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<b>COUNTRY</b>	Burkina Faso	<b>NAME OF STUDY</b>	Integrated Agricultural Development in the Upper Mouhoun River Basin		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Irrigation, Drainage & Reclamation
<b>OBJECTIVES OF STUDY</b>	Feasibility study on irrigation and agricultural development good for 2,000ha at the river basin of both Mouhoun upper part and Sourou by reinvestigating former Master Plan and transfer of technology concerned.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Arrangement of the basic infrastructure for farm land (irrigation, drainage and rural road). 2. Arrangement of the basic infrastructure for farm villages (water supply and access road).				
<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>					
<p>The request for Japan's grant aid has been submitted annually since 1996.</p> <p>The request for a grant aid (530 mil.yen) for irrigated farm lands (230ha) development was submitted in 1998.</p>					

BFA/A 301/94

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<b>COUNTRY</b>	Cote d'Ivoire	<b>NAME OF STUDY</b>	Hydro-Agricultural Development Project in the Valley of Bou		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	(Agriculture in) General
<b>OBJECTIVES OF STUDY</b>	To investigate development possibilities of the study area and formulate an agricultural development plan.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Reservoir, Fill Dam 2. Irrigation and Drainage Canals 3. Land Reclamation				
<b>PRESENT STATUS</b>	Discontinued or Cancelled	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>					
<p>Reasons for Cancellation:</p> <p>1. It has been difficult to procure the fund.</p> <p>2. Appropriate land for irrigated paddy cultivation is limited in the target area. In addition, soil condition has gotten worse.</p>					

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<b>COUNTRY</b>	Cote d'Ivoire	<b>NAME OF STUDY</b>	Integrated Rural Development Project in the N'ZI River Basin		
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	(Agriculture in) General
<b>OBJECTIVES OF STUDY</b>	M/P on N'Zi River Middle Basin (approx.150,000ha) Integrated Rural Development Project was conducted by request from the Govt.of Cote D'ivoire. F/S was undertaken in the development priority area (approx.1,000ha) selected in M/P.				
<b>MAJOR PROPOSED PROJECT(S)</b>	Rubber dam at N'Zi main stream to irrigate even in the dry season. Small-scale Dam at N'Zi branch river to introduce irrigation agriculture to the slash-and-burn farm area. 1. Irrigation drainage development; 2. Farm land preparation; 3. Post harvest facilities; 4. Rural road; 5. Village water supply.				
<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>					
<p>1. Eholie, Atofou Subsequent study: Review (Sep.-Oct. 1995). Finance: Own fund, BADEA (Aug.1997 L/A, 783 mil.US\$). Construction: Mar. 1998- Apr. 2000</p> <p>2. Dienzou, Yanmon Request for Japan's grant aid was submitted in Dec.1999.</p> <p>3. M'Baihiakro Finance: Loan from Kuwait fund was approved on 10 Nov.1999.</p>					

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<b>COUNTRY</b>	Djibuti	<b>NAME OF STUDY</b>	The Oil-Berths Reconstruction of Port of Djibouti		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1993	<b>SECTOR</b>	Port
<b>OBJECTIVES OF STUDY</b>	To formulate a plan for the reconstruction of the Oil-Berths( No.11, No.12) for the demand of oil-berths in the target year of 2010.				
<b>MAJOR PROPOSED PROJECT(S)</b>	Reconstruction of Oil-Berth No.11 and No.12.				
<b>PRESENT STATUS</b>	Completed	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>					
<p>The proposed projects have been implemented for the purpose of revitalizing the social and economic activities in the country. Subsequent Study: B/D (Mar. 1994 - ). Finance: Japan's Grant Aid (Phase 1: Aug. 1994 E/N 1,399 mil.yen, Phase 2: May 1995 E/N 465 mil.yen). Construction: Phase 1: Nov.1994 - Feb.1996, Phase 2: Oct.1995 - Dec.1996.</p>					

DJI/S 303/93

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<b>COUNTRY</b>	Ghana	<b>NAME OF STUDY</b>	Rehabilitation of Irrigation		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1997	<b>SECTOR</b>	(Agriculture in) General
<b>OBJECTIVES OF STUDY</b>	1) To determine the order of priority of 12 irrigation areas out of existing irrigation systems which are under administration of GIDA, collecting information on scale, grade of damages and oldness of each system. 2) F/S at priority areas.				
<b>MAJOR PROPOSED PROJECT(S)</b>	Rehabilitation Plans of the 5 irrigation scheme. 1. Ashaiman 2. Aveime 3. Kpnado/Torkor 4. Mankessin 5. Okyereko				
<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>			
<b>DESCRIPTION</b>					
<p>It has been decided to implement the proposed projects with Japan's grant aid since they are expected to contribute to the achievement of key policies stipulated in the Medium-term Agricultural Development Plan as well as to the improvement of agricultural economy and the employment creation.</p> <p>Finance: Japan's grant aid (Oct.1998 E/N 764mil.yen). Construction: Mar. 1999 - Mar. 2000.</p>					

GHA/A 315/97

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<b>COUNTRY</b>	Madagascar	<b>NAME OF STUDY</b>	Groundwater Development in Southwestern Area		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Water Supply
<b>OBJECTIVES OF STUDY</b>	To evaluate the potential of groundwater development in the area, and to make a plan of water supply for the area.				
<b>MAJOR PROPOSED PROJECT(S)</b>	Water supply system construction in 50 villages. 1. Well construction: 53 boreholes. 2. Pipe supply system construction in 38 villages, hand pump facility construction in 12 villages.				
<b>PRESENT STATUS</b>	Completed	<b>TECHNICAL TRANSFER</b>	OJT		
<b>DESCRIPTION</b>					
<p>Subsequent study: B/D (Apr. -Jul. 1991). Finance: Japan's grant aid (Jul.1992 E/N 603mil.yen, Jun.1993 E/N 509 mil.yen). Construction: Phase I (Nov.1992 - Dec.1993), Phase II (Nov.1993 - Feb.1995). Effects: The outbreak of water-related diseases has been reduced. Furthermore, some women were assigned to members of the management committee, which contributed to the improvement of social status of women.</p>					

MDG/S 303/91

207	<b>COUNTRY</b>	Madagascar	<b>NAME OF STUDY</b>	Groundwater Development Study in South-Western Region (Phase 2)		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Water Resources Development
	<b>OBJECTIVES OF STUDY</b>	To formulate a water supply plan by utilizing groundwater for 115 villages located in the area between Mangoki and Tsyribihina Rivers.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Construction of water supply facilities in 60 villages.				
	<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	Seminar		
	<b>DESCRIPTION</b>	<p>This study follows the study conducted in 1989-1991. This study followed the conditions of maintenance/management of the water supply facilities which were proposed by the previous study and formulated the water supply plan.</p> <p>The government of Madagascar has expected for assistance from Japan since the completion of this study and has been preparing for the project implementation.</p>				

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208	<b>COUNTRY</b>	Mali	<b>NAME OF STUDY</b>	Kala Upstream Agricultural Development Project		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1990	<b>SECTOR</b>	(Agriculture in) General
	<b>OBJECTIVES OF STUDY</b>	1)To review the existing irrigation system and to formulate an agricultural development master plan for the Study area. 2)To conduct a feasibility study focusing on the priority projects.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Land reclamation for paddy fields, 2.Rehabilitation of the existing irrigation canal, Construction of main/secondary/tertiary irrigation canals, 3.Construction of main/secondary/tertiary drainage canals, 4.Construction of link roads.				
	<b>PRESENT STATUS</b>	Discontinued or Cancelled	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	<p>Reasons for delay:</p> <ol style="list-style-type: none"> <li>1. System for project implementation has not been established.</li> <li>2. Because of the aggravation of political and social situation.</li> </ol> <p>As the proposed projects are not included in the Japan's grant aid request lists these years, it is regarded that the project is cancelled.</p>				

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<b>COUNTRY</b>	Mali	<b>NAME OF STUDY</b>	Nara Region Overall Development Project		
<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	(Agriculture in) General
<b>OBJECTIVES OF STUDY</b>	Acquisition of water resources and agricultural development at the province for promoting the settlement of the inhabitants.				
<b>MAJOR PROPOSED PROJECT(S)</b>	<ol style="list-style-type: none"> <li>1. Develment of groundwater for living and livestock. Application of solar battery pumping.</li> <li>2. Increase of water use efficiency and utilization of water for irrigation.</li> <li>3. Acquisition of food by improving land use and planting system applying agro-forestry.</li> <li>4. Mitigation of desertification by environment protection using techniques on agro-forestry.</li> </ol>				
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>	<p>The data on the situation of water, agriculture, and geology, which were acquired during this study, are utilized.</p> <p>Integrated Food Security Project has been implemented by GTZ since Jan.1997.</p>				

MLI/A 501/95

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<b>COUNTRY</b>	Malawi	<b>NAME OF STUDY</b>	Bwanje Valley Smallholder Irrigation Development Project		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Irrigation, Drainage & Reclamation
<b>OBJECTIVES OF STUDY</b>	Formulation of the appropriate irrigation plan for the area of investigation.				
<b>MAJOR PROPOSED PROJECT(S)</b>	Irrigation Development of Nadzipula, Naminkokwe and Livulezi River Basins. <ol style="list-style-type: none"> <li>1. Construction of irrigation facilities; 2. Improvement of the river crossing facility and Dredging of the rivers; 3. Improvement of rural access road; 4. Social infrastructure development.</li> </ol>				
<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT		
<b>DESCRIPTION</b>	<ol style="list-style-type: none"> <li>1. Irrigation project of Nminkokwe lower river basin (800ha)            Subsequent study: D/D by Japan's grant aid (Feb.1997 E/N 45mil.yen).            Finance: Japan's grant aid (Apr. 1997 E/N 1,210mil.yen).            Construction: Dec.1997 - Dec.1999.            Contents of the project: Construction of irrigation/drainage system and social infrastructures (rural road, rural water supply, post-harvest facility).</li> <li>2. Japan's technical cooperation: dispatch of a JICA expert.</li> </ol>				

MWI/A 301/94

211	<b>COUNTRY</b>	Malawi	<b>NAME OF STUDY</b>	Sustainable Multiple-Use Resources Management of the Nkhotakota Wildlife Reserve		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Forestry & Forest Conservation
	<b>OBJECTIVES OF STUDY</b>	To undertake a M/P study on formulation of sustainable multiple-use resources management plan to conserve forest, wildlife and river basin in Nkhotakota Wildlife Reserve.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Operation/management of the Reserve, Resources management/utilization in the Reserve. 2. Securing fuel wood. 3. Research/study, Extension/education.				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	Counterpart training, Seminar		
	<b>DESCRIPTION</b>	Japan's technical cooperation: Dispatch of an expert (Mar.-Aug.1998, wildlife management). Malawi requested JICA to conduct a F/S.				

MWI/A 104/96

212	<b>COUNTRY</b>	Senegal	<b>NAME OF STUDY</b>	Agricultural Verification Study		
	<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1990	<b>SECTOR</b>	(Agriculture in) General
	<b>OBJECTIVES OF STUDY</b>	Collection & Analysis of data offered through the study at the agricultural verification farm on semiarid agriculture.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Verification study of agricultural production technique: cultivation system, rice cultivation, cultivation of legumes/vegetables/tuber crops/forage crops. 2.Verification study of irrigate farm land managing technique: water management and irrigation, crops protection, agricultural irrigation, and agricultural cooperative group.				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>	Utilization: The results of the verification study were highly evaluated. Agricultural production technique and management technique for irrigated farmland which were proposed by this study have been utilized. Cultivation system with high productivity which were verified by this study has been diffused and increased the farmers' income.				

SEN/A 501/90

213	<b>COUNTRY</b>	Senegal	<b>NAME OF STUDY</b>	Mapping Project in Western Senegal		
	<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Survey & Mapping
	<b>OBJECTIVES OF STUDY</b>	To prepare the 1:50,000 base maps covering an area of approximately 25,500 sq.km in Western Senegal.				
	<b>MAJOR PROPOSED PROJECT(S)</b>					
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	Utilization: The base maps drawn by this Study are utilized in various national development plans and local government's development plans.				

SEN/S 502/91

214	<b>COUNTRY</b>	Senegal	<b>NAME OF STUDY</b>	Urban Drainage and Wastewater Systems in Dakar City and Its Surroundings		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Water Resources Development
	<b>OBJECTIVES OF STUDY</b>	To draw up the basic plan for treatment systems of rain water drainage and filthy water with implementation programs, and to conduct a F/S for the project with priority among the planned projects.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	F/S: 1.Sewage project: development of 12 pumps, secondary trunk lines, and treatment facility. 2.Rainwater drainage project: extension of water pipe (7km) and water channel (3.3km), pump stations, and reservoirs.				
	<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	Counterpart training		
	<b>DESCRIPTION</b>	Finance: Request for Japan's grant aid on B/D and construction work of sewage project was submitted. *The implementing agency, Ministry of Water Transportation, was privatized in 1996 under the guidance of World Bank.				

SEN/S 201/94

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<b>COUNTRY</b>	Senegal	<b>NAME OF STUDY</b>	Development Program for Northern Fishing Areas		
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1997	<b>SECTOR</b>	Fishery
<b>OBJECTIVES OF STUDY</b>	1)M/P on development program for northern coastal fishing area between Dakar and St. Louis, to improve the standard of living of fishermen and realize sustainable fishery, by analyzing the actual situation of small scale fishery. 2)F/S for selected priority projects.				
<b>MAJOR PROPOSED PROJECT(S)</b>	F/S (Saint Louis and Kayar Zones); 1.Establishment of Fisheries complex; 2.Improvement of fisheries marketing system; 3.Promotion of fish processing industry; 4.Improvement of fishermen's life.				
<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>					
Finance: Request for Japan's grant aid for the implementation of Kayar project was submitted in June 1999.					

SEN/A 221/97

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<b>COUNTRY</b>	Tanzania	<b>NAME OF STUDY</b>	Road Improvement and Maintenance in Dar es Salaam		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1990	<b>SECTOR</b>	Road
<b>OBJECTIVES OF STUDY</b>	Elaboration of a M/P on road improvement of Dar es Salaam City. Formulation of a F/S for high priority projects. Establishment of Maintenance system.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1.Category A: Road improvement. 2.Category B: Urgent repairs of potholes. 3.Category C: Establishment of new main depot and procurement of equipment.				
<b>PRESENT STATUS</b>	Completed	<b>TECHNICAL TRANSFER</b>	OJT		
<b>DESCRIPTION</b>					
Subsequent study: B/D was implemented (Dec.1990-Mar.1991). 1.Category A & C Finance: Japan's grant aid (Jul.1991 E/N 896mil.yen, Jun.1992 E/N 987mil.yen, Jun.1993 E/N 1,333mil.yen, 886mil.yen). Construction: Phase 1 implemented (Dec.'91-Dec.'92), Phase 2 implemented (Dec.'92-Jan.'94) Phase 3 implemented (Dec.'93-Feb.'95), Phase 3 implemented (Feb.'95-Mar.'96) 2.Rest of Category A & Category B: Finance; World Bank; Construction; completed (1995). 3.Rest of Category C: Establishment of main depo was completed. 4.Japan's technical cooperation: an expert was dispatched for 4 years. Effects: Reduction of traveling cost. Regional economy and citizen's life has improved.					

TZA/S 303/90



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<b>COUNTRY</b>	Tanzania	<b>NAME OF STUDY</b>	Lower Hai and Lower Rombo Agricultural Development Project		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1990	<b>SECTOR</b>	(Agriculture in) General
<b>OBJECTIVES OF STUDY</b>	1)To assess the availability of groundwater and surface water resources for agricultural development. 2)To identify sub-areas with high agricultural development potential. 3)To formulate agricultural development plan for selected priority sub-area.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1.Construction of irrigation and drainage facilities: Boloti Dam, Lawati Weir, etc. 2.Procurement of operation & management equipment. 3.Reorganization and enforcement of institution & organization.				
<b>PRESENT STATUS</b>	Discontinued or Cancelled	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>	Reasons for cancellation/discontinuation: The irrigation project is included in World Bank funded study and the project will be undertaken depending on the result of it.				

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<b>COUNTRY</b>	Tanzania	<b>NAME OF STUDY</b>	Rehabilitation of Dar Es Salaam Water Supply		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Water Supply
<b>OBJECTIVES OF STUDY</b>	To establish the F/S in order to achieve the followings: 1) Supplying portable water to the served area; 2) Increasing effective water in the WTP; 3) Expecting the autonomous of NUWA; and 4) Improve the operation & maintenance system.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1.In-house activities of National Urban Water Authority (NUWA): meter installation, leakage control measures of distribution system, pipe cleaning. 2.Contractural work: leakage control measures (transmission & distribution system), connection of existing pipes, primary & secondary main pipe installation.				
<b>PRESENT STATUS</b>	Processing	<b>TECHNICAL TRANSFER</b>	Counterpart training		
<b>DESCRIPTION</b>	1.In-house activities of National Urban Water Authority (NUWA) Minimum measures of leakage control are undertaken according to the needs. 2.Contractural work (1)Leakage control measures (transmission & distribution system) Finance: World Bank (600mil.\$).				

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219	<b>COUNTRY</b>	Tanzania	<b>NAME OF STUDY</b>	Water Resources Development in the Ruve River		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Water Resources Development
	<b>OBJECTIVES OF STUDY</b>	The main object is to supply water to the city of Dar es Salaam, capital of Tanzania. Draw up the Master Plan of general water resource development in the Ruve River basin.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Elaboration of dam construction scenarios Scenario 1: Kidunda Dam construction Scenario 2: Mugeta-Dam & Ngerengere Dam construction				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>	<p>1. Kidunda Dam construction Subsequent study: TOR for pre-F/S on water sources development was submitted to World Bank.</p>				

TZA/S 104/94

220	<b>COUNTRY</b>	Tanzania	<b>NAME OF STUDY</b>	Dar es Salaam Road Development Plan		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Road
	<b>OBJECTIVES OF STUDY</b>	To draw up the Master Plan of road development at Dar es Salaam until 2010, and Feasibility Study for the road with priority selected from contents of the Master Plan.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Package A: construction of 4 lanes in the central circulation road & New Bagamoyo Road Package B: construction of 4 lanes in the main roads of downtown & 2 radiate trunk roads *Both package A and B include the installation of signals at the main crosspoints, establishment of sidewalks & bicycle passages, reestablishment of railroads, construction of decrepit bridges.				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	<p>1. Dev. Of central circulation road (7.16km) &amp; local area road in 2 districts (15.6km) Subsequent study: B/D was conducted (1996). Finance: Japan's grant aid (Jul.1997 E/N 1,089mil.yen, Jun.1998 E/N 1,068mil.yen, Jun. 1999 E/N 1,436mil.yen). Construction: Jan.1998-Jan.1999 (rehabilitation of 2 districts). Dec.1998-Mar.2001 (construction of 4 lanes of central circulation road). Effects: Improvement of access to public facilities, improvement of public health by installing drainage facilities, dispersion of transportation inflow to the urban area, etc.</p> <p>2. Community road improvement. Subsequent study: implemented by UNDP and HABITAT. Construction: implementing by WB.</p> <p>3. Parking lot development: implementing by private sector.</p>				

TZA/S 201/94

221	<b>COUNTRY</b>	Tanzania	<b>NAME OF STUDY</b>	Topographic Mapping of Mwanza-Geita Block		
	<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Survey & Mapping
	<b>OBJECTIVES OF STUDY</b>	Draw up the topographic maps with a scale of 1/50,000 printed with five (5) colors.				
	<b>MAJOR PROPOSED PROJECT(S)</b>					
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>	Utilization: The results of the Study are utilized in governmental organizations, private enterprises, and foreign aid organizations. They are mainly used in development of mineral resources, engineering, and tourist industry in the area of Mwanza-Geita Block.				

TZA/S 501/94

222	<b>COUNTRY</b>	Tanzania	<b>NAME OF STUDY</b>	The Feasibility Study on Monduli Town and the Surrounding Area Water Supply in Arusha Region		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	Water Resources Development
	<b>OBJECTIVES OF STUDY</b>	Water resources development, water supply plan elaboration, and technology transfer.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Moduli water supply project: deepwell construction (3 wells), water pipe construction (23km). 2.Village water supply project: deepwell construction (2 wells) & repair (2 wells), small-scale dam construction (28 dams) & repair (6 dams).				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
	<b>DESCRIPTION</b>	<p>1.Moduli water supply project Finance: Application for Japan's grant aid has already been submitted from RDD, which is the counterpart agency, to the Finance Ministry.</p> <p>2.Village water supply project (1)Groundwater development: Rehabilitation of Mswakini water supply facility (extension of the pipe) was implemented with the fund of District Council. (2)Rasharaha Dam rehabilitation Finance: USAID. Construction: completed. (3)Dam construction Dam was constructed in Lossimingori Village.</p>				

TZA/S 305/95

223	<b>COUNTRY</b>	Tanzania	<b>NAME OF STUDY</b>	Solid Waste Management for Dar es Salaam City		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1997	<b>SECTOR</b>	Urban Sanitation
	<b>OBJECTIVES OF STUDY</b>	To examine countermeasures to improve urban environment in Dar es Salaam and to elaborate a M/P for solid waste management. F/S for priority project.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Improvement of waste collection and disposal: Improvement of waste collection and disposal, New Kunduchi disposal development, Street sweeping improvement, Nyerere workshop improvement, Administrative system improvement. 2.Improvement of night soil collection and transport system.				
	<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	Counterpart training, Seminar		
	<b>DESCRIPTION</b>	<p>The following steps are undertaken:</p> <ol style="list-style-type: none"> <li>1.Solid waste department was established in the Municipal.</li> <li>2.New waste collection fee system was established. Waste collection had been undertaken under the new system.</li> <li>3.The contract form of collection and transportation service had altered from concession type to contract-out type.</li> <li>4.The new final disposal site was officially decided to Kunduchi.</li> </ol>				

TZA/S 213/97

224	<b>COUNTRY</b>	Tanzania	<b>NAME OF STUDY</b>	Smallholder Irrigation Project in Central Wami River Basin		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1997	<b>SECTOR</b>	(Agriculture in) General
	<b>OBJECTIVES OF STUDY</b>	Elaboration of a M/P on agricultural development in order to stabilize and increase rice production in 13 on-going & 3 new irrigation projects at midstream of Wami river basin. Formulation of a F/S on priority areas.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	F/S: 1.Mgeta district development (30ha); 2.Mgongola district development (620ha); 3.Mkula district development (149ha); 4.Mwega district development (580ha). Total 4 schemes (1,379ha).				
	<b>PRESENT STATUS</b>	Processing	<b>TECHNICAL TRANSFER</b>	Counterpart training		
	<b>DESCRIPTION</b>	<p>Subsequent study: D/D with a grant aid (Jan.2000 E/N 30 mil.yen).</p> <p>Finance: Japan's grant aid for Mwega irrigation scheme is to be approved. Request for a grant aid for Mgongola irrigation scheme was submitted in 1999. Request for a grant aid on Mkula and Mgeta schemes will be submitted.</p>				

TZA/A 222/97

225

<b>COUNTRY</b>	Uganda	<b>NAME OF STUDY</b>	Rural Water Supply in the Mpigi, Mubende and Kiboga Districts			
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Water Resources Development	
<b>OBJECTIVES OF STUDY</b>	To formulate a water supply plan by utilizing groundwater in order to stabilize the supply of safe water in Mpigi, Mubende and Kiboga Districts.					
<b>MAJOR PROPOSED PROJECT(S)</b>	Water supply facilities development: deep wells, shallow wells, improved springs, public tap water supply system, irrigation ponds.					
<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT			
<b>DESCRIPTION</b>	<p>Subsequent study: B/D was implemented (Apr.-May 1997).          *Shallow wells, improved springs, irrigation ponds which were proposed in the F/S were not included due to the sanitary problem.</p> <p>Finance: Japan's grant aid (Jan.1998 E/N 638mil.yen, May 1999 E/N 2,659mil.yen).          *Japan's grant aid for the Phase II of this project will be provided.</p> <p>Construction: Phase 1/2 (Jun.1998 - Mar.1999, completed); Phase 2/2 (Nov.1999 - Mar. 2002).</p> <p>Japan's technical cooperation: 2 trainees were accepted for 4 months.</p>					

UGA/S 312/96

226

<b>COUNTRY</b>	Argentina	<b>NAME OF STUDY</b>	Topographic Mapping of North-East Region in Argentine Republic			
<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Survey & Mapping	
<b>OBJECTIVES OF STUDY</b>	Topographic mapping of North-east region of the country with a scale of 1:100,000, and to arrange digital mapping data.					
<b>MAJOR PROPOSED PROJECT(S)</b>						
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT			
<b>DESCRIPTION</b>	<p>Utilization:          Topographic maps, the outputs of this study, have been utilized as basic data for the National Development Plan formulation and various investigations. They are also widely utilized in various organizations/institutes such as the Geographical Research Center of the Army.</p>					

ARG/S 501/94

227	<b>COUNTRY</b>	Argentina	<b>NAME OF STUDY</b>	Forest Resources Management Study at Chaco		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	Forestry & Forest Conservation
	<b>OBJECTIVES OF STUDY</b>	Implementation of Forest Resources Survey and elaboration of Sustainable Forest Management Plan to utilize forest resources effectively.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Forest Operation Project: Maximum permissible tree felling (503.5m <sup>3</sup> /year); Renewal area (204ha/year); Nursery (2.3million); Forest road (358.8km); Farm forest (2,362ha). 2. Forest Conservation: Reserved forest (317 ha).				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
	<b>DESCRIPTION</b>	<p>Utilization: This study clarified the actual situation of land use and forestry resources. As a result, the local forest law was reviewed and the local institutions in charge of the forest were reinforced.</p> <p>Japanese technical cooperation: Dispatch of two experts for the formulation of West Formosa Integrated Management Project were requested to JICA.</p>				

ARG/A 102/95

228	<b>COUNTRY</b>	Argentina	<b>NAME OF STUDY</b>	Economic Development(the Second Study)		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	(Development Plan in) General
	<b>OBJECTIVES OF STUDY</b>	1) To analyze the situation of macro-economic/sectoral development and to make a proposal for sustainable economic growth. 2) To analyze the conditions necessary for industrial development and trade/investment promotion. 3) Technology transfer to the Argentine counterpart.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Expansion of the export and promotion of the direct investment to the East Asia and the Pacific Islands; 2. Strengthening of the export capacity for the East Asia; 3. Strengthening/nurture of the small/medium-sized enterprises; and 4. Promotion of the industry and development of the transportation system for export expansion.				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	Seminar		
	<b>DESCRIPTION</b>	<p>Utilization: 1. Subsecretary of Commerce have implemented 1)formation of the program for promoting the export; 2)fund provision by BICE to export industries; 3)insurance for export loan; and 4)development of comprehensive information system.</p> <p>2. Regarding the sea transportation and ports, the following activities have been conducted: 1)Establishment of the Buenos Aires Port Administration Company is being prepared; 2)Coordination with other ports and promotion of the trading of the port; and 3)Dredging of canals, expansion of the port area, development of land transportation.</p>				

ARG/S 121/96

229

<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Agricultural and Rural Development Project in Santa Ana		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1990	<b>SECTOR</b>	(Agriculture in) General
<b>OBJECTIVES OF STUDY</b>	Formulation of irrigated agriculture and rural development plans.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Water source facilities (sabo dam construction); 2. Irrigation canals development; 3. Road improvement; 4. Rural electrification; 5. Rural water supply; 6. Public health center; 7. Educational facilities; 8. Agricultural extension facilities.				
<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT		
<b>DESCRIPTION</b>	<p>1. Road improvement: Several roads were paved in Santa Ana area with the provision of materials/equipment from JICA.</p> <p>2. Rural electrification: Completed in Santa Ana, Disel areas, etc.</p> <p>3. Educational facilities: Implemented with the Social Investment Fund.</p>				

BOL/A 301/90

230

<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Road Improvement between Santa Barbara and Bella Vista		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1990	<b>SECTOR</b>	Road
<b>OBJECTIVES OF STUDY</b>	Feasibility Study on the road improvement between Santa Barbara and Bella Vista.				
<b>MAJOR PROPOSED PROJECT(S)</b>	<p>1. Widening of the road: 92.29km</p> <p>2. Change of the route: 16.34km</p> <p>3. Development of bridges and tunnels: 13 bridges and 2 tunnels.</p> <p>4. Pavement: asphalt and concrete pavement.</p>				
<b>PRESENT STATUS</b>	Processing	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>	<p>Since this road section is very notorious for its dangerous places and disaster occurrence, the proposed projects have been realized gradually.</p> <p>Subsequent study: Review of F/S, EIA, and D/D (15 months).</p> <p>Finance: IDB (70mil.\$). Since the total cost is estimated 200mil.\$, other financial sources are being sought.</p> <p>Construction: 1998 - 2000.</p> <p>2 sections (Phase I: Santa Barbara - Caranabi (66km); Phase II: Caranabi - Bella Vista (52km)).</p>				

BOL/S 306/90

231

<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Modernization and Rehabilitation of Bolivian National Railways		
<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Railway
<b>OBJECTIVES OF STUDY</b>	Draw-up a M/P and a plan with stages on modernization of the Bolivian National Railways.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Short-term: track imp. (4 lines), dev. of rolling stock, workshops, telecommunication networks; 2. Medium-term: track imp. (2 lines), dev. of rolling stock, workshops, telecommunication networks, computers, construction of new lines; 3. Long-term: track improvement, dev. of rolling stock and railway training school.				
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>	<p>Subsequent study: JICA Development Study (F/S, Mar. 1993 - Oct. 1995). *Study area: a section between Aguas Calientes and Ilpa Irpa with frequent occurrence of disasters.</p> <p>Implemented projects with own fund: 1. Improvement of several railway crossings. 2. Construction of four new stations. 3. Repair of locomotive engines and equipment of workshops.</p>				

BOL/S 101/91

232

<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Forest Resources Management		
<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Forestry & Forest Conservation
<b>OBJECTIVES OF STUDY</b>	Forest resources survey and formulation of a Forest Management Plan compatible with the environment.				
<b>MAJOR PROPOSED PROJECT(S)</b>	Target area: Northern part (300,000ha) of Iturralde Province, La Paz State. 1. No. of forest compartments (Sector I: 30, Sector II: 29); 2. Area classification (production forest, protection areas, forest roads, grazing areas, abandoned forest roads); and 3. Formulation of the forest protection plan and proposals for operation/maintenance organization.				
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
<b>DESCRIPTION</b>	<p>Utilization: 1. The basic policy of this study have been applied for formulating M/P and conducting F/S in other areas. 2. The results of this study have been utilized as basic data for the settlement of new areas for borrowing. 3. Based on this study, the Ministry of Agriculture formulated the Northern La Paz Sustainable Forest Management Project which was planned to be implemented with OIMT fund (provision of 50,000US\$ was pledged).</p>				

BOL/A 101/91



233

<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Control of Water Contamination of the Rivers in the City of La Paz		
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1993	<b>SECTOR</b>	Environmental Problems
<b>OBJECTIVES OF STUDY</b>	To draw up the basic plan of the measures to protect the water contamination, and the F/S of the project with high priority.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. To intake water from the Choqueyapu River at the downstream of city center. 2. Transmission of the river water. 3. Construction of oxidation ponds at Lipari.				
<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	Counterpart training		
<b>DESCRIPTION</b>					
<p>Situation of the request: La Paz City submitted the request for the additional study for construction of the module-type sewerage treatment plant along the Choqueyapu River.</p> <p>*Module-type: Small-scale plant to distill waste water in place of draining to river directly.</p>					

BOL/S 212/93

234

<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Agricultural Marketing Systems in Santa Cruz		
<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	(Agriculture in) General
<b>OBJECTIVES OF STUDY</b>	1)To formulate the improvement plan on the distribution system of green grocery in Santa Cruz Province. 2)Technology transfer.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1.Short-term plan: 1)Imp. of related organizations and legislation system; 2)Test imp. plan for existing distribution facilities; 3)F/S on distribution centers in producing/consuming districts. 2.Medium/long-term plan: 1)Construction of shipment and market facilities and establishment of management system; 2)Establishment and extension of the improved distribution system.				
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
<b>DESCRIPTION</b>					
<p>1. Short-Term Plan (1)Improvement of the legislation system: under examination for the implementation. (2)Improvement of the infrastructure in the wholesale market: on-going. (3)Productive center and distribution center: JICA Development Study (F/S, Jun.1998 - Jun.1999).</p> <p>2.Medium and Long Term Plan: The expansion of the marketing system at the regional level will be undertaken between 2000 and 2010.</p>					

BOL/A 102/95

235

<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Improvement Project of the Oruro-Cochabamba Line		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	Railway
<b>OBJECTIVES OF STUDY</b>	To assure the stable transportation between Oruro-Cochabamba.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Aguas Calientes - Irpa Irpa (area with frequent occurrence of disasters); 1)change of the route and improvement of the stations; 2)construction of bridges/tunnels; 3)dev. of the existing line. 2. Other sections: 1)improvement of railroads; 2) imp. of the facilities at Cona Cona Station; 3)Increase of locomotives.				
<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>			
<b>DESCRIPTION</b>	<p>Bolivian government has decided that the government be in charge of the infrastructure development and the private company be in charge of operation. Although the Chilean company won the bid for the management right for the national railway, there has not been any progress.</p>				

BOL/S 307/95

236

<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Topographic Mapping of La Paz-Beni Region		
<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	Survey & Mapping
<b>OBJECTIVES OF STUDY</b>	1.Drawing of Basic Map 1:50,000 (64 sheets). 2.Technology Transfer.				
<b>MAJOR PROPOSED PROJECT(S)</b>					
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>	<p>Utilization: Beni Province of La Paz is the important area to proceed new economic policy of Bolivia. Therefore, the basic maps, the outputs of this study, have been utilized for planning and implementing several infrastructure development projects.</p>				

BOL/S 502/95

237	<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Environmental Impact Assessment of Road Improvement between San Borja and Trinidad		
	<b>TYPE OF STUDY</b>	Other Studies	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	Road
	<b>OBJECTIVES OF STUDY</b>	San Borja - Trinidad Road Improvement (F/S, D/D). Evaluation of environment impact.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	<ol style="list-style-type: none"> <li>1. Planting for protection of slope.</li> <li>2. Tree felling control for conservation of forest and animals.</li> <li>3. Survey for the ruins and monitoring on animals, plants, air, and noise.</li> <li>4. Installation of the traffic marks.</li> </ol>				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	<p>Repairing work is gradually on-going along with the results of this Study.</p>				

BOL/S 601/95

238	<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Flood Control in the Northern Rural Region of Santa Cruz		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	River & Erosion Control
	<b>OBJECTIVES OF STUDY</b>	To formulate a M/P on flood control in the northern region of Santa Cruz.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	<ol style="list-style-type: none"> <li>1. Chane - Pailon Area: River and drainage improvement.</li> <li>2. San Juan - Antofagasta Area: River and drainage improvement.</li> <li>3. Non-structural measures (flood warning and evacuation system, use management, etc.).</li> </ol>				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	<p>A committee was established in the Department of Santa Cruz after the completion of this Study.</p> <p>Subsequent study: JICA Development Study (F/S, Jun. 1998 - May 1999). Finance: Request for Japan's grant aid for road cum embankment and drainage improvement was submitted.</p>				

BOL/S 117/96

239	<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Provincial Groundwater Development		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Water Resources Development
	<b>OBJECTIVES OF STUDY</b>	1) To plan a groundwater development strategy for 4 prefectures (Chuquisaca, Oruro, Tarija, Santa Cruz) and the south part of La Paz. 2) To formulate a water supply plan in one water-supply block selected in respective prefectures except La Paz.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Water supply plan (including water source development plan, water supply and distribution plan) for rural communities.				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	Seminar, Workshop		
	<b>DESCRIPTION</b>	<p>There are no water supply in 3,023 blocks, 71% of the total 4,269 blocks of the Study area. The proposed projects have been implemented with a Japan's grant aid for the purpose of enhancing the living standard of villagers and improving the public health.</p> <p>Subsequent study: B/D (already conducted in Chuquisaca and Santa Cruz, on-going in Oruro and Tarija as of 1998).  Finance: Japan's grant aid (Apr. 1997 E/N 1,777mil.yen, Sep.1997 E/N 1,325mil.yen).  *Contents: Construction of model water supply facilities in Chuquisaca and Santa Cruz.  Japan's grant aid (Mar.1999 E/N 1,173mil.yen, Aug.1999 E/N 700mil.yen).  *Contents: Construction of model water supply facilities in Oruro and Tarija.  Construction: completed.</p>				

BOL/S 218/96

240	<b>COUNTRY</b>	Bolivia	<b>NAME OF STUDY</b>	Agricultural Development Study of Achacachi Area		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1997	<b>SECTOR</b>	(Agriculture in) General
	<b>OBJECTIVES OF STUDY</b>	F/S on agricultural development in Achacachi City and surrounding villages (middle and down stream of Queca River, approx.8,000 ha) to promote agricultural productivity and improve the standard of living of farmers.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Short-term: Rehabilitation of main (57.3km) and secondary (11.4km) irrigation canals, dev. of intake structure, 2 reservoirs, main (56.8km) and connect (7.2km) roads, etc.; 2.Medium-term: Rehabilitation of main canal, dev. of CRC (Community Revitalization Center) and AC (Area Center); and 3.Long-term: Rehabilitation of main and secondary canals, dev. of intake structure.				
	<b>PRESENT STATUS</b>	Processing	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Workshop		
	<b>DESCRIPTION</b>	<p>Subsequent study: B/D ( Sep.- Oct. 1999).  Finance:  Request for Japan's grant aid was submitted in Aug. 1998. E/N will be signed in Jun.2000.  FDC (Nov. 1999, US\$512,000), The subsidy on regional operation (Jun. 1999).  Construction: Construction with FDC will be started in Apr. 2000.  Japanese technical cooperation: A JICA expert was dispatched in May - Aug. 1998.  Others: UCPA was established in Dec.1997. AUPA was formed in Aug. 1998.</p>				

BOL/A 317/97

241

<b>COUNTRY</b>	Brazil	<b>NAME OF STUDY</b>	Flood Control Project in the Lower Itajai River Basin		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1989	<b>SECTOR</b>	River & Erosion Control
<b>OBJECTIVES OF STUDY</b>	To carry out feasibility study on flood control project in lower Itajai River basin.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Construction of floodway; 2.River rehabilitation work in Itajai River; 3.River rehabilitation work in Itajai Mirim River; 4.Rehabilitation work of existing short-cut channel.				
<b>PRESENT STATUS</b>	Processing	<b>TECHNICAL TRANSFER</b>	OJT		
<b>DESCRIPTION</b>	<p>Subsequent study: EIA (Aug.1997 - Feb.1998).</p> <p>1. River rehabilitation work in Itajai River Finance: Own fund (129.9mil.R.), Japan's ODA Loan (1996 E/N 17,596mil.yen). Implementation of the project is to be decided based on the results of EIA, then the L/A of ODA loan is to be signed.</p>				

BRA/S 302/89

242

<b>COUNTRY</b>	Brazil	<b>NAME OF STUDY</b>	Disaster Prevention and Restoration Project in Serra do Mar, Cubatao Region		
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1990	<b>SECTOR</b>	River & Erosion Control
<b>OBJECTIVES OF STUDY</b>	<p>1) To formulate a master plan (target year: 2000) and to select priority projects. 2) To conduct feasibility study on priority projects by the year of 1995.</p>				
<b>MAJOR PROPOSED PROJECT(S)</b>	<p>F/S: 1. Sediment Run-off Prevention Plan: 9 Sabo (erosion control) dams and 6 channel works; 2.Moji River Rehabilitation Plan; and 3.Forest Restoration Plan.</p>				
<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>	OJT, Seminar		
<b>DESCRIPTION</b>	<p>1.Non-structural Measures such as hazard maps development: Implemented. 2.Sediment Run-off Prevention Plan The government of Brazil is considering to submit the request for the financial assistance from either World Bank or Japanese government. 3. Flood Prevention Plan Dredging of 739,000m<sup>3</sup> of Moji River, Piacaguera River and Cubatao River were implemented from 1994 to 1998. 4. Forest Restoration Plan Plantation of 3 experimental forests are implemented for research and studies (1992-2004) on atmospheric pollution influence.</p>				

BRA/S 202B/90

243	<b>COUNTRY</b>	Brazil	<b>NAME OF STUDY</b>	Urban Transport in Belem		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Urban Transportation
	<b>OBJECTIVES OF STUDY</b>	Master plan study on urban transport.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Medium-term Plan: 1.Trunk road construction/improvement (12); 2.Intersection improvement and road widening; 3.Construction of bus terminals, bus stops, and bus preferred roads (21). Long-term Plan: 1.Trunk road construction/improvement (10); 2.Construction of bus stops (10); 3.Dev./imp. of pavements, installation/imp. of signals, development of parking plots.				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	Seminar		
	<b>DESCRIPTION</b>	<p>1.Trunk Road Construction &amp; Improvement A Part of Belem Highway was developed. Pedro Miranda Road (Pedro Alvares Cabral-Mendara residential area): implementing. Coquiro Road, Tapaná Road, Bengui Road: implemented.</p> <p>2.Construction of Public Bus Facilities 4 integrated bus terminals were constructed by own fund.</p> <p>The results of this study have been utilized for the formulation of RMB (Belem Metropolitan Region) Strategy, etc.</p>				

BRA/S 105/91

244	<b>COUNTRY</b>	Brazil	<b>NAME OF STUDY</b>	Navigation of the Parnaíba River Basin		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Port
	<b>OBJECTIVES OF STUDY</b>	To investigate the possibility of ship transportation along the Parnaíba River.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Rehabilitation of the lock at Boa Esperansa; 2.Development of river ports (7 to 8 ports from Santa Filomena in upper reach to Teresina in middle reach); 3.Shipbuilding; 4.Arrangement of the beacons along the routes, etc.				
	<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>	The request for loan for the pilot project was submitted to the EXIM Bank of Japan.				

BRA/S 306/94

245	<b>COUNTRY</b>	Brazil	<b>NAME OF STUDY</b>	The Utilization of Water Resources in Parana State		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	Water Resources Development
	<b>OBJECTIVES OF STUDY</b>	Elaboration of Integrated Water Resources Development Plan on each water use fields (target year: 2015). Proposal on legislation of organization and improvement of water maintenance.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Urgent studies: Curitiba Metropolitan Water Environment Integrated Plan, other 4 plans; 2. M/P on major river basins except pilot area; 3. Elaboration and review of socio-economic, regional, industrial and traffic development plans based on this study; and 4. Implementation of the strategies/plans based on this study and review of them every 5 years.				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
	<b>DESCRIPTION</b>					
	<p>Situation of utilization:</p> <ol style="list-style-type: none"> <li>1. The results of this study are referred for the new water resources management model.</li> <li>2. The results of this study have been reflected in the Curitiba Metropolitan Regional Plan.</li> </ol>					

BRA/S 106/95

246	<b>COUNTRY</b>	Chile	<b>NAME OF STUDY</b>	Rehabilitation and Conservation Program of Bridges		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1992	<b>SECTOR</b>	Road
	<b>OBJECTIVES OF STUDY</b>	To establish a bridge maintenance and rehabilitation plan on the national highway No.5.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Rehabilitation plan for the detailed-surveyed bridges (10 bridges). 2. Rehabilitation plan for 17 bridges necessary for urgent repair. 3. Guideline for bridge maintenance and inspection. 4. Bridge maintenance and management system.				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>					
	<ol style="list-style-type: none"> <li>1. Rehabilitation and construction of ten detailed-surveyed bridges <ul style="list-style-type: none"> <li>(1) Bio-Bio Antiguio Bridge Subsequent study: JICA Development Study (F/S, 1993 - 1994), D/D (own fund, 1995). Construction: completed.</li> <li>(2) Claro Bridge Finance: Own fund. Construction: Old one was rehabilitated, new one was constructed.</li> <li>(3) Amolanas Bridge, Pullally Bridge, etc. Subsequent study: D/D (own fund). Construction: rehabilitated, new modern one is being constructed.</li> <li>(4) Other Bridges (Pullally, Maipo, Peuco, Loncomilla, Ramadillas, Malleco, Pichoy, Cayumapu) Rehabilitated or reconstructed.</li> </ul> </li> </ol>					

CHL/S 103/92

247

<b>COUNTRY</b>	Chile	<b>NAME OF STUDY</b>	Forest Resources Management		
<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1992	<b>SECTOR</b>	Forestry & Forest Conservation
<b>OBJECTIVES OF STUDY</b>	Considering current wood demand increase and degradation of natural forests, the forest management plan should be formulated by harmonizing conservation and utilization of forest resources.				
<b>MAJOR PROPOSED PROJECT(S)</b>	The land use plan for the model area of approx. 64,000ha was formulated and the area was classified into conservation area and production area. 1. Formulation of the forest management plan: cutting, regeneration, nursery practice, forest road construction, forest conservation; and 2. Proposal for the experiment forest.				
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>	<p>Utilization: Various maps, basic data, the outputs of this Study, have been widely utilized for the research works of natural forest not only in the model area but also in other areas, for the land use and vegetation analysis of the satellite images and for the environmental improvement.</p> <p>Japanese technical cooperation: A JICA expert was dispatched in 1994.</p>				

CHL/A 501/92

248

<b>COUNTRY</b>	Chile	<b>NAME OF STUDY</b>	Development of Water Resources in Northern Chile		
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Water Resources Development
<b>OBJECTIVES OF STUDY</b>	Draw up the plan of underground water resources development to supply water for the cities of Arica and Iquique in Northern Chile, and carry out the feasibility study to research the priority among them.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Water supply for Iquique City. 2. Water supply for Arica City. 3. Survey for the underground water development at Lauca River Basin.				
<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT		
<b>DESCRIPTION</b>	<p>Subsequent Study:</p> <p>1. ESSAT (Water Supply and Sewage Service Corporation): Additional Survey was conducted on water resources development which would meet the current and future demands.</p> <p>2. Ministry of National Planning: A comprehensive survey was conducted on six river basins including San Jose in the critical situation.</p> <p>Finance: Fund from ESSAT (Water Supply and Sewage Service Corporation) of Tarapacá State. Construction: partially implemented.</p>				

CHL/S 201/94



249	<b>COUNTRY</b>	Chile	<b>NAME OF STUDY</b>	Feasibility Study on the New Biobio Bridge		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Road
	<b>OBJECTIVES OF STUDY</b>	To investigate the existing bridge across Biobio River and study the possibility to construct a New Bridge including the most appropriate route.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Construction of a bridge with a length of 1,855m and a width of 24.4m in type of post-tensioning hollowed slab bridge.				
	<b>PRESENT STATUS</b>	Completed	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
	<b>DESCRIPTION</b>	<p>The following points were the main reasons for implementation:</p> <ol style="list-style-type: none"> <li>1.High priority was given over the development of national roads in Chile as it supports the advancement of export industry.</li> <li>2.The permanence of Biobio Bridge has come to its limit.</li> </ol> <p>Finance: Chile government fund (US\$45mil.).  Components: construction of the bridge (2,157m in length), Los Carrera Road and the access road, development of six intersections.  Construction: 29 May 1998 commenced. Construction of the bridge was completed in Jan. 2000.</p>				

CHL/S 301/94

250	<b>COUNTRY</b>	Chile	<b>NAME OF STUDY</b>	Industrial Solid Waste Management in the Metropolitan Region		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	Urban Sanitation
	<b>OBJECTIVES OF STUDY</b>	<ol style="list-style-type: none"> <li>1)M/P on industrial/medical waste disposal.</li> <li>2)Selection of the most preferred project.</li> </ol>				
	<b>MAJOR PROPOSED PROJECT(S)</b>	<ol style="list-style-type: none"> <li>1. Institution system.</li> <li>2. Technology system (gathering/transportation industry, intermediate/final disposal industry).</li> </ol>				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
	<b>DESCRIPTION</b>	<p>1.Utilization:</p> <ol style="list-style-type: none"> <li>(1) The results of this Study have been utilized for the formulation of the Regional Plan for Industrial Solid Waste Management.</li> <li>(2) Data obtained by this Study have been utilized in the National Environment Committee (CONAMA) and National Environment Center (CENMA).</li> </ol> <p>2.Technology system (gathering/transportation industry, intermediate/final disposal industry)  Subsequent study: planned to be conducted with private fund.  Finance: Private fund is to be procured.</p>				

CHL/S 104/95

251	<b>COUNTRY</b>	Colombia	<b>NAME OF STUDY</b>	Ariari River Basin Integrated Agricultural Development Project		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1989	<b>SECTOR</b>	(Agriculture in) General
	<b>OBJECTIVES OF STUDY</b>	(1) To formulate an optimum integrated agricultural development plan; (2) To verify technical and socio-economic feasibility of the selected project; and (3) To transfer the relevant technology to Colombian counterparts.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Irrigation Area: 23,815 ha. 1. Irrigation facilities development: headwork, main irrigation canal, drainage canal, diversion works, siphons, etc. 2. On-farm development: tertiary irrigation canals, drainage, roads, etc.				
	<b>PRESENT STATUS</b>	Processing	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>					
	Finance: Japan's ODA Loan (Apr. 1996 L/A 7,673 mil. yen). *Contents: Intake weir (height 3.0m, width 210m), Irrigation canal (208km), Drainage canal (5km), Road improvement. Construction: Although the bid was accepted, due to the security problem, the construction has not started yet.					

COL/A 303/89

252	<b>COUNTRY</b>	Colombia	<b>NAME OF STUDY</b>	Air Pollution Control Plan in Santafe de Bogota City Area		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Environmental Problems
	<b>OBJECTIVES OF STUDY</b>	To investigate and analyze air pollution, meteorology, air pollutant sources, socio-economic conditions and air pollution control measure in Santafe de Bogota City, on the basis of which to propose a guideline for the air pollution control measure there.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Entire area: (1) Institution (revision of emission standard, etc.); (2) Short-term (fuel improvement, introduction of dust collector, etc.); (3) Medium/long-term (imp. Of combustion of oil boiler). 2. Specific area: (1) Prohibition of the tall building; (2) Raising the chimney.				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>					
	1. Entire area 1) Implemented: control of exhaust gas of vehicle, improvement of omnibus system, promotion of exclusive lane for buses, promotion of use of gas in households, control of exhaust gas from factories, control of evaporation of HC. 2) Under implementation: conversion/improvement of fuel, installation of dust collector. 2. Establishment of air pollution monitoring system (32 stations) in Bogota City Finance: World Bank Construction: 9 stations were open as of Jan. 1997.					

COL/S 103/91

253	<b>COUNTRY</b>	Colombia	<b>NAME OF STUDY</b>	Quindio Basin Integrated Agricultural Development Project		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	(Agriculture in) General	
<b>OBJECTIVES OF STUDY</b>	To implement the F/S for the priority areas selected in the M/P conducted in 1988.					
<b>MAJOR PROPOSED PROJECT(S)</b>	1.Agricultural development: road improvement, irrigation improvement, development of agro-processing facilities (5 locations), development of a research center. 2.Coffee waste water treatment.					
<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT			
<b>DESCRIPTION</b>						
<p>1.Agricultural development Subsequent study: D/D (1993). (1) road improvement: completed with own fund. (2) irrigation improvement: partially completed with own fund of large-scale farmers which own irrigation facilities.</p> <p>2.Coffee waste water treatment Systems were introduced in 73 households (800ha).</p>						

COL/A 304/91

254	<b>COUNTRY</b>	Colombia	<b>NAME OF STUDY</b>	The Urban Transport Study in the City of Cartagena de Indias.		
<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1992	<b>SECTOR</b>	Urban Transportation	
<b>OBJECTIVES OF STUDY</b>	The formulation of Comprehensive Urban Transport Plan (Road Transport, Public Transport and Traffic Management) until 2010.					
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Short-term: Imp./construction of road, bus stops, water transportation, traffic management system; 2. Medium-term: Imp./construction of road, bus stops, bus terminals, signals, 3. Long-term: Imp./construction of road, bus terminals, trunk road bus system, bus terminals for water transportation.					
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Seminar			
<b>DESCRIPTION</b>						
<p>1. Public Transportation Subsequent study: F/S (1994 and 1997). Finance: Own fund (1996, City fund, 700mil.US\$). Installation of signals at the intersections and construction of pavements. Construction: 1997 - 1998 (Spanish ETRA). Effects: improvement/alleviation of traffic congestion at the peak time in commercial and residential areas.</p> <p>2. Road Network Improvement Improvement project of the existing road network has been partially implemented.</p>						

COL/S 104/92

255

<b>COUNTRY</b>	Colombia	<b>NAME OF STUDY</b>	Forest Resources Management		
<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1992	<b>SECTOR</b>	Forestry & Forest Conservation
<b>OBJECTIVES OF STUDY</b>	In order to rehabilitate forests' functions to conserve headwaters, and to prevent erosion, the guideline on forest management plan and the model plans should be formulated contributing to development of appropriate forest resources management system.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Guideline for forest management. 2. Forest management model plan.				
<b>PRESENT STATUS</b>	Delayed	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
<b>DESCRIPTION</b>					
Reasons for delay: The governmental organizations in charge of the project was restructured. No concrete actions have been taken for realizing the proposed projects.					

COL/A 502/92

256

<b>COUNTRY</b>	Colombia	<b>NAME OF STUDY</b>	Urban Transportation for Santafe of Bogota City		
<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Road
<b>OBJECTIVES OF STUDY</b>	To formulate the M/P for the urban transportation to solve the serious traffic jam and to promote the development in Bogota City and its surrounding areas.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Traffic management development project for nine routes. 2. Bus trunk route development project for 15 routes. 3. Railway construction project for two sections. 4. Urban expressway construction project for three sections.				
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	Seminar		
<b>DESCRIPTION</b>					
1. Traffic Management Project (15th avenue): on-going. 2. Bus Route Development Project Subsequent study: JICA Development Study (F/S, Apr.1998 - Jun.1999). 3. Railway Development Subsequent study: F/S is under implementation. Situation of the request for Japanese government 1)D/D on the bus route development project. 2) F/S on the expressway construction project.					

COL/S 118/96

257	<b>COUNTRY</b>	Costa Rica	<b>NAME OF STUDY</b>	Mapping Project for Metropolitan Area of San Jose City		
	<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Survey & Mapping
	<b>OBJECTIVES OF STUDY</b>	Topographic mapping necessary to the integrated rural development of this country.				
	<b>MAJOR PROPOSED PROJECT(S)</b>					
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>			
	<b>DESCRIPTION</b>	<p>Utilization:</p> <ol style="list-style-type: none"> <li>1. An aerial photography, the output of this Study, have been widely utilized in the public planning.</li> <li>2. The maps were digitized for the purposed of establishing the geographic information system.</li> </ol> <p>Japanese technical cooperation: A JICA expert was dispatched.</p>				

CRI/S 501/91

258	<b>COUNTRY</b>	Costa Rica	<b>NAME OF STUDY</b>	Development Project of Three International Airports		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1992	<b>SECTOR</b>	Air Transportation & Airport
	<b>OBJECTIVES OF STUDY</b>	Preparation of master plan and feasibility study of the priority project on the short-term development project.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	<p>M/P: Development projects for three airports (Juan Santamaria, Liberia, Limon International Airports).</p> <p>F/S: Development project for Juna Santamaria International Airport (civil works, architectural works, air navigation systems, airport utilities works, compensation works, etc.).</p>				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	Counterpart training		
	<b>DESCRIPTION</b>	<ol style="list-style-type: none"> <li>1. Development project for Juna Santamaria International Airport Subsequent study: D/D (Own fund, 1993). Finance: (Phase I) Own fund; (Phase II) BOT. Construction: (Phase I) May 1996 - 15months; (Phase II) tenders are being made. *Contents: construction of fuel storage facilities, expansion of passenger's terminal building, construction of cargo terminal building, cargo platform, development of radar facilities.</li> <li>2. Liberia International Airport: Expansion of the platform and improvement of passenger terminal are to be implemented.</li> <li>3. Limon International Airport: Rehabilitation of landing strip and passenger terminal is scheduled to be implemented with own fund.</li> </ol>				

CRI/S 201B/92

259	<b>COUNTRY</b>	Dominican Republic	<b>NAME OF STUDY</b>	Groundwater Development Project in The Western Region		
	<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1992	<b>SECTOR</b>	Water Resources Development
	<b>OBJECTIVES OF STUDY</b>	1)To evaluate the development potential of groundwater resources in four western provinces. 2)To prepare water resources development plan including rural water supply plan for 158 villages in four western provinces.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Water supply for 58 villages in Monte Cristi, Elias Pina, Dajabon, Independencia Provinces. 1.Hand pump system (40 villages); 2.Motor pump system (7 villages); 3. Reservoir pond and purification booster pump system (2 places, 7 villages); 4.Water conveyance system (2 sets, 4 villages).				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>					
	Utilization: The results of this Study have been utilized for planning of the National Development Plans and projects of the Ministries. Subsequent study: B/D was conducted. 1. Dajabon Finance: Japan's grant aid (Feb.1995 E/N 391mil.yen). Construction: Jul. 1995 - Mar.1996. 2. Monte Cristi and Elias Pina Finance: Japan's grant aid (Sep. 1995 E/N 391 mil.yen, Sep. 1996 E/N 983mil.yen). Construction: Feb.1996 - Mar.1997. Effects: Standard of living of rural area has greatly improved by stable pure water supply.					

DOM/S 501/92

260	<b>COUNTRY</b>	Dominican Republic	<b>NAME OF STUDY</b>	Limon del Yuna Area Agricultural Development		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	(Agriculture in) General
	<b>OBJECTIVES OF STUDY</b>	Revitalization in the area with increase of agricultural production by agricultural development removing the impediment factor of irrigation drainage.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Facilities for water sources; 2.Irrigation facilities; 3.Drainage facilities; 4.Flood protection; 5.Road facilities; 6.Operation and management office.				
	<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>					
	The request for subsequent study and fund is to be submitted. Contents of the request: Subsequent study: D/D. Finance: Japan's ODA Loan. Contents of the projects: Construction and rehabilitation of the irrigation facilities.					

DOM/A 304/95

261

<b>COUNTRY</b>	Guatemala	<b>NAME OF STUDY</b>	Development Project of La Aurora and Santa Elena Airports		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1989	<b>SECTOR</b>	Air Transportation & Airport
<b>OBJECTIVES OF STUDY</b>	Improvement and expansion of La Aurora and Santa Elena Airports.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Emergency programs: (La Aurora) renewal of radar systems and CFR facilities; (Santa Elena) renewal of secondary power system. 2. Short-term development programs: improvement of runway, taxiway, apron, aviation support facilities, airport supporting facilities.				
<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	Counterpart training		
<b>DESCRIPTION</b>					
<p>Some feasible projects have been implemented with own fund.</p> <p>1. La Aurora Airport</p> <p>(1) Radar system: System was purchased. The construction of a new control tower started at the end of 1998.</p> <p>(2) Recording system/VHF telecommunication of the control tower were installed.</p> <p>(3) Rehabilitation/expansion of the terminal building: partially implemented.</p> <p>2. Santa Elena Airport</p> <p>(1) Radar system: System was purchased. The construction of a new control tower started at the end of 1998.</p> <p>(2) Visual flight support system: budget for the installation is under examination.</p> <p>(3) Rehabilitation of the terminal building: partially implemented.</p>					

GTM/S 302/89

262

<b>COUNTRY</b>	Guatemala	<b>NAME OF STUDY</b>	Comprehensive Urban Transportation System in Guatemala Metropolitan Area		
<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Urban Transportation
<b>OBJECTIVES OF STUDY</b>	To formulate a Master Plan on the comprehensive urban transportation system in Guatemala Metropolitan Area.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Emergency projects: development of buses and bus lanes, effective use of bus lanes. 2. Short-term projects: development of East-West Corridor, Imp. of Petapa Ave., busway, intersections, etc. 3. Medium/long-term projects: development of inner ring road, traffic control system, etc. 4. Long-term projects: imp. of ring road, etc.				
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
<b>DESCRIPTION</b>					
<p>Emergency/Short-term projects</p> <p>1. East-West Corridor development, Improvement of Petapa Ave and Busway Subsequent study: JICA Development Study (F/S, Aug. 1995 - Feb. 1997).</p> <p>2. Improvement of intersections Finance: Central American Bank of Economic Integration (30mil.Q). Construction: commenced in 1995.</p> <p>3. Improvement of 15 streets in 6 districts, bus stops (250), road signs Finance: Fund from the City of Guatemala.</p> <p>4. Ave. Hincapie Project: construction of a bridge, improvement/widening of the road Implemented with own fund.</p>					

GTM/S 101/91

263

<b>COUNTRY</b>	Guatemala	<b>NAME OF STUDY</b>	Solid Waste Management in Metropolitan Area of Guatemala City			
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Urban Sanitation	
<b>OBJECTIVES OF STUDY</b>	1)To contribute the development of the systematic management of the solid waste in the Metropolitan area of Guatemala City; 2)To determine the possibility of the implementation of some first priority projects which must be achieved by 1996.					
<b>MAJOR PROPOSED PROJECT(S)</b>	<F/S> 1. Imp. of collection services in the surrounding areas: concession to private collectors, renewal of collection vehicles own by the city; 2. Imp. of the final disposal plant: imp. of the existing El Trebor landfill and construction of a Guacamayas new landfill; 3. Institutional/financial improvement: establishment of the committee, a pilot program on sanitary education.					
<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training			
<b>DESCRIPTION</b>						
<p>1. Improvement of the existing El Trebor landfill Subsequent study: B/D (Jan.1992). Finance: Own fund, Japan's grant aid (Mar.1992 E/N 309mil.yen).</p> <p>2. Improvement of collection services in the surrounding areas (concession to private collectors) Under examination.</p> <p>3. Institutional/financial improvement (1)Collection services: approval system for garbage collection was introduced. Private-owned vehicles have been annually and periodically checked and their collection areas are restricted. (2)Program on sanitary education for the residents: implemented with videos provided by JICA.</p>						

GTM/S 202B/91

264

<b>COUNTRY</b>	Guatemala	<b>NAME OF STUDY</b>	Integrated Agricultural and Rural Development Project in Jutiapa			
<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1992	<b>SECTOR</b>	(Agriculture in) General	
<b>OBJECTIVES OF STUDY</b>	To carry out Master Plan Study on the Integrated Rural and Agricultural Development Project at Jutiapa, which is located in the south-eastern limit of Guatemala.					
<b>MAJOR PROPOSED PROJECT(S)</b>	<Priority Projects> 1. Santa Catarina Mita Integrated Rural Development Project: irrigation plan (rehabilitation/construction of pumping stations), rural roads & rural water supply plan; and 2. Muntufar Integrated Rural Development Project: irrigation plan (2,400ha), drainage plan (1,065ha), rural road & rural water supply plan.					
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT			
<b>DESCRIPTION</b>						
The proposed projects have not been progressed due to the change of the government policies, development target areas, etc. However, a part of the rural road plan and irrigation infrastructure are being implemented in Santa Catarina Mita.						

GTM/A 101/92



265

<b>COUNTRY</b>	Guatemala	<b>NAME OF STUDY</b>	Groundwater Development in the Central Plateau Area		
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	Water Resources Development
<b>OBJECTIVES OF STUDY</b>	Water resources (groundwater) development for water supply in the local cities.				
<b>MAJOR PROPOSED PROJECT(S)</b>	F/S: 10 cities were selected. 1. Water sources development. 2. Improvement of water supply facilities (construction of additional drainage pond, distribution facilities).				
<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
<b>DESCRIPTION</b>					
<p>Finance: Japan's grant aid (Dec.1997 E/N 1,198mil.yen).  *Contents: construction of wells in 5 cities, installation of pumps and construction of distribution pipes in 9 cities, provision of maintenance materials and water quality check.  Construction: completed.</p>					

GTM/S 203/95

266

<b>COUNTRY</b>	Guatemala	<b>NAME OF STUDY</b>	Forest Management in Baja Verapas		
<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Forestry & Forest Conservation
<b>OBJECTIVES OF STUDY</b>	1)To formulate the Forest Management Plan with researching the resources of the forest in the whole area of 280,000 ha of the Baja Verapas. 2)To formulate the Pilot Forest Management Plan after researching and setting the pilot forest for training and practice.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Forest Management Plan for Baja Verapas 2. Management Plan for San Jeronimo National Forest				
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	Counterpart training, Seminar		
<b>DESCRIPTION</b>					
<p>Utilization: The outputs of this Study such as aerial photographs and thematic maps have been utilized for the development plans and projects implemented by several Ministries.</p> <p>Situation of the request: The requests for Japan's grant aid and dispatch of an expert were submitted.</p>					

GTM/A 106/96

267	<b>COUNTRY</b>	Guatemala	<b>NAME OF STUDY</b>	Improvement of Wastewater Management in the Guatemala Metropolitan Area		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Sewerage
	<b>OBJECTIVES OF STUDY</b>	1)To formulate the M/P on the sewerage/sanitation sector to improve the public health and conserve the environment in the Guatemala Metropolitan Area by 2015; and 2)To conduct the F/S for the selected priority projects.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	<M/P> Development/maintenance plan for the sewerage/sanitation facilities in the Metropolitan Area (20,470ha). <F/S> Development/maintenance plan for the sewerage/sanitation facilities in the priority area (South-3 Area, 2,360ha).				
	<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	Seminar		
	<b>DESCRIPTION</b>	1.Development/maintenance plan for the sewerage/sanitation facilities in South-3 Area (2,360ha) EMPAGUA is preparing for the request for Japan's ODA loan which is expected to be provided around 2000.				

GTM/S 219/96

268	<b>COUNTRY</b>	Guatemala	<b>NAME OF STUDY</b>	Comprehensive Urban Transportation System in the Metropolitan Area		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Urban Transportation
	<b>OBJECTIVES OF STUDY</b>	To conduct the F/S for the development project of urban transportation system in the Metropolitan Area to strengthen the public transportation system and to improve the road network in the Metropolitan Area.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Petapa Road: construction of the trunk road. 2. Construction of FEGUA exclusive bus road. 3. Establishment of the bus inspection and service center.				
	<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>	Counterpart training		
	<b>DESCRIPTION</b>	<p>The proposed projects have been proceeded satisfactorily since the fund procurement has become possible due to the establishment of the regulations such as traffic promotion law, public transportation law, municipality supporting law, and the government understood the importance of the comprehensive urban transportation system.</p> <p>1. Construction of Naranjo Bridge and supplemental construction work for the East-West Corridor Finance: Own fund (Guatemala City).</p> <p>2. Development for the public transportation Approximately 40% of the traffic facilities/equipment such as signals, traffic sings, bus stops have been renewed.</p> <p>3.La Paz Calzada (5km), Atanazio Tzul Calzada (5km), Rafael Landivar Boulevard (5km), level crossing. Japanese technical cooperation: Trainees were accepted (1999 - 1 year).</p>				

GTM/S 313/96

269

<b>COUNTRY</b>	Honduras	<b>NAME OF STUDY</b>	Rehabilitation of Coyolar Dam and Irrigation Improvement Project in Comayagua Valley		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1990	<b>SECTOR</b>	Irrigation, Drainage & Reclamation
<b>OBJECTIVES OF STUDY</b>	Establishment of Coyolar Dam Rehabilitation Plan and Improvement Plan of Flores Irrigation System.				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Rehabilitation Plan of Coyolar Dam 2. Improvement of Flores Irrigation System				
<b>PRESENT STATUS</b>	Completed	<b>TECHNICAL TRANSFER</b>	Counterpart training, Seminar		
<b>DESCRIPTION</b>					
<p>Rehabilitation Plan of Coyolar Dam and Development of Flores Irrigation System  Subsequent study: 1991.  Finance: Own fund, Kuwait fund.  Construction: 1993 - 1998.  Effects: 11% of the land of Flores and 19% of Villa, where is not cultivated, have been recuperated due to the irrigation system. In addition, the standard of living of the farmers has been enhanced, which is expected to alleviate the migration to the cities.</p>					

HND/A 304/90

270

<b>COUNTRY</b>	Honduras	<b>NAME OF STUDY</b>	Rural Telecommunications Network Project		
<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1992	<b>SECTOR</b>	Telecommunication
<b>OBJECTIVES OF STUDY</b>	To formulate a master plan covering until the year 2002 for a rural telecommunications network offering automatic telephone service to 223 rural community areas (Aldea).				
<b>MAJOR PROPOSED PROJECT(S)</b>	1. Phase I: New telephone exchange stations (12 stations), Optical fiber cable transmission system (12 sections), Digital multi access system (7 systems), Subscriber lines (15,670 pair X km). 2. Phase II: New telephone exchange stations (6 stations), Optical fiber cable transmission system (6 sections), Digital multi access system (6 systems), Subscriber lines (14,850 pair X km).				
<b>PRESENT STATUS</b>	Discontinued or Cancelled	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar.		
<b>DESCRIPTION</b>					
<p>Reasons for cancellation: This project was discontinued because the American firm, AT&amp;T, started providing the exchanges to main towns and villages holding a mortgage on the change for international call.</p>					

HND/S 102/92

271	<b>COUNTRY</b>	Honduras	<b>NAME OF STUDY</b>	Erosion and Sediment Control in the Pilot River Basin, Choloma, San Pedro Sula, Cortes		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1993	<b>SECTOR</b>	River & Erosion Control
	<b>OBJECTIVES OF STUDY</b>	To formulate a master plan of flood control and sediment control and conduct a feasibility study.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Choloma River: river improvement (7.8km), embankment (15.6km), check dam (10), consolidation (17), training levee (1.3km), etc.; 2. El Sauce River: river improvement (7.5km), diversion channel (2.6km), embankment (19.7km), etc.; 3. Blanco River: check dam (23), consolidation (7), training levee (4.0km), etc.				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>	<p>1. Development of Choloma River</p> <p>(1) Channel (length: 8km, width: 60m): Finance: External fund. Construction: Completed in 1994.</p> <p>(2) Consolidation: Finance: External fund. Construction: Completed in 1996.</p> <p>(3) Flood Control and Sobo (urgent plan)</p> <p>Finance: Japan's grant aid (Jan.1998 E/N 60mil.yen, Jun.1999 E/N 587mil.yen).</p> <p>Construction: planned to be completed in 2001.</p> <p>2. Improvement of the Hydrologic information system</p> <p>11 pluviometers provided by the JICA study team were installed in 1996.</p> <p>3. Elaboration of maps of risk</p> <p>They were prepared in 1994 with their own fund.</p>				

HND/S 213/93

272	<b>COUNTRY</b>	Honduras	<b>NAME OF STUDY</b>	Improvement of the Ports		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1993	<b>SECTOR</b>	Port
	<b>OBJECTIVES OF STUDY</b>	1)Port Development and Management Strategy; 2)M/P, F/S for port of Cortes; and 3)Urgent Improvement Plan.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Ports Development and Management Strategy. 2. Development Plan for Port of Cortes. 3. Management Plan for Port of Cortes. 4. Urgent Improvement Plan for Major Ports.				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	Counterpart training		
	<b>DESCRIPTION</b>	<p>1. Ports Development and Management Strategy</p> <p>The medium-term plan (1996 -1999) was planned to be formulated.</p> <p>2. Urgent Development Plan for Port of Cortes</p> <p>The improvement work which should be treated as the daily maintenance have been implemented. Important equipment with durability and low investment cost are to be rehabilitated.</p> <p>Construction of the wharf: May 1995 - May 1997.</p> <p>3. Development Plan for Port of Cortes</p> <p>(1)Refrigerating warehouse terminal: Completed with funds from Spanish government and BCIE.</p> <p>(2)Cabotage terminal: Constructed in 1997.</p> <p>(3)Coastal traffic jetty: Constructed in 1994.</p>				

HND/S 214/93

273	<b>COUNTRY</b>	Honduras	<b>NAME OF STUDY</b>	Irrigated Agricultural Development Project in Jesus de Otoro, Intibuca Department		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Irrigation, Drainage & Reclamation
	<b>OBJECTIVES OF STUDY</b>	Elaboration of the most appropriate project implementation plan through the feasibility study of the agricultural development by irrigation in the target area.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Irrigation and drainage plan (right bank and left bank of Yucanguare, other 6 areas, 3,359ha in total); Development of canals and rural administrative roads. 2. Rural infrastructure development plan: Rural road (5.96km), Spillway (3), Farmers' assembly hall (8), Agricultural development center (1).				
	<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	1. Irrigation and Drainage Plan for the Right Bank of Yucanguare The request for Japan's grant aid was submitted.				

HND/A 305/94

274	<b>COUNTRY</b>	Honduras	<b>NAME OF STUDY</b>	Maintenance Project of the Vehicle Traffic System in Teguchigalpa		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Urban Transportation
	<b>OBJECTIVES OF STUDY</b>	To formulate the M/P for the Maintenance Project of the Vehicle Traffic System to alleviate the serious traffic jam in Teguchigalpa by 2010.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Intersection improvement. 2. Road improvement and new construction work. 3. New bridge construction. 4. Improvement of bus system.				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	1. Intersection improvement Finance: Loan from Mexico. Construction: On-going. 3. New Bridge Construction The bridge connecting from Comayaguela Sixth Street to Tiloarque was constructed with own fund. Japan's grant aid (Dec.1999 E/N 73mil.yen, 68mil.yen, 85mil.yen).				

HND/S 119/96

275	<b>COUNTRY</b>	Honduras	<b>NAME OF STUDY</b>	The Study on the Strategies and Plans for the Upgrading of Health Status		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Others
	<b>OBJECTIVES OF STUDY</b>	To formulate the M/P for the health care services in the priority sub-sectors and areas; and the strategies to upgrade the comprehensive health and medical services.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Model Program for Urban Cities: San Pedro Sula City. 2. Model Program for Poverty Alleviation: Intibuca and Tegucigalpa. 3. Model Program for Integrated Development: Olancho.				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	Counterpart training		
	<b>DESCRIPTION</b>	<p>The request for implementation of the proposed projects has been submitted.</p> <p>1. Model Program for Urban Cities (San Pedro Sula City) The request for implementing the project of strengthening the hospital networks in San Pedro Sula (five emergency clinics, one maternity hospital, their equipment) was submitted to Japanese Government.</p>				

HND/S 123/96

276	<b>COUNTRY</b>	Honduras	<b>NAME OF STUDY</b>	Forest Resources Management and Development Study in Teupassenti		
	<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Forestry & Forest Conservation
	<b>OBJECTIVES OF STUDY</b>	To establish the Forest Management Guideline based on the results of the investigation for the forest resources in Teupassenti Area (190,000 ha) in El Paso. To formulate the Forest Resources Management Plan for the model area (40,000 ha) according to the Guideline.				
	<b>MAJOR PROPOSED PROJECT(S)</b>					
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	Counterpart training, Seminar		
	<b>DESCRIPTION</b>	<p>Utilization: Based on this study, the COHDEFOR has prepared an operation plan for Teupassenti National Forest which is currently under implementation.</p> <p>Japanese technical cooperation: A JICA expert (forest management) is dispatched (Apr.1998 - Apr.2000).</p> <p>Forest protection, logging, etc. have been implemented with the government fund.</p>				

HND/A 501/96

277	<b>COUNTRY</b>	Mexico	<b>NAME OF STUDY</b>	Integrated Agriculture, Livestock and Rural Development in the Coast of Jalisco		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	(Agriculture in) General
	<b>OBJECTIVES OF STUDY</b>	Elaboration of Integrated Development Project (M/P level) integrated by measures for effective utilization of land and water resources organization of producers, products distribution in the target area.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	<Priority Projects>1.Farm products for export promotion program; 2.Agricultural/stock farm products distribution improvement program; 3.Agricultural/stock farm products processing facility project; 4.Small-scale irrigation project; 5.WID organization reinforcement program.				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
	<b>DESCRIPTION</b>					
	<p>1.Farm products for export promotion program: The products improvement program (banana, sesame, mango, etc.) was formulated. New products for export such as eggplant, cabbage, tomato, okra and new technology are introduced.</p> <p>2.Agricultural/stock farm products distribution improvement program: The collecting place for the stock farm products was constructed and the market information system for producers was established.</p> <p>3.Agricultural/stock farm products processing facility project Two plants for processing mango were constructed. Packing machines are introduced.</p> <p>4.Small-scale irrigation project: Various irrigation facilities were constructed.</p> <p>5.WID organization reinforcement program: The domestic work training was conducted.</p>					

MEX/A 101/95

278	<b>COUNTRY</b>	Nicaragua	<b>NAME OF STUDY</b>	Road Improvement and Rehabilitation Study		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Road
	<b>OBJECTIVES OF STUDY</b>	Draw up the Master Plan for arrangement of main national highways in Nicaragua, and the Feasibility Study for the national highways with high priority.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	<F/S> 1. Construction of crossings, widening to 4 lanes, construction of 2 bridges, etc.: Managua - Masaya (8.52km). 2.Development of drainage facilities and pavements: Managua - Masaya (17.38km), Managua - Tipitapa (4.3km), Nandaime - San Venito (65.125km), Telica - San Isidro (95.76km).				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>					
	<p>1.Road 1)Constructions are on-going: Matagalpa - Siuna: Started in Apr.1997 with own fund, funds from EU and BID. La Virgen - Rivas: Started in 1995 with own fund, Denmark fund. 2)Subsequent studies were conducted: Managua - Masaya, Somotillo - Guasaule, Esteli - Las Manos</p> <p>2.Bridge Sebaco, La Madera Bridges: Completed in 1997. Las Lajas Bridge: Completed in 1996 with Japan's grant aid. Rio Leona, Telica, Cinco Cruces, La Pavona, Los Llanos Bridges: Planned to be completed in 1999 with own fund and WB fund. Las Banderas, La Tonga, Estero Real: D/D by Japan's grant aid (Jan. 2000 E/N 82mil.yen).</p>					

NIC/S 201/94

279	<b>COUNTRY</b>	Nicaragua	<b>NAME OF STUDY</b>	Improvement of the Solid Waste Management System for the City of Managua		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	Urban Sanitation
	<b>OBJECTIVES OF STUDY</b>	1)M/P on waste disposal. 2)F/S on the most preferred project.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Improvement of garbage collecting and cleaning system at public area. 2.Improvement of the existing Los Cocos workshop. 3.Promotion for community consciousness and participation. 4.Construction of Acahualinca new final disposal plant.				
	<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
	<b>DESCRIPTION</b>	<p>1.Improvement of garbage collecting and cleaning system at public area Collection service area was expanded with introducing the new route. Containers (15 cu.m) were installed.</p> <p>2.Construction of Acahualinca new final disposal plant Three experts were dispatched for the selection/evaluation of the site for a new disposal plant.</p> <p>Situation of the requests: Request for financial assistance was submitted to Japanese government.</p>				

NIC/S 202/95

280	<b>COUNTRY</b>	Nicaragua	<b>NAME OF STUDY</b>	Sanitation and Improvement of Urban Environment of Principal Cities		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1997	<b>SECTOR</b>	(Public Utilities in) General
	<b>OBJECTIVES OF STUDY</b>	To improve urban environment at 3 principal cities (Chinandega, Leon and Granada), conduct basic design study, draw up comprehensive M/P for selected cities including solid waste, sewerage management and drainage, and F/S on priority projects.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Improvement of solid waster management system. 2. Improvement of the urban environment for the model city.				
	<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>	<p>EIA on the final disposal plant was approved by the Ministry of Environment.</p> <p>The request for Japan's grant aid for the provision of equipment/materials for waste collection in Granada, Leon, and Chinandega was submitted.</p>				

NIC/S 215/97



281

<b>COUNTRY</b>	Panama	<b>NAME OF STUDY</b>	Rehabilitation Plan and Container Terminal Operation Plan at the Port of Cristobal		
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1993	<b>SECTOR</b>	Port
<b>OBJECTIVES OF STUDY</b>	1)To formulate the M/P for the port of Cristobal for the target year of 2010. 2)To conduct the F/S of the short-term improvement plan for the port of Cristobal for the target year of 2000.				
<b>MAJOR PROPOSED PROJECT(S)</b>	<F/S> 1.New container terminal: container berth, container cranes (2), transfer cranes (7); 2.Modernization of the existing container terminal; 3.Modernization of the existing piers and Mole Area; 4.Development of access road.				
<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>	<p>Although the proposed projects have delayed due to several reasons relating to the privatization of the port management, it is expected to upgrade the services and improve their efficiency.</p> <p>1. Modernization of the existing piers Construction: Quay shed in Pier No.7 was demolished. Open storage area was paved.</p>				

PAN/S 215/93

282

<b>COUNTRY</b>	Panama	<b>NAME OF STUDY</b>	Study of Alternatives to the Panama Canal		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1993	<b>SECTOR</b>	Marine Transportation & Ships
<b>OBJECTIVES OF STUDY</b>	Economic analysis and impact analysis on the alternatives prescreened by the Commission. Study of 47 canal alternatives on engineering and cost estimate for screenings.				
<b>MAJOR PROPOSED PROJECT(S)</b>	Construction of one lane lock for 150,000DWT ship paralleled to the existing locks: construction of one lane on Culebra Cut and two lanes on other part, preparation of the approach channels, widening of the Gaillard Cut.				
<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>			
<b>DESCRIPTION</b>	<p>Although the proposed projects have not been implemented, it is expected that some actions will be taken since the Canal will be transferred from U.S. to the Republic of Panama in 31 Dec. 1999.</p>				

PAN/S 307/93

283	<b>COUNTRY</b>	Panama	<b>NAME OF STUDY</b>	Improvement of Panama-Colon Highway		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1993	<b>SECTOR</b>	Road
	<b>OBJECTIVES OF STUDY</b>	To formulate a M/P for arterial road development between Panama and Colon. To carry out a Feasibility Study on selected projects of the M/P.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Alcade Diaz Section (20.2km): Construction of 4-lane highway. 2.Sabanitas Section (26.2km): Construction of 4-lane highway.				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	<p>The projects have been implemented with BOT scheme. Implementing enterprise is PYCSA, a Panamanian Representative of a Mexican Contractor.</p> <p>Subsequent study: Conducted. Finance: BOT. Commission of operation/management: 30 years. Construction: Section I (Alcade Diaz - Madden): It is now possible for use. Section II (Madden - Colon): not yet commenced.</p>				

PAN/S 308/93

284	<b>COUNTRY</b>	Panama	<b>NAME OF STUDY</b>	Development of Tourism in the Coastal Area		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	(Tourism in) General
	<b>OBJECTIVES OF STUDY</b>	1)To formulate a long-term tourism plan at coastal area to promote tourism (target year 2010). 2)To conduct F/S on priority selected projects.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	<F/S> 1.Chame Resort Development; 2.Panama Canal Tourism Development; 3.Flower and Green City Project; 4.Portobelo Tourism Development; 5.Caribbean Coast, Costa Arriba Road Development; and 6.Superspeed Boat Sea Route Development.				
	<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>	<p>1.Panama Canal Tourism Development API has concluded a contract with a private company, Emapresa Intercarib, and has ordered the formulation of the Land Utilization Plan and the Investment Promotion Program of this proposed project.</p> <p>2.Flower and Green City Project The project has been partially implemented by the City of Panama as a main implementing body.</p>				

PAN/S 201/95

285

<b>COUNTRY</b>	Panama	<b>NAME OF STUDY</b>	Development Plan of the Port of Balboa		
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1997	<b>SECTOR</b>	Port
<b>OBJECTIVES OF STUDY</b>	1)M/P for long-term development plan of the Port of Balboa including the land utilization plan of adjacent area after the hand over of Panama Canal, to modernize it, focusing on improvement of container handling capacity (target year 2015). 2)F/S for short-term development (target year 2005).				
<b>MAJOR PROPOSED PROJECT(S)</b>	<M/P> Container terminal (Farfan), Oil terminal. <F/S> Container terminal (Diablo), Berths for tuna boats and sand barges, Increasing the depth of the pier for passenger cruiser ships.				
<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>	Counterpart training		
<b>DESCRIPTION</b>					
BOT contract to develop Balboa Port was signed with Panama Ports Company, S.A. (PPC) in Dec. 1996. The JICA Study formulated the long-term plan for 2015, in which a recommended plan for the said contract was also included. Similarly in coming years, Balboa is expected to be developed appropriately based on the Master Plan.					

PAN/S 216/97

286

<b>COUNTRY</b>	Peru	<b>NAME OF STUDY</b>	Improvement of Sewerage System in Southern Part of Lima		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1989	<b>SECTOR</b>	Sewerage
<b>OBJECTIVES OF STUDY</b>	Improvement of sea water contamination around the Lima and environmental health condition.				
<b>MAJOR PROPOSED PROJECT(S)</b>	Construction of the sewerage treatment plant to utilized treated water for agriculture and tree-planting in San Bartolo Plains.				
<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>					
Subsequent study: Review study by WB in Dec.1995. *Change of the treatment measure, construction of Huascar treatment plant and rehabilitation of San Juan sewerage treatment plant were proposed. Finance: Japan's ODA Loan (Sep.1996 L/A 1,266mil.yen). Construction: May 1998 - May 2001.					

PER/S 301/89

287	<b>COUNTRY</b>	Peru	<b>NAME OF STUDY</b>	The Topographic Mapping of Lima Metropolitan Area		
	<b>TYPE OF STUDY</b>	Basic Study	<b>STUDY COMPLETION YEAR</b>	1992	<b>SECTOR</b>	Survey & Mapping
	<b>OBJECTIVES OF STUDY</b>	Topographic Mapping. Land Use Mapping.				
	<b>MAJOR PROPOSED PROJECT(S)</b>					
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	<p>Utilization:</p> <ol style="list-style-type: none"> <li>1. Air-photographs and topographic maps have been utilized for the several development projects.</li> <li>2. The topographic maps have been utilized for the urban planning works.</li> </ol>				

PER/S 502/92

288	<b>COUNTRY</b>	Paraguay	<b>NAME OF STUDY</b>	Water Pollution Control Plan for the Lake Ypacarai and its Basin		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1989	<b>SECTOR</b>	Environmental Problems
	<b>OBJECTIVES OF STUDY</b>	Study on Water Pollution Conditions in Lake Ypacarai and formulation of Water Pollution Control Plan.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	<p>&lt;Priority Projects&gt;</p> <ol style="list-style-type: none"> <li>1. Construction of waste water treatment systems;</li> <li>2. Construction of sludge treatment plant;</li> <li>3. Rehabilitation of the existing sewage treatment plants;</li> <li>4. Conservation of lakeshore vegetation;</li> <li>5. Forest conservation and management;</li> <li>6. Control of erosion from roads, quarries and river banks.</li> </ol>				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	<p>Utilization:</p> <ol style="list-style-type: none"> <li>1. The results of this Study have been utilized as a base for a F/S on analysis of water pollution and its alleviation.</li> <li>2. They have also been utilized for the elaboration of land readjustment plan at central provinces and waste disposal plan of Asuncion City and its surrounding areas.</li> </ol> <p>Japanese technical cooperation: Experts on solid waste management and on water quality analysis were dispatched (Apr.1995 - 2 years).</p>				

PRY/S 102/89

289	<b>COUNTRY</b>	Paraguay	<b>NAME OF STUDY</b>	Integrated Rural Infrastructure Improvement Project in La Colmena		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1989	<b>SECTOR</b>	(Agriculture in) General
	<b>OBJECTIVES OF STUDY</b>	Formulation of agricultural and rural development plan.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Road improvement; 2.Irrigation facilities development; 3.Drainage improvement; 4.Rural water supply development; 5.Electrification; 6.Medical care facilities development; 7.Telecommunication system development; 8.Development of operation & management center.				
	<b>PRESENT STATUS</b>	Completed	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	<p>1.Road, Irrigation facilities, Rural water supply, Operation &amp; management center  Subsequent study: B/D (Aug.1989 - Feb.1990).  Finance: Japan's grant aid (Jul.1990 E/N 526mil.yen, Jul.1991 E/N 621mil.yen).  Construction: Phase I (Feb.1991 - Feb.1992), Phase II (Sep.1991 - May 1992).</p>				

PRY/A 303/89

290	<b>COUNTRY</b>	Paraguay	<b>NAME OF STUDY</b>	National Transport Master Plan		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	(Transportation in) General
	<b>OBJECTIVES OF STUDY</b>	<p>1)Planing the optimum transport system for regional development and to support foreign trade.  2)Planning of short to long term transport improvement policy and implementation program.</p>				
	<b>MAJOR PROPOSED PROJECT(S)</b>	<p>1.Roads: development of trunk roads, rural roads, and bridges.  2.Railways: development of Asuncion suburban area railways, railing stocks, etc.  3.Ports: development of cereals export terminals, main foreign trade port at Villeta, etc.  4.Airports: development of international/domestic airports facilities, air route, etc.</p>				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	<p>1. Roads  (1)Trunk road development  Subsequent study: JICA Development Study (F/S, Feb.1996 - Mar.1997).  Finance: Japan's ODA Loan (Aug.1998 L/A 19,428mil.yen).  (2)Development/rehabilitation of National Highways  Rehabilitation works of No.2, 3, 5, 6 (widening to 4 lanes) were completed with BID and FONILATA fund.  Rehabilitation works and pavement of No.1, 3, 4, 5 were completed.  2.Railways  Implementation with BOT scheme has been considered.</p>				

PRY/S 103/91

291	<b>COUNTRY</b>	Paraguay	<b>NAME OF STUDY</b>	Integrated Agricultural and Livestock Development Project at Lower Chaco		
	<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	(Agriculture in) General
	<b>OBJECTIVES OF STUDY</b>	Formulation of the Master Plan on agricultural and livestock farming development at the Presidente Hayes Department (with an area of approx.73,000sq.km) in Southern Lower Chaco District.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Support for the research work of agricultural/livestock farming: experiment station, stock farm, etc.; 2. Infrastructure development for agricultural/livestock farming: trunk road, farm land, irrigation facilities, etc.; 3. Social infrastructure facilities dev.: clinics, educational facilities, etc.; 4. Distribution/processing facilities dev.: cotton fins, citrus selection facilities, etc.				
	<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar		
	<b>DESCRIPTION</b>	<p>Utilization:</p> <p>1.Information obtained by this Study (soil, water flora, infrastructure, population ,development strategy, etc.) has been utilized for policy making and formulation of plans/projects of the government and international organizations.</p> <p>2.The results of this Study have been incorporated into 10-Year Rural Agricultural and Human Resources Development Strategy.</p>				

PRY/A 103/94

292	<b>COUNTRY</b>	Paraguay	<b>NAME OF STUDY</b>	Solid Waste Management for Metropolitan Area of Asuncion		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1994	<b>SECTOR</b>	Urban Sanitation
	<b>OBJECTIVES OF STUDY</b>	1)To draw up the basic plan to treat waste material. 2)Feasibility Study for the project with the top priority.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Improvement of waste collection at 14 autonomous municipalities. 2. Improvement of waste collection at Asuncion City. 3. Construction of the transit base at Av. Madam Linch. 4. Construction of the disposal plant for wider area.				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	Counterpart training, Seminar		
	<b>DESCRIPTION</b>	<p>1. Improvement of waste collection at Asuncion City Subsequent study: B/D (Nov.1997 - Jan.1998). Finance: Japan's grant aid (Apr.1998 E/N 799mil.yen).</p> <p>*1)Metropolitan area consisted of 15 municipalities including Asuncion City when this Study was conducted. After reorganizing the administrative district, the present metropolitan area consists of 23 municipalities including Asuncion City.</p> <p>2)It was proposed that a new disposal treatment facility would be constructed in Chaco-I. However, the substitute site is presently under selection since the policy has changed.</p>				

PRY/S 203/94

293

<b>COUNTRY</b>	Paraguay	<b>NAME OF STUDY</b>	Cooperation Program for the Small Scale Agriculture		
<b>TYPE OF STUDY</b>	M/P	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	(Agriculture in) General
<b>OBJECTIVES OF STUDY</b>	To formulate the M/P for the comprehensive Cooperation Program for the Small Scale Agriculture for small-scale farmers in the Eastern Area (160,000 km <sup>2</sup> ), considering crop diversification, poverty alleviation, and environmental conservation.				
<b>MAJOR PROPOSED PROJECT(S)</b>	Projects for 1)the efficient use of farmland; 2)the efficient use of settlement land; 3)irrigation facilities in dry fields; 4)agricultural dev. with consideration of environment; 5)soil improvement and cotton cropping development; 6)fruits producing estate development; 7)demonstration of farmland conservation; 8)promotion of suburban dairy farming, other 4 projects.				
<b>PRESENT STATUS</b>	In Progress or In Use	<b>TECHNICAL TRANSFER</b>	Counterpart training; Seminar		
<b>DESCRIPTION</b>	<p>Finance: Japan's ODA Loan (Aug.1998 L/A 15,525mil.yen).</p> <p>*Contents: 1)Development of infrastructure (rural road, irrigation, drinking water, etc.).</p> <p>2)Development loan for small/medium-size farmers through the local banking systems such as BNF, CAH, FDC (two-step loan).</p>				

PRY/A 107/96

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<b>COUNTRY</b>	Paraguay	<b>NAME OF STUDY</b>	Arterial Road Development Project		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Road
<b>OBJECTIVES OF STUDY</b>	To conduct the F/S for an arterial road which is to put the highest priority, according to the results of the M/P on the Comprehensive Transportation Project Study in Paraguay.				
<b>MAJOR PROPOSED PROJECT(S)</b>	Construction works of the road of Asuncion - Vijari (83km) and the branch road to La Cormena (38.1km).				
<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>	OJT		
<b>DESCRIPTION</b>	<p>Finance: Japan's ODA Loan (Aug.1998 L/A 19,428mil.yen).</p> <p>Construction: Dec.1999 ~ 2003.</p> <p>Japanese technical cooperation:</p> <p>Acceptance of four trainees (Feb.1996 - Nov.1998).</p> <p>Dispatch of a JICA expert (Jan.1996 - Jan.1998).</p>				

PRY/S 314/96

295

<b>COUNTRY</b>	Uruguay	<b>NAME OF STUDY</b>	Development Plan of the International Airport of Carrasco			
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1989	<b>SECTOR</b>	Air Transportation & Airport	
<b>OBJECTIVES OF STUDY</b>	Improvement of runway, taxiways and apron. Renewal or upgrading of navigation facilities.					
<b>MAJOR PROPOSED PROJECT(S)</b>	1.Improvement of main runway, taxiway and apron. 2.Improvement/extension of secondary runway. 3.Renewal of navigation facilities. 4.Installation of terminal equipment such as metal detector.					
<b>PRESENT STATUS</b>	Delayed or Suspended	<b>TECHNICAL TRANSFER</b>	OJT			
<b>DESCRIPTION</b>	The projects proposed by this Study were cancelled since SEA Technical SPA, the management body of Milan Airport, is to undertake the modernization and expansion project of the Carrasco Airport based on M/P formulated with the UNDP fund.					

URY/S 301/89

296

<b>COUNTRY</b>	Uruguay	<b>NAME OF STUDY</b>	National Reforestation Plan			
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1990	<b>SECTOR</b>	Forestry & Forest Conservation	
<b>OBJECTIVES OF STUDY</b>	To make an implementation plan on national five-year plan of tree planting and to execute the F/S of the plan.					
<b>MAJOR PROPOSED PROJECT(S)</b>	Reforestation of some 100,000ha during five years, by planting eucalypti, pines, poplars and willows.					
<b>PRESENT STATUS</b>	Completed	<b>TECHNICAL TRANSFER</b>	OJT, Seminar			
<b>DESCRIPTION</b>	Finance: World Bank, Own fund, Private fund. Present situation: The total of 373,376ha was reforested during 1989 and 1998. Effects: Supply of the timber has been increased. The project for examination of forest products is planned to be started in 1998. Japanese technical cooperation: Project-type technical cooperation is to be implemented.					

URY/A 301/90



297	<b>COUNTRY</b>	Uruguay	<b>NAME OF STUDY</b>	Development of New Port Terminals at Montevideo Port		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1992	<b>SECTOR</b>	Port
	<b>OBJECTIVES OF STUDY</b>	To prepare a F/S of the short-term development plan for main port facilities in Montevideo Port for the target year of 1998.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1. Development of grain terminal. 2. Development of foreign fishing terminal.				
	<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>	It seems that M/P review study was conducted.				

URY/S 302/92

298	<b>COUNTRY</b>	Papua New Guinea	<b>NAME OF STUDY</b>	Rural Telecommunication Development Plan in Papua New Guinea		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1989	<b>SECTOR</b>	Telecommunication
	<b>OBJECTIVES OF STUDY</b>	1) Nationwide Rural Telecommunication Development Plan by year of 1997. 2) Initial Plan to selected areas which have priority.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Installation of 783 telephone lines of public phones to 374 villages where radio telecommunication systems are applicable. The entire project will be divided into 5 phases (Phase I; 75 telephone lines will be installed in 40 villages of 3 provinces which have the most priority).				
	<b>PRESENT STATUS</b>	Discontinued or Cancelled	<b>TECHNICAL TRANSFER</b>	Counterpart training		
	<b>DESCRIPTION</b>	Reasons for discontinued/cancelled: The priority of this project has lowered due to the change in the development policy on communications network and the recent high priority over schools, hospitals, and roads, etc. Technological innovation in telecommunication in 1990's has made the ten-year old project concept obsolete and irrelevant.				

PNG/S 301/89

299	<b>COUNTRY</b>	Papua New Guinea	<b>NAME OF STUDY</b>	Detailed Design on Road Construction Project in Bereina-Malalaua		
	<b>TYPE OF STUDY</b>	D/D	<b>STUDY COMPLETION YEAR</b>	1989	<b>SECTOR</b>	Road
	<b>OBJECTIVES OF STUDY</b>	Road Construction.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Construction work of 80km road. Construction will be divided into 2 sections. Lot 1: 33.5km (excavation & embankment volume: 1,570,000m <sup>3</sup> , 3 bridges). Lot 2: 47.1km (excavation & embankment volume: 12,000,000m <sup>3</sup> , sand mat: 170,000m <sup>3</sup> , 6 bridges).				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>	<p>The project was implemented with Japan's ODA Loan.</p> <p>Finance: Japan's ODA Loan (Mar.1991 L/A 4,691mil.yen, 5,461mil.yen). Construction: May 1995-May 2000 (scheduled). Lot 1 of the highway was completed in 1999. Construction of the Lot 2 is on schedule.</p>				

PNG/S 401/89

300	<b>COUNTRY</b>	Papua New Guinea	<b>NAME OF STUDY</b>	Tokua Airport Development Project		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Air Transportation & Airport
	<b>OBJECTIVES OF STUDY</b>	To develop Tokua Airport as the substitute of existing Rabaul Airport in order to avoid the danger of volcanic eruptions.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Development of Tokua Airport (new Rabaul Airport).				
	<b>PRESENT STATUS</b>	Completed	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	<p>Subsequent study: D/D was implemented by Japan's grant aid (Feb.-Sep.1996, 60mil.yen). Finance: Japan's grant aid (Jun.1996 E/N 2,537mil.yen). Construction: Nov.1996-Mar.1998. A runway started its operation in Sep.1997. The airport started in full operation in March 1998.</p>				

PNG/S 302/91

301	<b>COUNTRY</b>	Papua New Guinea	<b>NAME OF STUDY</b>	Port Moresby Water Supply Development Plan		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1993	<b>SECTOR</b>	Water Supply
	<b>OBJECTIVES OF STUDY</b>	Formulation of M/P and F/S on the water supply system, and further basic study on the immediate remedial measures.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	F/S: 1.Intake weir & transmission pipe. 2.Construction of distribution reservoir. 3.Construction of Mt. Eriama pump station/treatment plant. 4.Construction of Ninemile Treatment Plant. B/D: Transmission pipe development.				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT		
	<b>DESCRIPTION</b>	<p>1. Emergency pipeline Subsequent study: D/D was implemented (May-Oct.1994). Finance: Japan's grant aid (Oct.1994 E/N 1,544mil.yen). Construction: completed (Mar.1996). Effects: Water supply toward coastal area has increased.</p> <p>2. Mt. Eriama Plant &amp; Ninemile Plant Finance: BOT is under consideration.</p> <p>3. Bomana Pump Station Finance: Japan's grant aid (Feb.1996 E/N 1,000mil.yen). Construction: completed in 1998.</p>				

PNG/S 217/93

302	<b>COUNTRY</b>	Solomon Islands	<b>NAME OF STUDY</b>	Development Project of Henderson International Airport		
	<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1991	<b>SECTOR</b>	Air Transportation & Airport
	<b>OBJECTIVES OF STUDY</b>	Preparation of M/P and F/S on the short-term development project.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Civil works: runway strengthening, apron development of apron & GSE road, etc. 2.Architectural works: construction of passenger terminal building & fire station garage, etc. 3.Aviation safety facilities: development of radio system, navigation control system, etc. 4.Municipal service facilities: development of fuel depots, electric power facilities, etc.				
	<b>PRESENT STATUS</b>	Partially Completed	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>	<p>Subsequent study: D/D by Japan's grant aid (1995 E/N 79mil.yen). Finance: Japan's grant aid (Jun.1996 E/N 1,826mil.yen). *Contents: passenger terminal construction, apron &amp; taxiway establishment, parking lot establishment, electricity supply facilities development. Construction: Nov.1996-Dec.1998(completed) Remaining proposed projects: runway strengthening, communication equipment, navigational aid, new control tower. B/D will be implemented in Jul.1999-Feb.2000 for the remaining proposed projects. Japan's technical cooperation: Acceptance of a trainee (aeronautical engineering/Aug.-Oct.1998).</p>				

SLB/S 302/91

303

<b>COUNTRY</b>	Romania	<b>NAME OF STUDY</b>	Solid Waste Management System for Bucharest Municipality			
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	Urban Sanitation	
<b>OBJECTIVES OF STUDY</b>	Formulation of an Urban Waste Control Improvement Plan.					
<b>MAJOR PROPOSED PROJECT(S)</b>	1.Construction of 3 reclamation disposal plants (in Balaceanca, Cretuleasca, Glina). 2.Installation of water supply (deep well) and pipes for the above surrounding villages.					
<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training, Seminar			
<b>DESCRIPTION</b>	<p>1.Glina reclamation disposal plant construction  Subsequent study: Review study by own fund (Sep.1997-Mar.1998).  Finance: A request for Japan's ODA Loan was submitted.</p>					

ROM/S 201/95

304

<b>COUNTRY</b>	Romania	<b>NAME OF STUDY</b>	Irrigation Project in Ruginesti-Pufesti-Panciu District Vrancea			
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1995	<b>SECTOR</b>	(Agriculture in) General	
<b>OBJECTIVES OF STUDY</b>	Formulation of a F/S on Irrigation Improvement Project in the target area as well as Agriculture Development Project (including soil preservation).					
<b>MAJOR PROPOSED PROJECT(S)</b>	1.Irrigation facility development. 2.Drainage facility development. 3.Soil preservation facility development. 4.Road improvement. 5.Other development.					
<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training			
<b>DESCRIPTION</b>	<p>1.Trunk canals construction  Construction: implementing by own fund on a small scale.</p>					

ROM/A 301/95

305

<b>COUNTRY</b>	Kazakhstan	<b>NAME OF STUDY</b>	Air Transportation Development			
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Air Transportation & Airport	
<b>OBJECTIVES OF STUDY</b>	To formulate the comprehensive air transportation development plan. To conduct the F/S for the higher priority projects in the plan.					
<b>MAJOR PROPOSED PROJECT(S)</b>	F/S: 1.Akmola Airport Development Project. 2.Almaty Airport Development Project. 3.Aktau Airport Development Project. 4.Aktyubinsk Airport Development Project. 5.Atyrau Airport Development Project. 6.Pavlodar Airport Development Project.					
<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>	Counterpart training			
<b>DESCRIPTION</b>						
<p>1.Akmola (Astana) Airport Development Project  Finance: Japan's ODA Loan (Dec.1998 L/A 22,122mil.yen).  Construction: 1998 ~ 2004, The required procedure for concluding consultant contract is taken.  *Akmola City, which is the capital of Kazakhstan, changed its name to Astana in 1998.</p>						

KZK/S 221/96

306

<b>COUNTRY</b>	Kazakhstan	<b>NAME OF STUDY</b>	Road Network in Western Kazakhstan			
<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Road	
<b>OBJECTIVES OF STUDY</b>	1)To formulate the strategy for the road network development in West Kazakhstan Area. 2)To conduct the F/S for the higher priority roads.					
<b>MAJOR PROPOSED PROJECT(S)</b>	F/S: 1.Kzyl Orda Border-Irgiz Road Improvement. 2.Irgiz-Karabutak Road Improvement. 3.Mahambet-Atyrau Road Improvement.					
<b>PRESENT STATUS</b>	Processing	<b>TECHNICAL TRANSFER</b>	OJT			
<b>DESCRIPTION</b>						
<p>Subsequent study: SAPROF (Jun. ~ Sep. 1999).  Finance: Japan's ODA loan was pledged in Dec. 1999.</p>						

KZK/S 222/96

307	<b>COUNTRY</b>	Kazakhstan	<b>NAME OF STUDY</b>	Kzyl-Orda Irrigation/Drainage and Water Management Improvement Project		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1997	<b>SECTOR</b>	(Agriculture in) General
	<b>OBJECTIVES OF STUDY</b>	To undertake a F/S 1)to improve productivity through improvement of irrigation/drainage, water management system and farming in the area irrigated by a left canal extended from the Kzyl-Orda intake weir; and 2)to contribute to environment improvement with sufficient water to the Aral Sea.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	Site area: Kzyl-Orda Left Bank area (80,000ha) 1.Main irrigation & drainage facilities rehabilitation. 2.On-farm development & drainage facilities development. 3.Rural infrastructure development. 4.Installation of post-harvest facilities.				
	<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
	<b>DESCRIPTION</b>	<p>1.Kzul-Orda irrigation headworks intake structure rehabilitation Finance: Request for Japan's grand aid was submitted.</p> <p>2.The projects for improvement of the irrigation system in the Kzul-Order, which include irrigation &amp; drainage rehabilitation and rural infrastructure development, are included in the Middle/Long-Term National Development Plan.</p>				

KZK/A 223/97

308	<b>COUNTRY</b>	Uzbekistan	<b>NAME OF STUDY</b>	Water Supply Systems in Six Cities of the Aral Sea Region		
	<b>TYPE OF STUDY</b>	M/P+F/S	<b>STUDY COMPLETION YEAR</b>	1996	<b>SECTOR</b>	Water Supply
	<b>OBJECTIVES OF STUDY</b>	To formulate the basic water supply plan and conduct a F/S to improve the operation of the water supply system and the quality of drinking water in the 6 cities of the Aral Sea Region.				
	<b>MAJOR PROPOSED PROJECT(S)</b>	1.Expansion of Tuyamuyun-Nukus and Urgench water supply system. 2.Rehabilitation of rural water purification plant. 3.Development of water supply/distribution system.				
	<b>PRESENT STATUS</b>	Implementing	<b>TECHNICAL TRANSFER</b>	Counterpart training		
	<b>DESCRIPTION</b>	<p>1.Rehabilitation and expansion of Tuyamuyun-Nukus and Tuyamuyun-Urgench water supply system Finance: Own fund. Construction: implementing.</p> <p>2.Construction of Kaparas intake pumping station &amp; pipeline Finance: Own fund. Construction: implementing.</p>				

UZB/S 223/96

309

<b>COUNTRY</b>	Uzbekistan	<b>NAME OF STUDY</b>	Construction of Electric Locomotive Repair Workshop		
<b>TYPE OF STUDY</b>	F/S	<b>STUDY COMPLETION YEAR</b>	1997	<b>SECTOR</b>	Railway
<b>OBJECTIVES OF STUDY</b>	Formulation of a F/S for construction of electric locomotive repair workshop to correspond to the future demand.				
<b>MAJOR PROPOSED PROJECT(S)</b>	Preposition on development of electric locomotive and its repair workshop in order to correspond to the increase of the users in 2010. The construction of the workshop is intended by the year of 2001. Priority plan: Overhaul of EL and EC will be conducted in the workshop.				
<b>PRESENT STATUS</b>	Promoting	<b>TECHNICAL TRANSFER</b>	OJT, Counterpart training		
<b>DESCRIPTION</b>	<p>The development of infrastructure of transportation is essential to the country's future development. Subsequent study: F/S review in Aug. 1999 (UTJ fund, 3,000,000 Uzbek sums). It made financial and technical analysis and considered the purchase of four new locomotives.</p>				

UZB/S 305/97