve furthermore by means of extension of service pipelines to increase the water supply amount and to dissolve the non-service area in the City.</p> <p>On the other hand, the Cities of La Paz and El Alto, which are with SAMAPA's service, are still suffering the serious water shortage due to the delay of development of the water resources, except this project area.</p> <p>Therefore, it is considered that it may be about the time to establish supporting water supply facilities in the other area, which has been recommended by the F/S, in order to increase the water supply amount.</p>															
5. TYPE OF STUDY	F/S																
6. COUNTERPART AGENCY	Servicio Autonómico Municipal de Agua Potable y Alcantarillada (SAMAPA)	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	1990. -1995. 1995. -2000.	ERR1) FRR1) ERR2) FRR2) ERR3) FRR3)												
7. OBJECTIVES OF STUDY	Water supply for El Alto District, utilizing underground water	<p>Conditions and Development Impacts:</p> <ul style="list-style-type: none"> - Water supply target for 1995: 26,700 cu.m/day (pop. estimate of 385,000 and demand of 155 liters/man/day) - Water supply target for 2000: 46,200 cu.m/day (pop. estimate of 495,000 and demand of 160 liters/man/day) <p>Impacts:</p> <p>Because of the rapid population increase in La Paz City (pop. one million), the supply of urban services, especially of drinking water, falls short of the growing demand. El Alto District, a newly expanding area of the La Paz metropolitan area, has been receiving large inflows of former mine workers, and it is extremely important to secure stable sources of water supply. The existing purification plant (water intake from Lake Tuní) does not have the capacity, and it is urgently needed to develop groundwater resources.</p>															
8. DATE OF S/W	1986/10	<p>2. MAJOR REASONS FOR PRESENT STATUS</p> <p>The early implementation was expected to contribute greatly to the realization of social stability, one of the primary national objectives.</p>															
9. CONSULTANT(S)	Kyowa Engineering Consultants Co., Ltd.																
10. STUDY TEAM	<p>No. of Members 6</p> <p>Period Jan.1987-Jan.1988 (13 months)</p> <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;">22.00</td> <td style="text-align: center;">8.00</td> <td style="text-align: center;">14.00</td> </tr> </table>	Total M/M	Japan	Field	22.00	8.00	14.00	<p>3. PRINCIPAL SOURCE OF INFORMATION</p> <p>①, ②</p>									
Total M/M	Japan	Field															
22.00	8.00	14.00															
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	<ul style="list-style-type: none"> - Geological survey - Electrical prospecting - Groundwater level survey 	<p>5. TECHNICAL TRANSFER</p>															
12. EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">94,738 (¥000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">65,213</td> </tr> </table>	Total	94,738 (¥000)	Contracted	65,213												
Total	94,738 (¥000)																
Contracted	65,213																

和名 ラパス市エル・アルト地区地下水開発計画

[F/S,D/D]

PROJECT SUMMARY (F/S)

Compiled Mar.1990
Revised Mar.1996

CSA BOL/S 304/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Bolivia	1. SITE OR AREA Road between San Borja and Trinidad				1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Discontinued or Cancelled <input type="checkbox"/> Processing	
2. NAME OF STUDY Mejoramiento de la carretera entre San Borja y Trinidad		2. PROJECT COST (US\$1,000)				(Description) Jan.1989 D/D completed by Central Consultant Dec.1989 Requested Inter-American Development Bank (IDB) financing (road construction) IDB has long been financing the improvement of Route 1 which includes the San Borja-Trinidad section. The IDB-financed construction of the Cotapata-Santa Barbara section is scheduled to begin in 1991, and the implementation of the San Borja-Trinidad section is expected to start after this project. IDB requires environmental impact assessment as a condition for its loan approval. (FY1991 Overseas Survey) According to SENAC, the construction is being planned to start sometime during 1995-1998. The cost is estimated to be US\$89 million, of which 80% (US\$71 million) will be obtained from IDB and 20% from the government funds. The construction will follow the results of F/S and D/D by JICA. (FY1993 Overseas Survey) The project has been given the top priority among various national projects. Construction works of two bridges are commenced with an amount of \$964 mil of state budget. Five bridges has been completed the construction works recently and another one bridge is now expanding its width. Another three sections with a total distance of 156km along Route 1 has been constructed. (FY1994 Domestic Survey) No additional information. (FY1995 Domestic Survey) At present, the final report of the survey works of environmental effects is being compiled by JICA. (FY1995 Overseas Survey) The JICA's survey works for environmental effects, started from 1994, were completed on August, 1995 and now on the stage to check and revise the final report. And based on the results of JICA's design, 5 bridges were constructed. It is going to construct additional 10 bridges and the colgate pipes for sewage which were requested by municipalities.	
3. SECTOR Transportation/Road		3. CONTENTS OF MAJOR PROJECT(S) 1) First Phase Enlightenment over 222 km, related structures, preparation of pavement, sub base, etc. 2) Asphalt pavement between San Borja and Puerto Barradero 3) A ferry terminal 2) Second Phase Asphalt pavement over 212 km from San Borja to Puerto Ganadero					
4. REFERENCE NO.		Imp. Period: 1989. -1991. 1994. -1995.				2. MAJOR REASONS FOR PRESENT STATUS	
5. TYPE OF STUDY F/S							
6. COUNTERPART AGENCY Servicio Nacional de Caminos		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	EIRR1) EIRR2) EIRR3)	
7. OBJECTIVES OF STUDY Technical survey, preliminary design and evaluation of socio-economic impacts		Conditions and Development Impacts: Economic evaluation was done during the D/D study (See next page).				3. PRINCIPAL SOURCE OF INFORMATION ①, ② Servicio Nacional de Caminos	
8. DATE OF S/W 1985/8		5. TECHNICAL TRANSFER Surveying technique-road construction and superstructure design technique were transferred.					
9. CONSULTANT(S) Central Consultant, Inc. CIT Engineering Co., Ltd.		10. STUDY TEAM No. of Members Period Nov.1985-Jul.1987 (21 months)		Total M/M Japan Field 72.45 25.26 47.19			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Environmental Survey		12. EXPENDITURE Total 458,528 (¥000) Contracted					

和名 サンボルハートリニダ道路改良

PROJECT SUMMARY (D/D)

Compiled Mar. 1990
Revised Mar. 1996

CSA BOL/S 401/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT						
1. COUNTRY	Bolivia	1. SITE OR AREA	Road between San Borja and Trinidad			I. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled					
2. NAME OF STUDY	Mejoramiento de la carretera entre San Borja y Trinidad	2. PROJECT COST (US\$1,000)	1) Total Cost 61,771	Local Cost 24,649	Foreign Cost 37,122	(Description) Dec. 1989 Requested the Inter-American Development Bank (IDB) financing. Note: The IDB has long been financing the improvement of Route 1 which includes the San Borja-Trinidad section. The IDB-financed construction of the Cotapata-Santa Barbara section is scheduled to begin in 1991, and the implementation of the San Borja-Trinidad section is expected to start after this project. The IDB requires an environmental effect assessment as a condition for its loan approval. (FY1991 Overseas Survey) It is not certain yet when the construction begins: according to SEMUC, it is supposed to start between 1995 and 1998. The total project cost is US \$89mil., out of which \$57mil.(80%) will be financed by the IDB and the rest \$32mil.(20%) by the Bolivian government. The project will be implemented according to the P/S and D/D, and no change in design is expected. SEMUC regards the policy of the IDB as having changed so that it will provide no further assistance in road construction. (FY1992 Overseas Survey) 1993 L/A Signed (IDB \$US 3.5 million) for the Ecological Economic Land Use Study Project. The L/A was ratified at the national congress in February 1993. (FY1993 Overseas Survey) The project has been given the top priority among various national projects. Construction works of two bridges are commenced with an amount of \$964 mil of state budget. Five bridges has been completed the construction works recently and another one bridge is now expanding its width. Another three sections with a total distance of 156km along Route 1 has been constructed. (FY1994 Domestic Survey) In 1994, IDB called out the environmental effect assessment study and complete the final report of it in Jul.1995. (FY1995 Domestic Survey) At present, the final report of the survey works of environmental effects is being compiled. (FY1995 Overseas Survey)						
3. SECTOR	Transportation/Road	3. CONTENTS OF MAJOR PROJECT(S)	First Phase Construction: - Road improvement - Bridge construction (total length after improvement 229 km (including the ferry-served 7 km), 9 bridges)									
4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 24.76 EIRR2) EIRR3)	EIRR1) EIRR2) EIRR3)	(FY1995 Domestic Survey) At present, the final report of the survey works of environmental effects is being compiled. (FY1995 Overseas Survey)						
5. TYPE OF STUDY	D/D	Conditions and Development Impacts: Development Impacts: 1) The project will complete the connection between La Paz and Santa Cruz, providing the large-scale ring road connecting the country's major cities. 2) The project will provide all-weather road in the section where travel is not possible during the rainy season, and stimulate the development of the surrounding hinterland. 3) Transportation of goods between the project area and La Paz are done by air, but the proposed road will improve surface transportation means and reduce transport costs.										
6. COUNTERPART AGENCY	Servicio Nacional de Caminos	7. OBJECTIVES OF STUDY	Basic design				2. MAJOR REASONS FOR PRESENT STATUS					
8. DATE OF S/W	1987/7	8. DATE OF S/W	Imp. Period: 1990. -1993.									
9. CONSULTANT(S)	Central Consultant, Inc.	9. CONSULTANT(S)	Central Consultant, Inc.				3. PRINCIPAL SOURCE OF INFORMATION ①, ② Servicio Nacional de Caminos					
10. STUDY TEAM	No. of Members 7 Period Sep. 1987-Jan. 1989 (16 months) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">46.54</td> <td style="text-align: center;">14.57</td> <td style="text-align: center;">31.97</td> </tr> </table>	Total M/M	Japan	Field	46.54	14.57			31.97			
Total M/M	Japan	Field										
46.54	14.57	31.97										
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Measurement and geological survey	12. EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">245,542 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">232,720</td> </tr> </table>				Total	245,542 (¥'000)	Contracted	232,720		
Total	245,542 (¥'000)											
Contracted	232,720											
		5. TECHNICAL TRANSFER	OJT on computerized efficient designing, hydrologic analysis, and drainage technology.									

和名 サンボルハートリニダ道路改良

Continued on (F/S,D/D)

状況 (要約表添付文書)

CSA BOL/S 401/88	(D/D)
Name of Study Mejoramiento de la carretera entre San Borja y Trinidad	
Country	Bolivia
Type of Study	D/D
Sector	Transportation/Road
Present Status: Partially Completed	
(Description)	
Dec.1989 Requested the Inter-American Development Bank (IDB) financing. Note: The IDB has long been financing the improvement of Route 3 which includes the San Borja-Trinidad section. The IDB-financed construction of the Cotagasta-Santa Barbara section is scheduled to begin in 1991, and the implementation of the San Borja-Trinidad section is expected to start after this project. The IDB requires an environmental effect assessment as a condition for its loan approval.	
(FY1991 Overseas Survey) It is not certain yet when the construction begins; according to SENAC, it is supposed to start between 1995 and 1998. The total project cost is US \$89mil., out of which \$57mil.(60%) will be financed by the IDB and the rest \$32mil.(20%) by the Bolivian government. The project will be implemented according to the F/S and D/D, and no change in design is expected. SENAC regards the policy of the IDB as having changed so that it will provide no further assistance in road construction.	
(FY1992 Overseas Survey) 1993 L/A Signed (IDB \$US 3.5 million) for the Ecological Economic Land Use Study Project. The L/A was ratified at the national congress in February 1993.	
(FY1993 Overseas Survey) The project has been given the top priority among various national projects. Construction works of two bridges are commenced with an amount of \$964 mil of state budget. Five bridges has been completed the construction works recently and another one bridge is now expanding its width. Another three sections with a total distance of 156km along Route 3 has been constructed.	
(FY1994 Domestic Survey) In 1994, JICA carried out the environmental effect assessment study and complete the final report of it in Jul.1995.	
(FY1995 Domestic Survey) At present, the final report of the survey works of environmental effects is being compiled.	
(FY1995 Overseas Survey) The JICA's survey works for environmental effects, started from 1994, were completed on August, 1995 and now on the stage to check and revise the final report. And based on the results of JICA's design, bridges were constructed. It is going to construct additional 10 bridges and the colgate pipes for sewage which were requested by municipalities.	

PROJECT SUMMARY (F/S)

Compiled Mar.1992
Revised Mar.1996

CSA BOL/A 301/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Bolivia	1. SITE OR AREA	Santa Ana in Tarija Dept.			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	Agricultural and Rural Development Project in Santa Ana	2. PROJECT COST (US\$1,000)	Total Cost	Local Cost	Foreign Cost	(Description)	
			1) 15,185	7,463	7,722		
3. SECTOR	Agriculture/(Agriculture) in)General	3. CONTENTS OF MAJOR PROJECT(S)	Beneficial area (irrigation): 1,090 ha Proposed facilities: - Water source (concrete gravity dam) - Sedimentation dam - Irrigation canals Main 5.4km Secondary 24.8km Reservoirs 14 nos. 20.2km 15 nos. 20.0km 3 places Educational facilities (school houses, etc.) 2 places 3 places O/M equipment 3 places				
4. REFERENCE NO.		5. TYPE OF STUDY					F/S
6. COUNTERPART AGENCY	Regional Development Corporation of Tarija	7. OBJECTIVES OF STUDY	Formulation of irrigated agriculture and rural development plans				
8. DATE OF S/W	1988/12	9. CONSULTANT(S)					Naigai Engineering Co., Ltd. Imp. Period: 1991. -1994. 4. FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes/No EIRR1) 10.20 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3) Conditions and Development Impacts: Conditions: In the agricultural development plan, the case study regarding the irrigation scale of the beneficial farmers will be made. The plan will be verified with technical and economical points of view taking the analysis of the internal rate of return and farm economy including O & M and repayment costs after completion of the project. - Economical effects borne by the rural development scheme will be incorporated with the evaluation of the project because the scheme is the major components of the project as well as the agricultural development plan in the objective areas. - Introduction of the perennial crops is indispensable for the stability of farm economy in the objective area. Out of 4 ha which is the average cultivation area of the farmer, perennial crop cultivation of 1 ha is proposed in the project. Development Impacts: Increased agricultural production 1,982,000(US\$/target year) Reduction of transportation cost by road improvement 8,370(US\$/target year) Erosion Prevention 3,850(US\$/target year) Total 1,994,220(US\$/target year)
10. STUDY TEAM	No. of Members 10 Period Jul.1989-Aug.1990(13 months) Total M/M Japan Field 38.29 11.18 27.11	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Geological Survey (Soil Test)				
12. EXPENDITURE	Total 183,787 (¥000) Contracted 132,582	5. TECHNICAL TRANSFER					Out
		2. MAJOR REASONS FOR PRESENT STATUS	The proposed development policy for FY91 and 92 by CODETAR has been oriented toward projects involving the linking of roads and basic sanitation of Tarija.				
		3. PRINCIPAL SOURCE OF INFORMATION					①, ② Regional Development Corporation of Tarija

PROJECT SUMMARY (F/S)

Compiled Mar.1992
Revised Mar.1996

CSA BOL/S 306/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Bolivia	1. SITE OR AREA Road Section between Santa Barbara and Bella Vista on the National Road 3				1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY Road Improvement between Santa Barbara and Bella Vista		2. PROJECT COST (US\$1,000)				(Description) On the National Road 3, except the section between Santa Barbara and Bella Vista, all other road sections have already improved or are just about to start the improvement works. Once these road sections will have improved, the road section between Santa Barbara and Bella Vista will obviously become the severe bottleneck for traffic. On the other hand, this road section is very notorious for its disaster occurrence and risky road section in Bolivia.	
		Total Cost Local Cost Foreign Cost 1) 188,420 84,463 103,957 2) 3)					
3. SECTOR Transportation/Road		3. CONTENTS OF MAJOR PROJECT(S)				(FY1991 Overseas Survey) Therefore, Bolivian government is requesting the Japanese Government and JICA to conduct a D/D on this project. Ministerio de Placemiento y Coordinacion ranked the project as second priority for the development projects in the fiscal 1991 from the Japanese government. (FY1992 Overseas Survey) 1991.2 Requested Japanese government for a Technical Assistance. Up to date the government of Japan has not yet answered officially this request. Bolivia is preparing a new request regarding this matter. The existing road has been improved. (FY1993 Overseas Survey) Technical Cooperation for detail designing and survey works for environmental impacts for the road section has been requested to the Government of Japan on November, 1993. After the completion of these survey works, actions for construction works will be taken. Maintenance and repairment works for this section of the road are implementing by "Servicio Nacional de Caminos" using equipment and facilities supplied by Japan. (FY1994 Domestic Survey) No additional information. (FY1995 Domestic Survey) Implementation of D/D is mentioned at the Bolivian BID Project of the year of 1997. (FY1995 Overseas Survey) Maintenance and repairment works are carrying on by means of the equipment and the fund from Japan.	
4. REFERENCE NO.		1. Total length of the projected road: 108.63km (Current road: 115.5km)					
5. TYPE OF STUDY F/S		2. Length of the widened road: 92.29km (85%)					
6. COUNTERPART AGENCY National Road Service Ministry of Transportation and Communication		3. Length of the rerouted road: 16.34km (15%)					
7. OBJECTIVES OF STUDY Feasibility Study on the road improvement between Santa Barbara and Bella Vista		4. Number of bridges: 13					
		5. Number of tunnels: 2					
		6. Pavement: asphalt and concrete pavement					
8. DATE OF S/W 1988/6		Imp. Period: 1996. -2000.					
9. CONSULTANT(S) Central Consultant, Inc. Nippon Koei Co., Ltd.		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: EIRR1) 19.70 FIRR1) Yes EIRR2) FIRR2) EIRR3) FIRR3)			
		Conditions and Development Impacts: Project Benefit is as follows: 1. Running time saving 2. Waiting time saving 3. Vehicle operating cost saving 4. Accident deduction 5. Disaster prevention 6. Transportation cost deduction from refrigerated trucks 7. Development benefit					
10. STUDY TEAM No. of Members 16 Period Aug. 1989-Mar. 1991 (17 months)							
		Total M/M		Japan Field			
		67.04		27.81 39.23			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Aerocphoto 102810206yen						2. MAJOR REASONS FOR PRESENT STATUS	
12. EXPENDITURE		5. TECHNICAL TRANSFER				3. PRINCIPAL SOURCE OF INFORMATION	
		The technical transfer was confined in the field of road design, bridge design, tunnel design and total cost calculation.				①, ② Servicio Nacional de Caminos	
		Total		315,634 (¥000)			
		Contracted		300,645			

和名 サンタバルバ - ベジャビスタ道路改良計画

(F/S, D/D)

PROJECT SUMMARY (M/P)

Compiled Mar.1993
Revised Mar.1996

CSA BOL/A 101/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS																			
1. COUNTRY Bolivia		1. SITE OR AREA Model Area of 50,000ha within a Study Area of 30,000ha in Iturrealde Province, La Paz State.			I. PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued																			
2. NAME OF STUDY Forest Resources Management		2. PROJECT COST (US\$1,000) <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">1)</td> <td style="text-align: center;">Total Cost</td> <td style="text-align: center;">Local Cost</td> <td style="text-align: center;">Foreign Cost</td> </tr> <tr> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> </table>			1)	Total Cost	Local Cost	Foreign Cost	2)				(Description) The basic idea of this study would be applied to formulate the Master Plan and to conduct feasibility study in other area in Bolivia. (FY1992 Overseas Survey) The deterioration and loss of resources are steadily increasing in the tropical zones or areas. (FY1993 Overseas Survey) Looking for the financial resources to conduct survey works and request the fund for these 2 survey to JICA. The results of JICA's study are very useful for the establishment of new plan and the settlement of new areas for borrowing as the basic data of afforestation. In order to implement the recommended items, further technical and financial cooperations are requested. (FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) No additional information.											
1)	Total Cost	Local Cost	Foreign Cost																					
2)																								
3. SECTOR Forestry/Forestry & Forest Conservation		3. CONTENTS OF MAJOR PROJECT(S) The Forest Management Plan for the model area is prepared on the basis of the surveys on forest resources, soils, land use and vegetation, environmental impact assessment, and so forth. Sector I (25,631ha) Sector II (25,121ha)																						
4. REFERENCE NO.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td>1. Nos. of Forest Compartments</td> <td style="text-align: center;">32</td> <td style="text-align: center;">29</td> </tr> <tr> <td>2. Area Classification</td> <td></td> <td></td> </tr> <tr> <td> Production forests</td> <td style="text-align: right;">20,737.02ha</td> <td style="text-align: right;">18,015.10ha</td> </tr> <tr> <td> Installations & Nurseries</td> <td style="text-align: right;">41.15ha</td> <td style="text-align: right;">45.73ha</td> </tr> <tr> <td> Protection Areas</td> <td style="text-align: right;">4,793.55ha</td> <td style="text-align: right;">4,261.88ha</td> </tr> <tr> <td> Others (forest roads, grazing areas, abandoned forest roads)</td> <td></td> <td></td> </tr> </table>			1. Nos. of Forest Compartments	32	29	2. Area Classification			Production forests	20,737.02ha	18,015.10ha	Installations & Nurseries	41.15ha	45.73ha	Protection Areas	4,793.55ha	4,261.88ha	Others (forest roads, grazing areas, abandoned forest roads)				
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Others (forest roads, grazing areas, abandoned forest roads)																								
5. TYPE OF STUDY M/P		<table style="width: 100%; border-collapse: collapse;"> <tr> <td>3. Selection of 3 species(Mara, Cedro & Verdolago) and the timber exploitation plan; Selection of 2 species(Mara & Cedro) and the re-planting plan; and Plans for forest roads and timber transportation</td> </tr> <tr> <td>4. Forest Protection Plan</td> </tr> <tr> <td>5. Suggestions on the organization of maintenance and operation</td> </tr> </table>			3. Selection of 3 species(Mara, Cedro & Verdolago) and the timber exploitation plan; Selection of 2 species(Mara & Cedro) and the re-planting plan; and Plans for forest roads and timber transportation	4. Forest Protection Plan	5. Suggestions on the organization of maintenance and operation																	
3. Selection of 3 species(Mara, Cedro & Verdolago) and the timber exploitation plan; Selection of 2 species(Mara & Cedro) and the re-planting plan; and Plans for forest roads and timber transportation																								
4. Forest Protection Plan																								
5. Suggestions on the organization of maintenance and operation																								
6. COUNTERPART AGENCY Ministerio de Asuntos Campesinos y Agropecuarios, y Centro de Desarrollo Forestal		4. CONDITIONS AND DEVELOPMENT IMPACTS The Management Plan takes into account the following guidelines: 1. The Plan conforms to the National Forest Law of Bolivia. 2. The plan aims to exploit forest resources in a sustainable manner and to protect valuable forest fauna and flora, by demarcating the areas for production and those for protection. 3. Timber exploitation is limited to high trees, and employs the selective felling method of individual trees. 4. After selective felling, the area will be re-planted with the selected tree species, in order to sustain the forest resources. 5. Protection Areas will be left to nature without human intervention. 6. Pastures will continue to be used as grazing land. 7. Concerning the protection of rare forest fauna and flora, the Plan will indicate guidelines for its planning and implementation. 8. Following the guidelines above, the Plan aims to sustain the natural forest production by employing the selective felling and the replanting to ensure natural regeneration, and thereby to preserve the approximately natural forest ecosystem and to sustain and nurture the forest resources.			2. MAJOR REASONS FOR PRESENT STATUS Under the present circumstances, it is not necessary to implement immediately the project in this study area. (FY1992 Overseas Survey) Lack of local funds.																			
7. OBJECTIVES OF STUDY Forest Resources Survey and Formulation of a Forest Management plan compatible with the Environment.																								
8. DATE OF SAW 1989/9																								
9. CONSULTANT(S) Japan Forost Technical Association																								
10. STUDY TEAM No. of Members 15 Period Feb.1990-Mar.1992(13 months) <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">92.94</td> <td style="text-align: center;">48.56</td> <td style="text-align: center;">44.38</td> </tr> </table>		Total M/M	Japan	Field	92.94	48.56	44.38				3. PRINCIPAL SOURCE OF INFORMATION ①, ② Centro de Desarrollo Forestal													
Total M/M	Japan	Field																						
92.94	48.56	44.38																						
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Aerial Photography; Wild Fauna Survey Vegetation Survey																								
12. EXPENDITURE <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">329,671 (¥000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">354,168</td> </tr> </table>		Total	329,671 (¥000)	Contracted	354,168	5. TECHNICAL TRANSFER On the job Training, technology transfer seminar, and training of Bolivia personnel in Japan.																		
Total	329,671 (¥000)																							
Contracted	354,168																							

名称 森林資源管理計画

[M/P, Basic Study, Other]

PROJECT SUMMARY (M/P)

Compiled Mar.1993
Revised Mar.1996

CSA BOL/S 101/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1. COUNTRY	Bolivia	1. SITE OR AREA	Bolivia : Total railway length about 3,600km			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued					
2. NAME OF STUDY	Modernization and Rehabilitation of Bolivian National Railways	2. PROJECT COST	(US\$1,000)	Total Cost	Local Cost	Foreign Cost	(Description) The master plan should be implemented as early as possible, since its implementation is considered significant from the standpoint of national economy. As for the urgent projects, it is necessary to draw up an optimum plan by comparing various alternative plans through feasibility studies and the like. It is also necessary to promote railway reinforcement in terms of both hardware and software. In connection with this project, the "Railway Improvement between Oruro and Cochabamba (Topographical map preparation)" was officially announced in March 1993 as a project to be undertaken by JICA. A F/S is supposed to start after the completion of the topographical maps. (FY1992 Overseas Survey) The M/P is being executed by ENFE according to the possible economic resources. The maintenance of the whole railway line is kept up in several sections the track has been improved. Four new stations have been constructed. The repair of locomotive engines and equipment of workshops are being carried on. The F/S on the economic side for the Aiquile-Santa Cruz branch line has been already elaborated. (FY1993 Overseas Survey) The survey work to make a repair plan for the section between Aguas-Calientes Station and Iipa-Iipa Station along the line connecting Oruro and Cochabamba is implementing by JICA. Bolivian National Railways wishes to make a Master Plan including construction of railway network connecting Aiquile and Santa Cruz. (FY1994 Domestic Survey) The F/S has been undertaken concerning the railway improvement plan between Oruro and Cochabamba. (FY1995 Domestic Survey) "Railway Improvement Plan between Oruro and Cochabamba (F/S)" is now implementing and is willing to submit the final report on Oct., 1995. Major points of the planned improvement are the route change for about 13km which should be done urgently and the improvement of the railway for about 69km where many derailed accidents had been happened within a section between Aguas-Calientes - Iipa-Iipa with a distance of about 55km, the major disastrous segment. (FY1995 Overseas Survey) No particular progress.					
3. SECTOR	Transportation/Railway	US\$1-Bs. 3.2	1) 2)	1,456,000	234,000	1,222,000						
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S) Optimum railway network in 2020, and railway reinforcement plans by stage 1. Short-term plan (1991 - 2000) : Total investment, US\$720 million 1) Track improvement, 4 lines 2) Rolling stock reinforcement 3) Improvement of rolling stock workshops 4) Reinforcement of telecommunications network 2. Medium-term plan (2001 - 2010) : Total investment, US\$ 485 million 1) Track improvement, 2 lines 2) Rolling stock reinforcement 3) Improvement of rolling stock workshops 4) Reinforcement of telecommunications network 5) Computer utilization 6) New line construction, about 133km 3. Long-term plan (2011 - 2020) : Total investment, US\$ 251 million 1) Track improvement, 4 lines 2) Rolling stock reinforcement 3) Reinforcement of the railway training school										
5. TYPE OF STUDY	M/P											
6. COUNTERPART AGENCY	Bolivian National Railways	4. CONDITIONS AND DEVELOPMENT IMPACTS Recconditions: 1) Appropriate scale of investment is determined by taking into consideration the economy of Bolivia and the financial situation of ENFE; 2) Railway improvement stage plans are proposed to enhance the contribution of the railway to the social, economic, and physical development of Bolivia, and to ensure reliable, safe, and stable transportation for domestic and international mobility; 3) In order to establish the priority for railway modernization and rehabilitation, comprehensive examination is made on such factors as safety of transport, effects of investment, relevance for railway management and operation, degree of urgency, relative importance of the lines concerned, and efficiency and profitability of operation. Development impacts: 1) Safe, stable, and efficient transportation 2) Contribution to economic development of Bolivia										
7. OBJECTIVES OF STUDY	Draw-up a Master plan and Plan of stage on modernization of the Bolivian National Railways											
8. DATE OF S/W	1989/10	10. STUDY TEAM No. of Members 11 Period Mar.1990-Nov.1991 (21 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;">67.13</td> <td style="text-align: center;">30.60</td> <td style="text-align: center;">36.53</td> </tr> </table>					Total M/M	Japan	Field	67.13	30.60	36.53
Total M/M	Japan						Field					
67.13	30.60	36.53										
9. CONSULTANT(S)	Japan Railway Technical Service Japan Transportation Consultants, Inc.	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY None										
12. EXPENDITURE	Total 255,739 (¥000) Contracted 237,000											
		5. TECHNICAL TRANSFER			3. PRINCIPAL SOURCE OF INFORMATION							
		1) Guidance on each field of technology during the detailed presentation of the reports (Esp. train operation planning and track maintenance) 2) Counterpart training (2 persons) on railway management conducted in			①, ② Bolivian National Railways							

和名 鉄道網整備計画

[M/P, Basic Study, Other]

PROJECT SUMMARY (M/P+F/S)

Compiled Mar. 1995
Revised Mar. 1996

CSA BOL/S 212/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																								
1. COUNTRY Bolivia		1. SITE OR AREA Basin of the Choqueyapu River (535km ²)		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 Control of Water Contamination of the Rivers in the City of Lapaz		2. PROJECT COST (US\$1,000)																										
		<table style="width: 100%; border: none;"> <tr> <td style="border: none;">M/P 1)</td> <td style="border: none;">46,030</td> <td style="border: none;">Local Cost</td> <td style="border: none;">Foreign Cost</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">2)</td> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">(US\$1,000) FS 1)</td> <td style="border: none;">19,660</td> <td style="border: none;"></td> <td style="border: none;">17,470</td> <td style="border: none;">2,180</td> </tr> <tr> <td style="border: none;">2)</td> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">3)</td> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;"></td> </tr> </table>				M/P 1)	46,030	Local Cost	Foreign Cost		2)					(US\$1,000) FS 1)	19,660		17,470	2,180	2)					3)		
M/P 1)	46,030	Local Cost	Foreign Cost																									
2)																												
(US\$1,000) FS 1)	19,660		17,470	2,180																								
2)																												
3)																												
3. SECTOR Administration/Environmental Problems		3. CONTENTS OF MAJOR PROJECT(S)		(Description) (FY1994 Domestic Survey) In order to implement the project, it is required to arrange budget enough to maintain the facilities. At present it seems not to be promoted from the standpoint of cost/benefit. (FY1995 Domestic Survey) No additional information. (FY1995 Overseas Survey) The regulations regarding to the quality of residual water drained into river have been proclaimed. No other particular progress.																								
4. REFERENCE NO.		-Intake of the Choqueyapu river water at the downstream of city center -Transmission of the river water -Construction of oxidation ponds at Ipirari																										
5. TYPE OF STUDY M/P+F/S																												
6. COUNTERPART AGENCY HAM, SAMAPA																												
7. OBJECTIVES OF STUDY To draw up the basic plan of the measures to protect the water contamination, and the F/S of the project with high priority.																												
8. DATE OF S/W 1991/2																												
9. CONSULTANT(S) Pacific Consultants International		Imp. Period: 1993. -2010.																										
		<table style="width: 100%; border: none;"> <tr> <td style="border: none;">4. FEASIBILITY AND ITS ASSUMPTIONS</td> <td style="border: none;">Feasibility: Yes/No</td> <td style="border: none;">EIRR1) EIRR2) EIRR3)</td> <td style="border: none;">FIRR1) FIRR2) FIRR3)</td> </tr> </table>				4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)																			
4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)																									
10. STUDY TEAM No. of Members 9 Period Feb. 1992-May. 1993 (16 months) <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Total M/M</td> <td style="border: none;">Japan</td> <td style="border: none;">Field</td> </tr> <tr> <td style="border: none;">56.12</td> <td style="border: none;">22.86</td> <td style="border: none;">33.26</td> </tr> </table>		Total M/M	Japan			Field	56.12	22.86	33.26	Conditions and Development Impacts: EIRR was not calculated because effects of water quality improvement can not be quantified economically. Although the project may not be economically, the project has been recommended to be implemented as a basic requirement for improvement of living environment.																		
Total M/M	Japan	Field																										
56.12	22.86	33.26																										
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY -Water quality Analysis -Topo Survey -Soil Survey		2. MAJOR REASONS FOR PRESENT STATUS They seemed to expect that special methods to improve water pollution not by sewerage system would be proposed by The JICA Study.																										
12. EXPENDITURE Total 265,074 (¥'000) Contracted 219,384		5. TECHNICAL TRANSFER (Training in Japan 1 person)																										
		3. PRINCIPAL SOURCE OF INFORMATION ① カウンターパートよりの聞き取り、②、③																										

和名 ラパス市水質汚濁対策計画調査

PROJECT SUMMARY (M/P)

Compiled Mar. 1988
Revised Mar. 1996

CSA BRA/S 101/75

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDY RESULTS							
1. COUNTRY	Brazil	1. SITE OR AREA	Belo Horizonte-Itutinga-Sao Paulo; and Itutinga-Volta Redonda			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2. NAME OF STUDY	Plano de construçao da nova ligacão ferroviária	2. PROJECT COST	(US\$1,000)	1)	890	(Description) At the international bidding held in 1976, the award went to a U.K. firm. The lack of funds, however, caused a long delay of construction. According to the IRJ (International Railway Journal) of August 1989, only a 320km single-track line connecting Jeceaba near Belo Horizonte and Barra Mansa near Rio de Janeiro was reportedly constructed out of the proposed 900km of double-track electrified line linking Belo Horizonte to Rio de Janeiro and Sao Paulo. The railway is powered by diesel instead of electricity. The railway has been in operation since 1989. (FY1995 Domestic Survey) No additional information.							
3. SECTOR	Transportation/Railway		(US\$1=9.07Cr.)	2)									
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)											
5. TYPE OF STUDY	M/P	Plan for constructing a new electrified railway line: the first phase, a 389km-section between Belo Horizonte and Volta Redonda; and the second phase, a 432km-section between Itutinga and Sao Paulo. The features of the first phase are: operation and rolling stock: max. speed of 60km/h; 9,000-ton hauling capacity per train; 18 trains per day in each direction when opened to traffic; and 105 in 2002. Structures and track: 171 tunnels, 86.9km; 124 bridges, 40.5km; track, broad gauge. Electrification: 2 x 25kv, AT feeding system. Signalling and operation control: Automatic blocking, CTC											
6. COUNTERPART AGENCY	REFEPA, and EKEFER	4. CONDITIONS AND DEVELOPMENT IMPACTS											
7. OBJECTIVES OF STUDY	Plan for the construction of a new electrified railway line to carry iron ores	The transport capacity available is unable to meet increasing demands to carry iron ores produced in and around Belo Horizonte, Minas Gerais. It is expected that a planned new electrified railway line will help ensure the required capacity to transport iron ores to steel mills in Volta Redonda and San Paulo, and also promote the export to other countries from Sepetiba port.											
8. DATE OF S/W	1975/3	10. STUDY TEAM											
9. CONSULTANT(S)	The Japan Electrical Consulting Co., Ltd. Pacific Consultants International	No. of Members 15 Period May. 1975-Dec. 1975 (7 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;">83.00</td> <td style="text-align: center;">50.00</td> <td style="text-align: center;">33.00</td> </tr> </table>						Total M/M	Japan	Field	83.00	50.00	33.00
Total M/M	Japan	Field											
83.00	50.00	33.00											
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	5. TECHNICAL TRANSFER											
12. EXPENDITURE	Total 58,231 (¥000) Contracted	OPR on railway technologies to counterparts (train operation planning, tracks, electrification, signalling and telecommunications, and rolling stock, and earth conductivity testing).											
		3. PRINCIPAL SOURCE OF INFORMATION											
		①, ②											
		2. MAJOR REASONS FOR PRESENT STATUS											

和名 鉄道新線建設計画

(M/P, Basic Study, Other)

PROJECT SUMMARY (F/S)

Compiled Mar.1986
Revised Mar.1996

CSA BRA/S 301/77

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Brazil	1.SITE OR AREA	The State of Espirito Santo			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Praia Mole Port Construction Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) Based on the proposals of the JICA study, OPEC pledged a loan of about US\$100 million for the construction of Praia Mole Port. However, at the 2nd Brazil-Japan Ministerial Meeting held in August 1979, the Brazilian Government requested that the loan be used for the construction of Tubalao Port, and the request was accepted. The loan agreement (11,950 million yen) was duly signed in Dec. 1981. (FY1991 Overseas Survey) The Brazilian Government realizes that the construction of Praia Mole Port will be necessary in the future, but that it will be implemented by the private sector participation in accordance with the policy of privatization. (FY1994 Domestic Survey) No additional information.	
3.SECTOR	Transportation/Port	(US\$1,000)	1) 374,296	2) 311,722	3)		
4.REFERENCE NO.		3.CONTENT(S) OF MAJOR PROJECT(S)	The construction of a seaport, Praia Mole was planned about 600 km north of Rio de Janeiro Port.				
5.TYPE OF STUDY	F/S	Breakwater	7,100m				
6.COUNTERPART AGENCY	FORTOPRAS	Timber Berth	90cm				
7.OBJECTIVES OF STUDY	To study the feasibility on Praia Mole port construction project	Coal Berth	590cm				
8.DATE OF S/W	1976/11	Oil Berth	1set				
9.CONSULTANT(S)	Overseas Coastal Area Development Institute	Small Size Ship Berth	150cm				
10.STUDY TEAM	No. of Members 9 Period Oct.1976-Aug.1977(12 months)	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	ERR1) 18.30 ERR2) ERR3)	HRR1) 6.50 HRR2) HRR3)	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts: Cargo volume is estimated taking into consideration such cargoes as half-completed products of and materials for the Tubarao steel factory. In the FIRM estimation, construction costs up to the second stage of the project are calculated. As a result it becomes clear that it would be necessary to receive government subsidies or to expect up to 20% of the actual port tariff revenues. By promoting the construction of public berths in the present port which has been developed for the exclusive use of the Tubarao steel factory, the new port would act as a commercial port producing more transportation and economic activities, thus improving the general quality of life in the region.					
12.EXPENDITURE	Total 88,730 (¥000) Contracted 67,013	5.TECHNICAL TRANSFER		Giving counterparts ports and harbours planning technic by On-Job-Training			
		2.MAJOR REASONS FOR PRESENT STATUS		Large impact			
		3.PRINCIPAL SOURCE OF INFORMATION		①, ②, ④			

PROJECT SUMMARY (M/P)

Compiled Mar. 1986
Revised Mar. 1996

CSA BRA/S 102/79

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS					
1. COUNTRY	Brazil	1. SITE OR AREA	The Cerrado Area of half a million square kilometers in the states of Minas Gerais and Goiás.						
2. NAME OF STUDY	Regional Development of the Three States: Espírito Santo, Minas Gerais and Goiás	2. PROJECT COST							
3. SECTOR	Development Plan/Integrated Regional Development Plan	(US\$1,000)	Total Cost	Local Cost	Foreign Cost				
4. REFERENCE NO.		US\$1-Cr\$20	1)	1,328,000					
5. TYPE OF STUDY	M/P		2)						
6. COUNTERPART AGENCY	Committee of Three States	3. CONTENTS OF MAJOR PROJECT(S)		(Description) Based on the findings of the study, the improvement and development of inland transportation facilities and the port facilities are under way in order to facilitate the agricultural development in the central region. For instance, the production of soybean in Brazil reached 20 million tons in 1989, and the contribution to be increase of the Cerrado Area has been growing. As of August 1990, the staff of Rio Dose is following up the improvement of the export corridor to transport soybean and other agricultural products to Vitória Port. (FY 1991 Overseas Survey) No additional information. (FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information.					
7. OBJECTIVES OF STUDY	Identification of export crop development potentials and of a related surface transportation system	The study proposed a transportation system for exporting crops grown in inland areas. The major components are as follows. Railway: - Anápolis - Vitória 1,819km (some section to be newly constructed) - Pirapora - Vitória 1,111km (some section to be newly constructed) - Lengthening(490m) of crossing tracks at stations, installation of new train-crossing stations, and modernization of the train blocking system. Road: Construction of new feeder roads of 49,000km (1977-85 23,000km, 1985-90 26,000km) Port: - Expansion of port-head silos at Port Caputuba - Installation of additional belt conveyers Storage: - Production-area warehouses(9.83 million tons) - silos excluding port-head silos (1.05 million tons) - Distribution-warehouses(1.92 million tons)							
8. DATE OF SAV	1978/5	4. CONDITIONS AND DEVELOPMENT IMPACTS							
9. CONSULTANT(S)	International Development Center of Japan	The Cerrado area lying in the central region of Brazil is one of the important agricultural frontiers of the country. The study identified soybean, maize and sorghum as suitable crops for the area, when appropriate efforts are made to improve the soil productivity. Among others, by the improvement of transportation and marketing networks, the production of the grains in the Area A (the Triângulo Mineiro and the southern part of Goiás State) and the Area B (the area around Pirapora along the upper streams of Sao Francisco River) are estimated to reach the following levels by 1990. Area A 5.81 million ha 12.6 million tons Area B 0.94 2.0 Major development impacts: 1) Decentralization of economic activities 2) Development of agricultural frontiers (the Cerrado area) 3) Improvement of international balance of payments 4) Contribution of global food supply							
10. STUDY TEAM	No. of Members 11 Period Jul. 1978-Jul. 1979 (12 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;">44.83</td> <td style="text-align: center;">16.33</td> <td style="text-align: center;">28.50</td> </tr> </table>	Total M/M	Japan	Field	44.83	16.33	28.50	2. MAJOR REASONS FOR PRESENT STATUS	
Total M/M	Japan	Field							
44.83	16.33	28.50							
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	5. TECHNICAL TRANSFER		3. PRINCIPAL SOURCE OF INFORMATION					
12. EXPENDITURE	Total 121,760 (¥000) Contracted 116,542	Two counterparts participated in the JICA training program. On-the-job training through the joint undertaking of the study to identify and evaluate agricultural potentials in the Cerrado area.		①, ②					

PROJECT SUMMARY (M/P)

Compiled Mar. 1988
Revised Mar. 1996

CSA BRA/S 103/80

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
1. COUNTRY	Brazil	1. SITE OR AREA				1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2. NAME OF STUDY	Establishment of the Fire Fighting Training Center in Brasilia D.F.	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description)	
3. SECTOR	Social Infrastructure/Architecture & Housing	(US\$1,000)	1)				
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	In preparation for the establishment of the Fire-Fighting Training Center in Brasilia, the basic design of the facilities and a manual for training programs are to be compiled. - Basic design of the facilities: Site: 500m x 500m training Bldg., Indoor Training Ground, Fire-Fighting Training Bldg. for fires caused by oil, Outdoor Fire-Fighting Training Ground, Water Storage Tank, Diving Pool, Auditorium, Outdoor Circuit Training Ground and research facilities - Training program & manual for training methods			(FY1991 Overseas Survey) The Training Center was inaugurated in 1985, and the training of fire fighting squads commenced in 1986, utilizing the curriculum suggested by the JICA study. By 1991, the Center graduated 536 professional firemen. During the period of 1987 - 1991, JICA sponsored the third-country training program, inviting a total of 125 trainees from other Latin American countries and Portuguese-speaking African countries. The training courses have been highly acclaimed by the participants, especially with respect to its primary emphasis on preparedness rather than fire-fighting techniques and its safety precaution during the training sessions. (FY1995 Domestic Survey) No additional information.	
5. TYPE OF STUDY	M/P						
6. COUNTERPART AGENCY	Fire Headquarters of Federal District (CBDF)	7. OBJECTIVES OF STUDY	4. CONDITIONS AND DEVELOPMENT IMPACTS			2. MAJOR REASONS FOR PRESENT STATUS	
8. DATE OF S/W	1979/10	Study and training for fire-fighting activities					
9. CONSULTANT(S)	Hikken Sokkel Ltd.	10. STUDY TEAM	The projected development impacts are the enhancement of educational training in fire-fighting and rescuing activities for newly-appointed firemen and fire officers in the education training facilities and the promotion of studies in the investigation of causes of fire in the research facilities, the combined effects of which will result in the modernization of fire fighting activities in Brasilia. The scope of technical cooperation is as follows: 1) Preparation of basic designs of educational and training facilities 2) Preparation of basic designs of research facilities 3) Recommendation and advice for establishment of educational and training programs 4) Recommendation and advice for establishment of research programs, procurement of necessary materials and equipment to the site, and acceptance of Brazilian trainees			High priority	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	None	No. of Members 21 Period Nov. 1980-Mar. 1981 (5 months)					
12. EXPENDITURE			5. TECHNICAL TRANSFER			3. PRINCIPAL SOURCE OF INFORMATION	
Total	72,456 (¥000)						
Contracted	40,791		1) Accepting trainees 2) Providing materials and equipment as well as guidance			①, ②	

和名 消防訓練センター建設計画

PROJECT SUMMARY (M/P+F/S)

Compiled Mar. 1990
Revised Mar. 1996

CSA BRA/S 201B/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																																														
1. COUNTRY	Brazil	1. SITE OR AREA	<p><M/P> Itajai river basin with a catchment area of 15,220 sq.km <F/S> Blumenau-Gaspar river stretch located at 70km upstream from the river mouth</p> <p>2. PROJECT COST</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">M/P 1)</td> <td style="width: 20%;">300,000 Local</td> <td style="width: 20%;">Foreign</td> <td style="width: 30%;"></td> </tr> <tr> <td></td> <td>2)</td> <td>Cost</td> <td>Cost</td> <td></td> </tr> <tr> <td></td> <td>(US\$1,000)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>(US\$1=50Cz)</td> <td>I/S 1)</td> <td>65,000</td> <td></td> </tr> <tr> <td></td> <td></td> <td>2)</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>3)</td> <td></td> <td></td> </tr> </table>				M/P 1)	300,000 Local	Foreign			2)	Cost	Cost			(US\$1,000)					(US\$1=50Cz)	I/S 1)	65,000				2)					3)																	
	M/P 1)	300,000 Local				Foreign																																												
	2)	Cost	Cost																																															
	(US\$1,000)																																																	
	(US\$1=50Cz)	I/S 1)	65,000																																															
		2)																																																
		3)																																																
2. NAME OF STUDY	Itajai River Basin Flood Control Project	2. PROJECT COST	<p>3. CONTENTS OF MAJOR PROJECTS)</p> <p><M/P> River improvement of 93km out of the total river course of 250km, in order to protect urban centers along the river.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Provisional plan</td> <td style="width: 15%;">Mid-term plan</td> <td style="width: 15%;">Long-term plan</td> <td style="width: 40%;"></td> </tr> <tr> <td>Preiming Project</td> <td>10-year</td> <td>25-year</td> <td>50-year</td> <td></td> </tr> <tr> <td>River Improvement</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>- Blumenau-Gaspar stretch</td> <td>24.5km (E)</td> <td>24.5km (E)</td> <td>24.5km (E)</td> <td></td> </tr> <tr> <td>- Floodway and downstream of Itajai Mirim</td> <td>14.5km</td> <td>14.5km (E)</td> <td>14.5km (E)</td> <td></td> </tr> <tr> <td>- Rio do Sul-Irontras and Ituporanga stretches</td> <td>17.4km (E)</td> <td>17.4km (E)</td> <td>17.4km (E)</td> <td></td> </tr> <tr> <td>- Brusque stretch</td> <td>9.0km (E)</td> <td>9.0km (E)</td> <td>9.0km (E)</td> <td></td> </tr> <tr> <td>- Ilhota stretch</td> <td>---</td> <td>---</td> <td>3.7km (E)</td> <td></td> </tr> <tr> <td>- Ascurra stretch</td> <td>---</td> <td>---</td> <td>4.0km (E)</td> <td></td> </tr> </table> <p>Note: "E" means enlargement of channel.</p> <p><F/S> River improvement by river channel widening and river dredging, and urban drainage works were proposed in the following area: - River improvement for main Itajai river (32km) and major tributaries (18km in total) - Urban drainage in Blumenau (drainage area; 19,24sq.km)</p>				Provisional plan	Mid-term plan	Long-term plan		Preiming Project	10-year	25-year	50-year		River Improvement					- Blumenau-Gaspar stretch	24.5km (E)	24.5km (E)	24.5km (E)		- Floodway and downstream of Itajai Mirim	14.5km	14.5km (E)	14.5km (E)		- Rio do Sul-Irontras and Ituporanga stretches	17.4km (E)	17.4km (E)	17.4km (E)		- Brusque stretch	9.0km (E)	9.0km (E)	9.0km (E)		- Ilhota stretch	---	---	3.7km (E)		- Ascurra stretch	---	---	4.0km (E)	
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- Rio do Sul-Irontras and Ituporanga stretches	17.4km (E)	17.4km (E)	17.4km (E)																																															
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3. SECTOR	Social Infrastructure/River & Erosion Control	3. CONTENTS OF MAJOR PROJECTS)	<p>4. FEASIBILITY AND ITS ASSUMPTIONS</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">EIRR1</td> <td style="width: 15%;">12.70</td> <td style="width: 15%;">FIRR1</td> </tr> <tr> <td></td> <td>Yes</td> <td>EIRR2)</td> <td>---</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td></td> <td>EIRR3)</td> <td>---</td> <td>FIRR3)</td> </tr> </table>				Feasibility:	EIRR1	12.70	FIRR1		Yes	EIRR2)	---	FIRR2)			EIRR3)	---	FIRR3)																														
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	Yes	EIRR2)	---	FIRR2)																																														
		EIRR3)	---	FIRR3)																																														
4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS	<p>Conditions and Development Impacts:</p> <p><M/P> Protection level against flood will rise to 50 year probability from the current level of less than 2-year probability due to the implementation of the proposed project. The proposed projects will be developed by applying the stages-wise method with the provisional, mid-term and long-term plans until the year of 2005.</p> <p><F/S> - Project benefit is assumed to be annual mean flood damage to be mitigated by the proposed project. - Flood protection level will be rise up to 10-year probability by provisional plan and 50-year probability by long-term plan.</p>																																															
5. TYPE OF STUDY	M/P+F/S	5. TECHNICAL TRANSFER				<p>3. PRINCIPAL SOURCE OF INFORMATION</p> <p>①, ②</p>																																												
6. COUNTERPART AGENCY	Secretaria de Desenvolvimento Regional	5. TECHNICAL TRANSFER	<p>2. MAJOR REASONS FOR PRESENT STATUS</p>																																															
7. OBJECTIVES OF STUDY	Feasibility study on the river improvement project in Blumenau-Gaspar stretch	5. TECHNICAL TRANSFER				<p>(FY1991 Overseas Survey) The project proposed by the JICA study was assigned high priority in the national development strategy, and its urgency continues to be high. SOR is hoping for similar Japanese technical assistance on other river basins.</p> <p>(FY1993 Domestic Survey) As of 1994, the Itajai river has managed by the provincial government, including the flood control. <M/P> Presently, the proposed projects in the Itajai river basin managed by the provincial government. <F/S></p> <p>(FY1994 Domestic Survey) The Santa Catarina provincial government has been expecting the financial assistance by the Gov't of Japan, and examining the request to the Gov't of Japan taking into account the domestic economic and political situations.</p> <p>(FY1995 Domestic Survey) No additional information.</p>																																												
8. DATE OF SAV	1985/12	5. TECHNICAL TRANSFER	<p>3. PRINCIPAL SOURCE OF INFORMATION</p> <p>①, ②</p>																																															
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Pacific Consultants International	5. TECHNICAL TRANSFER				<p>2. MAJOR REASONS FOR PRESENT STATUS</p>																																												
10. STUDY TEAM	No. of Members 14 Period Apr. 1986-Jan. 1988 (22 months)	5. TECHNICAL TRANSFER	<p>2. MAJOR REASONS FOR PRESENT STATUS</p>																																															
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Site Survey, Inspection of the Results of Topographic Survey Works	5. TECHNICAL TRANSFER				<p>2. MAJOR REASONS FOR PRESENT STATUS</p>																																												
12. EXPENDITURE	Total 359,012 (¥000) Contracted 340,694	5. TECHNICAL TRANSFER	<p>2. MAJOR REASONS FOR PRESENT STATUS</p>																																															

和名 イタジイ河流域治水計画

PROJECT SUMMARY (F/S)

Compiled Mar. 1991
Revised Mar. 1996

CSA BRA/S 302/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Brazil	1. SITE OR AREA				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 Flood Control Project in the Lower Itajai River Basin		Lower Itajai river basin with catchment are of 601sq.km and population of 147,000					
3. SECTOR Social Infrastructure/River & Erosion Control		2. PROJECT COST				(Description) (FY1991 Overseas Survey) The project implementation is somewhat delayed owing to the on-going reorganization of the Federal Government. The priority of the project remains high and the urgent need of implementation is recognized. The Government is working on the budget allocation to facilitate the implementation. (FY1994 Domestic Survey) The Santa Catarina provincial government has been expecting the financial assistance by the Gov't of Japan, and examining the request to the Gov't of Japan taking into account the domestic economic and political situations. (FY1995 Domestic Survey) No additional information.	
4. REFERENCE NO.		1) Total Cost 130,050 Local Cost 62,648 Foreign Cost 67,402 2) (US\$1,000) 3)					
5. TYPE OF STUDY F/S		3. CONTENTS OF MAJOR PROJECT(S)					
6. COUNTERPART AGENCY Ministerio da agricultura, departamento nacional de obras de saneament		1. Construction of floodway (9km in length, design flood of 1230cu.m/s) 2. River improvement work in Itajai river (23km in length, design flood of 2770cu.m/s) 3. River improvement work in Itajai Mirim river (8km in length, design flood of 65cu.m/s) 4. Improvement work of existing short-cut channel (4km in length, design flood of 670cu.m/s) 5. Urban drainage works (construction of regulating ponds, pump stations, etc.)					
7. OBJECTIVES OF STUDY To carry out feasibility study on flood control project in lower Itajai River basin		8. DATE OF S/W 1988/7					
9. CONSULTANT(S) Nippon Koei Co., Ltd. Pacific Consultants International		Imp. Period: 1994. -1998.					
10. STUDY TEAM No. of Members 12 Period Oct. 1988-Mar. 1990 (18 months) Total M/M Japan Field 65.00 24.00 41.00		4. FEASIBILITY AND ITS ASSUMPTIONS					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY -Topographic Survey in lower Itajai River basin - Geo-Technical Investigation in lower Itajai River basin		Feasibility: EIRR1) 7.10 EIRR2) EIRR3) Yes EIRR1) EIRR2) EIRR3)					
12. EXPENDITURE Total 304,002 (¥000) Contracted 288,866		Conditions and Development Impacts: Conditions: 1. Land compensation for proposed floodway route area 2. Obtaining of agreement from municipality of Novevantes regarding construction of floodway Development Impacts: 1. Stabilization of livelihood in flood protection area 2. Enhancement of land use in flood protection area 3. Increase in job opportunity and activation of regional economy				2. MAJOR REASONS FOR PRESENT STATUS Shortage of budget (6WDS was going to implement the project with OECF's fund in Japan just after completion of F/S, but it is not likely to be financed with the fund in near future. Further, it is reported that at present ENDS is subject to severe shortage of budget, which results in insufficient O & M of completed works.	
		5. TECHNICAL TRANSFER Technical knowledge was transferred to counterpart personal regarding survey procedure, data analysis and planning procedure throughout field works				3. PRINCIPAL SOURCE OF INFORMATION ①, ②	

和名 イタジャイ河下流域治水計画

PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1992
Revised Mar.1996

CSA BRA/S 202B/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																			
1. COUNTRY Brazil		1. SITE OR AREA		1. PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																			
2. NAME OF STUDY Disaster Prevention and Restoration Project in Serra Do Mar, Cubatao Region		Serra Do Mar, Cubatao Region (252 sq.km) in the State of Sao Paulo																					
3. SECTOR Social Infrastructure/River & Erosion Control		2. PROJECT COST		(Description) 1) Brazilian Government is considering the possibility of financing from either the World Bank or Japanese Government for the implementation of the Sediment Run-off Prevention Plan. 2) The Government is planning to implement the Moji River Improvement with its own funds. (FY1991 Overseas Survey) «M/P» Efforts are being made to implement the findings of the H/B by Secretaria de Meio Ambiente (SMA) and relevant task forces. «F/S» The project has been assigned high priority, but the financial arrangement for its implementation is being delayed owing to political and administrative reasons. (FY1994 Domestic Survey)/(FY1995 Domestic Survey) No additional information																			
4. REFERENCE NO.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">M/P 1)</td> <td style="width: 20%;">75,000 Local</td> <td style="width: 20%;">38,500 Foreign</td> <td style="width: 45%;">36,500</td> </tr> <tr> <td>2)</td> <td>65,900 Cost</td> <td>28,900 Cost</td> <td>37,000</td> </tr> <tr> <td>F/S 1)</td> <td>25,700</td> <td>13,400</td> <td>12,300</td> </tr> <tr> <td>2)</td> <td>11,400</td> <td>5,100</td> <td>6,300</td> </tr> <tr> <td>3)</td> <td>1,300</td> <td>500</td> <td>800</td> </tr> </table>				M/P 1)	75,000 Local	38,500 Foreign	36,500	2)	65,900 Cost	28,900 Cost	37,000	F/S 1)	25,700	13,400	12,300	2)	11,400	5,100	6,300	3)	1,300
M/P 1)	75,000 Local	38,500 Foreign	36,500																				
2)	65,900 Cost	28,900 Cost	37,000																				
F/S 1)	25,700	13,400	12,300																				
2)	11,400	5,100	6,300																				
3)	1,300	500	800																				
5. TYPE OF STUDY M/P+F/S		3. CONTENTS OF MAJOR PROJECT(S)																					
6. COUNTERPART AGENCY Secretaria de Meio Ambiente (SMA), Instituto de Pesquisas Tecnológicas do Estado de Sao Paulo (IPT), and others (CETESB, DAEE, IBR).		«M/P» 1) Sediment Run-off Prevention Plan... 32 sabo dams, 11 channel works with total length of 5.7 km. 2) Flood Prevention Plan 1. Cubatao River Improvement... discharge tunnel 600m * 2, river improvement 6.7km. 2. Moji River Improvement... river improvement 9.5m 3) Forest Restoration Plan... 20,000 seedlings plant in 20 replantation areas. (target year 2000) 4) Non-structural Measures... hazard maps, etc.																					
7. OBJECTIVES OF STUDY 1) To formulate a master plan to the year 2000 and to select priority projects. 2) To conduct feasibility study on priority projects by year 1995.		«F/S» 1) Sediments Run-off Prevention Plan... 9 sabo dams, designed for the probable sediment discharge of about a 25-year return period, which is approximately equal to the post maximum discharge of 1985. Six (6) channel works including ground (downstream from sabo damsite with a length of about 3km in total) 2) Moji River Improvement Plan... river/improvement of 4.5km for 10-year probable flood 3) Forest restoration plan... 20,000 seedlings (height 0.4-1.0m)																					
8. DATE OF SAW 1989/6		Imp. Period: 1991. -1995.																					
9. CONSULTANT(S) Nippon Koei Co., Ltd. Nikken Consultants., Inc.		4. FEASIBILITY AND ITS ASSUMPTIONS																					
10. STUDY TEAM		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Feasibility:</td> <td style="width: 20%;">FIRR1) 18.20</td> <td style="width: 20%;">FIRR1)</td> <td style="width: 45%;"></td> </tr> <tr> <td>Yes</td> <td>FIRR2) 11.10</td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td>FIRR3)</td> <td>FIRR3)</td> <td></td> </tr> </table>		Feasibility:	FIRR1) 18.20	FIRR1)		Yes	FIRR2) 11.10	FIRR2)			FIRR3)	FIRR3)									
Feasibility:	FIRR1) 18.20	FIRR1)																					
Yes	FIRR2) 11.10	FIRR2)																					
	FIRR3)	FIRR3)																					
No. of Members 11 Period Nov.1989-Jan.1991 (15 months) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td style="text-align: center;">64.19</td> <td style="text-align: center;">13.13</td> <td style="text-align: center;">51.06</td> </tr> </table>		Total M/M	Japan	Field	64.19	13.13	51.06	Conditions and Development Impacts: «M/P» 1) Sediment Run-off Prevention Plan The plan was formulated on the assumption that present vegetation condition will not be improved by year 2000. The plan identified 12 Sabo subbasins as protection area with design scale of a 100 year return period. 2) Flood Prevention Plan The plan was formulated on the basis of urban area and industrial establishments, with a design scale of a 50-year return period for mainstreams of the Cubatao and Moji rivers, and a 25-year return period for their tributaries. «F/S» Priority projects aiming at the target year to 1995 was selected in view of economic viability (EIRR) as well as unmeasurable social impacts and intangible damages which would be induced from sediment run-off disasters.		2. MAJOR REASONS FOR PRESENT STATUS													
Total M/M	Japan	Field																					
64.19	13.13	51.06																					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY Topographic Survey, Core Boring and Logging Survey		5. TECHNICAL TRANSFER																					
12. EXPENDITURE		Over 130 Brazilian audience participated in the seminar at the submission of draft final report. Conducted on-the-job training with each Brazilian expertise, and held seminars and sessions when submitting study reports.		3. PRINCIPAL SOURCE OF INFORMATION																			
Total 303,183 (¥000) Contracted 271,359				①, ②																			

和名 クバト山地域海岸山脈災害防止復旧計画

PROJECT SUMMARY (M/P)

Compiled Mar.1992
Revised Mar.1996

CSA BRA/S 105/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDY RESULTS		
1. COUNTRY	Brazil	1. SITE OR AREA	Belem/Ananindeua			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued	
2. NAME OF STUDY Urban Transport in Belem		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	(Description) Para State and Belem Municipality are anxious to execute the feasibility study continuously. However, the Department of the Central Government as for the urban transport is not yet determined. The request for feasibility study has not arrived at the ABC, the window for technical cooperation. Because of the change of the Brazilian Central Government Administration, the Government policy for technical cooperation might change. However, no movements are observed until now. (FY1992 Overseas Survey) Waiting for the answer. (FY1994 Domestic Survey) The movement for implementation of the study is not yet realized, although the improvement of some road sections, that the M/P recommended, were carried out by the Local Government's own efforts. (FY1995 Domestic Survey) No additional information.	
3. SECTOR				(US\$1,000)	1) 390,500	2) 318,000		72,500
Transportation/Urban Transportation		3. CONTENTS OF MAJOR PROJECT(S)						
4. REFERENCE NO.				(1) Medium Term Plan(1990-2000) 1) Trunk Road Construction & Improvement: 12 projects, US\$180 million 2) Construction of Public Bus Facilities: 21 projects, US\$10 million 3) Improvement of Intersection, Road Width Widening, US\$1.5 million (2) Long term Plan (2001-2010) 1) Trunk Road Construction & Improvement: 10 projects, US\$160 million 2) Construction of Public Bus Facilities: 10 projects, US\$10 million 3) Traffic Administration Facility improvement: US\$6 million				
5. TYPE OF STUDY				M/P				
6. COUNTERPART AGENCY				(M/P) SEPLAN				
7. OBJECTIVES OF STUDY				Master plan study on urban transport				
8. DATE OF S/W				1989/4				
9. CONSULTANT(S)				Chodal Co., Ltd. Yachiyo Engineering Co., Ltd.				
10. STUDY TEAM				No. of Members 11 Period Oct.1989-Jun.1991(21 months) Total M/M Japan Field 76.04 10.04 66.00				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY				Conditions: Forecast of traffic demand is carried out using the framework of the future population size, industrial output, GDP, family income, future landuse of the cities of Belem and Ananindeua based on the person trip survey at 1990. Planning Policy: 1) Road network - improvement of trunk roads - improvement of feeder road network in suburban area 2) Public transport - trunk-feeder bus system introduction to increase public transport capacity 3) Traffic management - effective use of the current facilities Development Impacts - Reduction of V.O.C. - Reduction of travel time				
12. EXPENDITURE				Total 340,124 (¥000) Contracted 317,322				
		1. TECHNICAL TRANSFER		Showed the methodology and planning procedure for comprehensive urban transport planning and the held the small scale seminar to public.				
				2. MAJOR REASONS FOR PRESENT STATUS Political decision by the Central Government is not to retalie with urban transport matter, which is transferred to the local government responsibility.				
				3. PRINCIPAL SOURCE OF INFORMATION ①, ②				

和名 ベレム市都市交通計画

PROJECT SUMMARY (M/P)

Compiled Mar.1995

Revised Mar.1996

CSA BRA/S 305/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS		
1. COUNTRY	Brazil	1. SITE OR AREA	Guanabara bay(400 km ²) and its basin(4,000km ²)			
2. NAME OF STUDY	Recovery of the Guanabara Bay Ecosystem	2. PROJECT COST				(US\$1,000)
3. SECTOR	Administration/Environmental Problems	3. CONTENTS OF MAJOR PROJECT(S)		(Description) The Study Team recommended to FEEMA to implement the P/S for the countermeasure examination to reduce inflow load and stored load of the Eastern basin. FEEMA presented the planning form of P/S based on the recommendations in June, 1994 to ABC (Brazilian Cooperation Agency). ABC requested to JICA to implement the P/S planned by FEEMA in July, 1994. (FY1995 Domestic Survey) The Embassy of Japan for Brazil conveyed above-mentioned official request to the Ministry of Foreign Affairs of Japan. However, the Ministry is not take up this project as yet as the Ministry worries about some conflict with the Sewerage Project of IDB which is implementing at the eastern basin of the Guanabara Bay. Tokusai Kogyo Co., Ltd. have explained to JICA that there is no such a kind of problem about the conflict on the occasion of JICA's hearing held on May, 1995. On the other hand, the Local Government of Rio de Janeiro have requested to Japanese side to implement the project is an early stage.		
4. REFERENCE NO.		Eastern Basin: Primary STP + Tertiary STP + Joint TP for Sea-product processing factory				
5. TYPE OF STUDY	M/P	Northeastern Basin: Stabilization Pond, Land use control				
6. COUNTERPART AGENCY	FEEMA(Fundacao Estadual de Engenharia do Meio Ambiente)	Northwestern Basin: Primary STP + Stabilization Pond, Land use control, Joint TP for Petrochemical factories				
7. OBJECTIVES OF STUDY	To formulate a master plan for the water pollution control and the recuperation of Guanabara Bay's ecosystem.	Western Basin: Primary STP + Ocean outfall system, Imp. of Sanitary services in Favela				
8. DATE OF S/W	1991/10	4. CONDITIONS AND DEVELOPMENT IMPACTS				
9. CONSULTANT(S)		This study aims to present synthetic strategy for water pollution control and recuperation of ecosystem in Guanabara bay. Designing of waste water treatment facilities and the planning of socio-economical system are left for the P/S to be implemented from now on. When the countermeasures were applied, a large amount of socio-economical benefit like improvement of living environment, increase of marine products and securing of clean recreational areas will be obtained.				
10. STUDY TEAM	No. of Members 12 Period Mar.1992-Mar.1994(25 months)					
	Total M/M Japan Field 98.73 38.26 60.47					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY						
12. EXPENDITURE	Total 595,838 (V000) Contracted 285,551	5. TECHNICAL TRANSFER				
		Transferred survey and observation techniques for water area and computer simulation techniques for water pollution control.				
		1. PRESENT STATUS		<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
				2. MAJOR REASONS FOR PRESENT STATUS		
				3. PRINCIPAL SOURCE OF INFORMATION		
				①, ⑥ (FEEMA)		

和名 グナバラ湾水質汚濁防止計画調査

PROJECT SUMMARY (F/S)

Compiled Sep.1995
Revised Mar.1996

CSA BRA/S 306/94

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1. COUNTRY	Brazil	1. SITE/OR AREA	Upper reaches to lower reaches of the Parnaiba River (approx. 1,400m)			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	Navigation of the Parnaiba River Basin	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost		
3. SECTOR	Transportation/Port		1) 2) 3)			(Description) On March, 1995, when this survey work completed, it has been requested to implement the pilotage works, which was recommended by the survey report, before the commencement of full-scaled ship transportation. In order to implement the pilotage works, an organization for the ship-transportation along the Parnaiba River is going to be established. A VIP, who has been interested in this ship-transportation, has been elected and established a good connection with the Central Government. According to some information, he already got some of budget allocation for this project. However, more details are not available.	
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	Water level of the Parnaiba River changes 1.5 to 2.0m during the dry and the rainy season. The ship transportation in between upper reaches to Teresina during the rainy season and in between upper reaches to Floriano during the dry season are recommended respectively. In order to materialize this plan, as for the major works, the followings will be necessary. (1)Renovate the lock at Boa Esperanca. (2)Renovate the river ports (7 to 8 ports from Sta. Filomena in upper reaches to Teresina in middle reaches). (3)Shipbuilding (500TWR X 30 ships) (4)Arrange the beacons along the routes. (5)Establish the ship-transportation administrative office. (6)Arrange the pilotage system.				
5. TYPE OF STUDY	F/S	6. COUNTERPART AGENCY	Secretaria de Planejamento do Estado do Piaui (SEPLAN, ABC)				
7. OBJECTIVES OF STUDY	Investigate the possibility of ship transportation along the Parnaiba River	8. DATE OF S/W	Imp. Period: /				
9. CONSULTANT(S)	Pacific Consultants International	9. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) 12.00 EIRR2) EIRR3)	FIRR1) 10.00 FIRR2) FIRR3)		
10. STUDY TEAM	No. of Members 11 Period Dec.1992-Mar.1995 (28 months) Total M/M Japan Field 53.01 23.30 29.71	Conditions and Development Impacts: [Conditions] (1)Maintain the road conditions in the upper reaches area of the River as existing at present. (2)utilize existing infrastructure of transportation from Teresina. (3)Keep the sandbanks in the river as they are. [Development Impacts] (1)Becomes possible to transport agricultural products from upper reaches area of the River. (2)As the result, Rural economical activities are much encouraged.					
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Shooting aerial photos, Construction of water control facilities, Screening analysis.	5. TECHNICAL TRANSFER				2. MAJOR REASONS FOR PRESENT STATUS	
12. EXPENDITURE	Total 250,000 (¥000) Contracted	(1)Training in Japan (2 persons) (2)Observation of the movement of riverbed at the site				3. PRINCIPAL SOURCE OF INFORMATION	
						①	

和名 バルナイ川水系船舶航行整備計画調査

PROJECT SUMMARY (M/P)

Compiled Mar. 1986
Revised Mar. 1996

CSA CHL/S 101/83

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1. COUNTRY	Chile	1. SITE OR AREA	All of the lines of the Chilean State Railways								
2. NAME OF STUDY	State Railways Modernization Project	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost						
3. SECTOR	Transportation/Railway	(US\$1,000)	1)								
4. REFERENCE NO.		(US\$1=245 yen=70 pesos)	2)								
5. TYPE OF STUDY	M/P	3. CONTENTS OF MAJOR PROJECT(S)									
6. COUNTERPART AGENCY	Chilean State Railways	<p>In project 1, recommendations were made mainly on the improvement of freight car operation and information systems. In project 2, recommendations were made mainly on the basis of drawing up commercial policies.</p> <p>Main recommendations: For freight service--- 1) Reinforcement of a transport setup between main base stations; 2) introduction of an administration system for revenue targets; 3) promotion of individual contract systems with influential forwarders; 4) increase in marine container transport; and 5) efficient freight car operation. For passenger service--- 1) Reinforcement of long-distance truck line transport and intercity transport; 2) improvement of the seat reservation system, etc. For the telecommunications sector--- Immediate improvement of superannuated facilities</p>									
7. OBJECTIVES OF STUDY	Suggestions and recommendations necessary for the modernization of freight car operation, freight transport system, and business activities dealing with passengers and freight.	<p>4. CONDITIONS AND DEVELOPMENT IMPACTS</p> <p>Improvement impacts: 1) Increase of efficiency in freight car operation and improvement of transport services 2) Sufficient display of the railway's functions in its competition with other modes of transport</p>									
8. DATE OF S/W	1982/3	<p>10. STUDY TEAM</p> <p>No. of Members 16 Period Jul. 1982-Jun. 1983 (12 months)</p> <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;">62.50</td> <td style="text-align: center;">35.50</td> <td style="text-align: center;">27.00</td> </tr> </table>				Total M/M	Japan	Field	62.50	35.50	27.00
Total M/M	Japan	Field									
62.50	35.50	27.00									
9. CONSULTANT(S)	Japan Railway Technical Service	<p>11. ASSOCIATED AND/OR SUBCONTRACTED STUDY</p> <p>None</p>									
12. EXPENDITURE	201,430 (¥'000)	<p>5. TECHNICAL TRANSFER</p> <p>1) Four counterparts personnel received training. 2) Report prepared in cooperation with counterparts.</p>									
Total	183,099	<p>6. MAJOR REASONS FOR PRESENT STATUS</p>									
Contracted		<p>3. PRINCIPAL SOURCE OF INFORMATION</p> <p>①, ②</p>									

国鉄近代化計画