CSA GTM/S 501/86			Revised Mar. 1996
I. OUTLIN	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
1.COUNTRY 2.NAME OF STUDY Ground Water Deve	Guatemala lopment Project	LSITE OR AREA Gratemala City, surrounding Guatemala City valley and adjacent northeastern area	LPRESENT STATUS In Progress or In Use Delayed Discontinued
de Guatemala) 7.OBJECTIVES OF STUD	Basic Study CY Cipal de Agua de la Ciudad	Total Cost Local Cost Foreign Cost	(Description) Dec. 1990 ETH of OECF loan 44,711 million yen) Har. 1991 ETH of Decr loan 44,711 million yen) Har. 1991 ETH of Esigned because of the delay in formal sprowal at the Parliament Jun. 1992 Occasionation of St. 1992 Occasionation OECF LFA signed-dealed to begin OECF LFA signed-dealed to end OECF LFA signed-dealed OECF LFA signed-dealed
8.DATE OF SAV	1984/12		(FY1995 Domestic Survey) Consulting work was started on 19th Sept.1994. (by Chuo Naiharsa International Cop.)
9.CONSULTANT(S) Chuo Kaihatsu Interna	tional Corp.	4.CONDITIONS AND DEVELOPMENT IMPACTS Direct benefit is the qualitative and quantitative improvement of LEMPAGN's service. Indirect effects include (i)improved sanitation through clean water supply; (ilipreduced labor burden for women and children heretefore forced to carry water over long distances; and (iii) expanded employment opportunities through project related construction.	[FY1995 Overseas Survey] By means of the fund from OELF, it becomes available to implerent the results of this basic study.
	8 Sep.1986(15 months)		
Total M/M 50.11 ILASSOCIATED AND/O SUBCONTRACTED SIL Geological Survey and	Japan Pield 17.44 32.67 R		2.MAJOR REASONS FOR PRESENT STATUS
12 EXPENDITURE Total Contracted	311,081 (¥000) 241,154	S.TECHNICAL TRANSFER 1) Counterpart OJT on the analysis of sercehotos, etc. 2) Training in Japan in F/S methodology	3.PRINCIPAL SOURCE OF INFORMATION (i), (ii), (iii), (iii)

CSA GTM/A 301/88			Revised Mar.1996
	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
LCOUNTRY	Guatemala	1.SITE OR AREA	LPRESENT Completed or in Progress Promoting STATUS Completed
2.NAME OF STUDY Monjas Irrigation] Project	Jalepa, Monjas (Area 7,100ha, population 14,130, 150km from the capital) 2 PROJECT COST	O Partially Completed [] Delayed or Suspended O Implementing O Processing [] Discontinued or Cancelled (Description)
3.SECTOR Agriculture/(Agricultur	e in)General	3.CONTENTS OF MAJOR PROJECT(S) 1rrigation area: 4,800 ha	In view of the high priority of the proposed project, the Gowernment of Gusteania applied for Japanese Grant Aid in March 1989, but it was not successful due to huge project cost of \$46.9 mil.
4.REFERENCE NO. 5.TYPE OF STUDY	F/S	Reservoir : Main dam: Height 49m Length 1,072m, capacity 2.61MCM Sub dam : Height 31m Head work : Water Intake 4.3cu.m/s	(FY1991 Overses Survey) The ministry assigns high priority to the proposed project and plans to revive the request for Japanese Grant Aid in 1992.
6.COUNTERPART AGENC Ministerio de Agricult Alimentacion 7.OBJECTIVES OF STUDY	resource development and	Driving canal: 8.0 cu.m/s 9.5km Diversion canal: South 3.28cu. m/sec 8km North 2.29cu.m/sec 15.2km Main canal: 1.526 cu.m/sec 18km Latenal canal: 0.338 cu.m/sec 39km Regulating pond 3 units * The cost is estimated in Oct. 1587 prices.	FY1939 Overseas Survey) Friority of the project is stil ranked high and is the pot priority project among agricultural gprojects of Guatemalan government. The agency considers that project cost of Dyodynda is all of the agency considers that project cost of Dyodynda is all of the agency considers that project cost of Dyodynda is all of the agency considers that the project cost of Dyodynda is all of the consideration of the project cost. The agency is still planning to apply grant aid and loan aid for the implementation of the project. FY1934 Demestic Survey) According to the result of project cost review by JICA experts, the cotal cost of the project was 63 million US dellar. The government of cotal cost of the project was 63 million US dellar. The government of
oseveropment in sonjas			Quaremala basn't decided to implement the project. Due to change of laws, environmental assement study is required before the implementation of the project. The DIRYA has completed the environmental assement study.
8.DATE OF S/W	1987/2	Imp. Period: 1989.4-1995.9	(FY1995 Domestic Survey) No additional information.
9.CONSULTANT(S) Pacific Consultants Inc.		4FEASIBILITY AND ITS ASSUMPTIONS Feasibility: EIRR1) 18.50 HRR1) 6.20 HRR2) EIRR2) HRR2) EIRR3 HRR2) EIRR3 HRR2) EIRR3 EIRR3	
10.STUDY TEAM		Development Impact: The visible benefit of this project is the increase in agricultural production. The annual profits will be 20,000.0000 when the planned output is realized.	
	11 Jul.1988(13 months)	The following social economic effects may also be expected: Contribution to national development plan, acquisition of foreign currency, stable supply of food, increase in employment opportunities, inproved living standards, improved distribution and processing of agricultural products, correcting regional differences, tourism and economic stimulus.	
Fotal M/M 61.01	Japan Field 21.50 39.51	correcting regional differences, tourism and economic stimulus.	2.MAJOR REASONS FOR PRESENT STATUS
HASSOCIATED AND/OF SUBCONTRACTED STU Survey, geological sur Installation of hydrog	DY vey, sample analysis,	5 TECHNICAL TRANSFER	
12.FXPENDITURE Total Contracted	201,930 (¥'000) 179,719	1.Acceptance of trainees(2)	3.PRINCIPAL SOURCE OF INFORMATION 0. ② ③
L			(F/S.D/D)

CSA G 13//5 301/88	The state of the s	
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY 2.NAME.OF STUDY Development Project of the Port of Santo Tomas de Castilla	I.SITE OR AREA	
3.SECTOR Transportation/Fort 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Port of Santo Tomas Authority 7.OBJECTIVES OF STUDY Formulation of Stage III development plan	3) 3.CONIENTS OF MAJOR PROJECTIS) - short ferm Plan (Target year: 1995) 1) A container terminal - thir thir third project of the plant	(Description) (Prijos) overeas Survey; The report of the EMPOFANC. The project is considered high priority, and will be revived in the future. (Prijos) overeas survey; (P
8.DATE OF SAV 1986/12	Imp. Period: 19921994.	(FY1994 Domestic Survey) (FY1995 Domestic Survey) No additional information.
9.CONSULTANT(S) Overseas Coastal Area Development Institutation	4-FEASIBILITY AND Feasibility: EIRRI 23.40 FIRRI 7.	30 (FY1995 Overseas Survey) Now it is implementing in order to complete on Dec., 1997. Total construction cost is 525 million Q including the 45 million Q of the forign cost.
10.STUDY TEAM No.of Members 10 Period May.1987-Jul.1988(9.5 more)	Conditions and Development Impacts: Development Epacts: Development Epacts: Of waiting Development Epacts: Of waiting Development Epacts: Developm	DILLS GV
Total M/M Japan 47.85 24.33 ILASSOCIATED AND/OR SUBCONTRACTED STUDY Soll Test and Topographic Survey were cal	Picld	2.MAJOR REASONS FOR PRESENT STATUS
by local consultants. 12.EXPENDITURE 158,21	S.TECHNICAL TRANSPER Participation of counterparts in the JICA training program 11 (W'000) 18	3.PRINCIPAL SOURCE OF INFORMATION (5. (8. (9)

C3A O 1 M/3 302/07		
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY Guatemala 2.NAME.OF.STUDY Development Project of La Aurora and Santa Elena Airports	LSITE OR AREA La Aurora airport in Guatemala city and St. Elena airport in Feten City	LPRESENT STATUS Completed or in Progress Completed Partially Completed Implementing Processing Discontinued or Cancelled
3.SECTOR Transportation/Air Transportation & Airport 4.REFERENCE NO. 5.TYPE OF STUDY P/S 6.COUNTERPART AGENCY Direction General de Aerondutica Civil (AGDC) 7.OBJECTIVES OF STUDY Transportation of La Aurora and Santa Elena airports	SCONTENTS OF MAJOR PROJECTIS) [Energency Programs] [Fenoration of tadar systems including installation of ASP/SSR equipment renovation of CRR facilities at La Aurora. Renovation of Secondary power system at Santa Elena. (Short-term Development) [1] Improvement of runway, taxiway and apron. [2] Improvement of distingue and other intrastictures. [3] Improvement of avaisation support facilities, including visual navaids. [4] Improvement of avaisation support facilities, including visual navaids. [5] Improvement of avaisation support facilities. [5] Improvement of avaisation support facilities. [6] Solve Cost 1] is for La Aurora Airport and Cost 2) for Santa-Elena Airport.	(Description) A definite schedule of implementation is not yet decided due to political and financial reasons. (FF193) Overseas Survey) The DOK restudied the proposed project and formulated a new that the project and constituted on the schedule of its implementation due to political and economic reasons (FF193) Overseas Survey) Tox extempted to request an OECF loan for, the short-team development program, but the Ministry of Finance turned it down because of the high project cost, and no further development in program, but the Ministry of Finance turned it down because of the high project cost, and no further development along this line parity due to the policy change that places more 1) The GOG made a request for a 1000mil.yen Japanese Grant on the renovation of CFR facilities in 1990, but it has not been realized. Although studies were conducted by two Restern Electronics in Feb. 1994, DOAC has concluded that the project is too large (910 mil. to 15 mil.) to be carried out with demestic fund. System and VMF telecomemication of the control tower has been implicated with domestic fund.
8.DATE OF SAV 1988/8	Imp. Period: 19911993.	(FY1994 Domestic Survey) No progress.
9.CONSULTANT(S) Nigon Yool Co., Ltd. IO.STUDY TEAM No.of Members 8 Period Jan.1989-Feb.1990(14 months)	4FEASIBILITY AND ITS ASSUMPTIONS Feasibility: FIRR) 50.00 FIRRI) 16.00 FIRRI) FIRR2) FIRR2) FIRR3 FIRRI) 16.00 FIRRI) FIRRI) Conditions and Development Impacts: 1.70 improve safety and operational capacity by improvement of runway. 1.70 improve safety and operational efficiency by drainage and other intrastructures improvement affectives and seet traffic demand by improvement of testinals biolidings 1.70 prevent a near-miss by the improvement of navigation aid facilities 1.70 prevent a near-miss by the improvement of navigation aid facilities 1.70 prevent and operational efficiency by improvement of electric supply and other airport supporting facilities	(FY1995 Domestic Survey) 10 additional information. (FY1995 Overseas Survey) been signed with COGUGA co. for expansion, A contract agreement his terestnal building. Movever, due to the rapid increase of demands, the cost estimation is not cone out as yet. Various facilities are provided already, but the periods of installation are not fixed because of the lack of infrastracture consecutive. 10 periods of the successful bidder. Not only the nothods suggested by JICA, but some other convenient methods are considered to apply on this project.
Total M/M Japan Field 46,72 27,65 19.0 ILASSOCIATED AND/OR SUBCONTRACTED STUDY None	5.TECHNICAL TRANSPER	2.MAJOR REASONS FOR PRESENT STATUS As described above. 3.PRINCIPAL SOURCE OF INFORMATION
Total 180,576 (¥000) Contracted 169,031	OVT during field survey periods, and training of 2 counterpart engineers invited by JICA and JTCA	(I. (I. (I)

Revised Mar. 1996

C2V (11/1/2 101/21							
I. OUTLINI	E OF STUDY	II. SU	IMMARY OF STUDY	RESULTS	III. PRES	SENT STATUS OF STUD	Y RESULTS
LCOUNTRY 2.NAME OF STUDY Comprehensive Urba	Guatemala n Transportation		Guatemală Metropolitan Area S	137 sq.km	1.PRESENT STATUS	In Progress or In U ☐ Delayed ☐ Discontinued	Jse
	a Metropolitan Area	2.PROJECT COST (US\$1,000)	Total Cost Lo	ocal Cost Foreign Cost 295,600 181,800	(Description) (1993 Oversess Out of the 3 by 2010, seven been requested	I projects proposed in the study were selected, for which a feat	to be implemented to the implementation to the implementation of t
3.SECTOR Transportation/Urban	Transportation	3.CONTENTS OF MAJO			The following	three out of 14 projects inclu her completed or under implement mprovement for 5 districts (budg	ation:
4.REFERENCE NO. 5.TYPE OF STUDY M/P 6.COUNTERPART AGENCY Gusterala Municipality		a): Bus stop developmen Devement marking de 2) Phase II (Short Ter a): East-West corridor c) Ave: Fetapa Improve intersectio improvement q) Trafic control syst ii) Pedestrian mall de	tb b) Bus lane development syvelopment e) Side walk de- im Projects) development b) Preriferico ment d) 15 Avo. Improvement t f) Busway (Ciudod Pal to tem development h) Parking	reicpment tramo development e) A part of Zona 4) development card system development	constructio improvement bet 1/94-1 improvement two years f A part (3 km projects, is s	n bet. 9/91-4/94) of 250 bus stops (budget Q300 2/94) of road signs (budget Q700,000;	mil.; construction construction period of the four mid-term rom November 1994 with City of Gustemala.
TOBJECTIVES OF STUDY TO formulate a Master urban transportation s Metropolitan Area.	Plan on the comprehensive	improvement c) Bus way development e) Extra-Urban bus ter g) Trafic control syst 4) Long term Project a) Outer ring road development c) Inner	Hixco to Centro) d) Bus mainal f) Bus inspection or cem development h) Traffic velopment b) Northern part ring road inprovement d) ment f) 13 Ave, 63 Ave, ar ovement h) Bus way (Villa Mevelopment j) Car parking	center Zona 4 improvement enter construction safety park development of the middle ring road CA-9 (South) improvement 4 35 Ave. improvement	amongst the 13 Regarding the submitted to ch Police Developm (FY1994 Domest No additiona (FY1995 Domest	long-team protects, is on-going in growenest of the traffic contribute to the contribute of traffic cent to the City. Ic Survey of information. Ic Survey of the contribute of traffic contribute of traffic contribute of traffic contribute of the	control from the
8.DATE OF S/W	1989/11				Petapa, busways	, bus centers for each zone, en	ctra-urpan bus terminal
110101 11111111111		EIRR for the project the benefit of vehicle	(South) 33.4 11.9 16.9 40.7 47.6	h ratio of 45.5% with a passenger time savings.	been despatched survey has been	, signed S/W on April. 1994. ar n planned to commence on 1st Se	preser.
Total M/M	Japan Field				2.MAJOR REA	SONS FOR PRESENT STATUS	
73.00 II.ASSOCIATED AND/OF SUBCONTRACTED STU	6.00 67.00						
12 EXPENDITURE Total Contracted	390,260 (¥'000) 329,276	5.TECHNICAL TRANS	SPER conterpart training, and hold	ling a seminar.	3.PRINCIPAL S	SOURCE OF INFORMATION	
						11.470	Daria Curty Other)

CSA GTM/S 202B/91		Revised Mar. 1996
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY Guatemala 2.NAME.OF.STUDY Solid Waste Management in Metropolitan Area of Guatemala City	LSITE OR AREA	I.PRESENT STATUS Completed or in Progress ☐ Promoting Completed Partially Completed ☐ Delayed or Suspended Implementing Processing ☐ Discontinued or Cancelled
3.SECTOR Public Utilities/Urban Sanitation 4.REFERENCE NO. 5.TYPE OF STUDY M/P+F/S 6.COUNTERPART AGENCY Public Service Bureau (DSP), Municipal Public Cleaning Department (DLFM)	3) 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	(Description) (P) (Description) (P) (193) Consentic Survey) (P) (193) Consentic Survey) (P) (193) Consentic Survey) (P)
area of Guatemata City -To determine the possibility of the implementation of some first priority projects which must be achieved by 1995 at the latest. 8.DATE OF S/W 1989/11 9.CONSULTANT(S)	- Personnel training program - Recycling and resource recovery program - Institutional organizations the population:1.841.000) Insprovement of collection service in marginal areas/expression to container collection and equipment management: Expression to container collection and equipment management: Expression to organize the provement of collection service in Isolated areasy in operation improvement of collection service in Isolated areasy in provement of final disposal sites: EX Trebol landfill(existing) and a new sanitary landfill in las Guacanayas - Norking group and service in the program of the progr	instruction in the prefer to design were diven by expects for 10 days and 2 days respectively. The central vehicle maintenance factory which handles protection and maintenance of vehicles and heavy machines, electric circuit and lathe-procession of repair patts has been set us the machines has been much introved. Constant supply of parts, under this grant project, is expected to improve operation of the vehicles and machines considerably. (Files) overseas Survey. Files Trebol Landfill:Mar. 1999 Japanese Grant EVN J09 millin yenths grant provided necessary equipment for the landfill. Outsteads City is preparing four truck slopes, two office buildings. Now. the landfill is collecting garkages from all public area and Now. the landfill is collecting garkages from all public area
CRC Research Institute, Inc. Environmental Technologic Consultants Co., Ltd.	Imp. Period: 19911996.	most do-eatic area. 15 Outpacement Landillisand acquisition trouble caused this project 15 Outpacement Landillisand acquisition trouble caused this project 15 Privatilation of Garbage Collection: The project was once 16 Implemented Dust it is unsuccessful. Floowing step is not decided now 16 Improval System for Garbage Collection: The City Introduced approval 17 Periodical Inspection and area restriction.
70.88 24.40 46.48 II.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Conditions and Development Impacts: Planning Conditions: 1) Set of Conditions: 1) Set of Conditions: 1) Set of Conditions: 1) Set of Conditions: 1) Notice of Conditions o	- Sanitary Educationivideo software provided by JICA was useful to enlighten adults and pupiles. Almost 259 thousand persons already have seen it. Hetropolitan Garbaye Committee:Established. However, unsuccessful function brought the Committee to discontinuo. The City established working of bulbic Chemical Policy Condition. The City established Maylsory Condition. The Department will be restructured in 1935. 2.MAJOR REASONS FOR PRESENT STATUS For the D/D has been completed or in progress.
TELECTRO S.A. Iboring, reasurLng AcERON AGRICALAS INDUSTRIALES S.A. (construction of containers)	S.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION ①. ③

CSA GINIA 101/92			
I. OUTLINI	3 OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
1.COUNTRY 2.NAME OF STUDY Integrated Agricul	Guatemala tural and Rural	LSITE OR AREA Department of Juliapa	1.PRESENT STATUS ☐ In Progress or in Use ☐ Delayed ☐ Discontinued
Development Projec	t in Jutiapa	2.PROJECT COST Total Cost Local Cost Foreign Cost (US\$1,000) 61,300	(Description) (FY199) Overseas Survey) Application for the Grant Aid was made in Sept. 1991 for the
3.SECTOR Agriculture/Agriculture sniGeneral 4.REFERENCE NO.		2) 26, 358 3.CONTENTS OF MAJOR PROJECT(S) Project cost 1) is of total projects 2) is of high priority projects.	implementation to street marketine that integrated Bural Development implementation to state any street which make the market Beaucogness treet and the street and treatment are the project is desinged to utilize existing facilities and low project cost. The agency is negociating with SEGEPLAN for the implementation of Montufar project.
5.TYPE OF STUDY	M/P		
6.COUNTERPART AGENC Ministry of Agricultur (MAGA), Sectorial Unit Planning (USPADA)	Y Livestock and Food	In the Mister Plan Study, a total of 12 project have been formulated, of which the Santa Cataring Mita Integrated Rural Development Project and In Moustar Integrated Rural Development Project have been identified as high of Santa Catarina Mita Integrated Rural Development Project: The Project consists of irigation plan (rehabilitation and construction of pumping station). xural roads k rural water supply development plan and other component.	No additional information.
7.OBJECTIVES OF STUDY To carry out Master Pl Rural and Agricultural Jutiapa, which is loca limit of Guatemala	an Study on the Integr	Muntufar Integrated Rural Development Project: The Project consists of irrigation plan (2,400ha) drainage plan (1,065ha), ted rural road and rural water supply development plan.	
8.DATE OF SAV	1991/11		
9.CONSULTANT(S)		4.CONDITIONS AND DEVELOPMENT IMPACTS	
Pacific Consultants In	ternational	The Economic Internal Rate of Return (EIFR) was calculated as 15.7% for the Santa Catarina Mita Project and 27.6% for the Montag for Project. Benefits to be expected by the implementation of the Projects are: - Stabilization of farm economy, expansion of exports, improvement in employment. - Participation of local inhibitants in marketing sector, generation of Participation of Local inhibitants in marketing sector, generation of Mitigation of Water intake work among women and children, improvement of sanitary environment	
10.STUDY TEAM			
No.of Members	10		
Period Mar. 1992-1	Dec.1992(10 months		
			2.MAJOR REASONS FOR PRESENT STATUS
Total M/M	Japan	ield	Z.MAJOR REAGONSTOR I RESENT STATES
51.60	22.10 2	.50	
II.ASSOCIATED AND/OF SUBCONTRACTED STU Soil Analysis			
		5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION
Total Contracted	155,890 (176,645	The state of the s	0. 0

CSA HND/A 301/78			<u> </u>
I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY 2.NAME OF STUDY Agricultural Devel Choluteca River Ba		LSITE OR AREA	I.PRESENT Completed or in Progress Promoting STATUS Completed Partially Completed Delayed or Suspended Implementing Processing Discontinued or Cancelled
3.SECTOR Agriculture/(Agriculture 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENC Ministry of Natural Rec	F/S	3) 3.CONTENTS OF MAJOR PROJECTIS) 1.San Fernando Dam : concrete gravity dam, Meight of dam 93.5m 2.frrigation Areainet; 16.000 Aniene 14,370ha, existing pumping 1,630ha) 3.frrigation Facilities 1.free 1.fr	(Description) The feasibility study was updated by JCA in 1984. Detailed to feasibility study was updated by JCA in 1984. Detailed to feasible the development of the fooduras applied in Mar. 1987 for an OECF loan to implement the project, but did not get the approval. IfFI)991 Overseas Survey) Official and unofficial requests for an OECF loan have been made repeatedly but with no avail (FFI)993 Overseas Survey) Six(6) yearsafter completion of the F/S, complementary study mainly review of previous F/S on dan and reservoir construction was conducted in 35 on August. 1988 by means of OECF loan aid with an amount of USS1.651 billion, signed LAA on August, 1985. Major
7.OBJECTIVES OF STUDY F/S			components of this D/D were consisted of complementary study for detail designand preparation of the tender documents. In March, 1957, the Government made a lean application for Japan, however, due to huge project costs, it was not accepted. (FY1994 Overseas Survey) After that, the Norld Bank, which was prnoting the commontal structural adjustment for Hondrias, had severely verification with this project, the World Bank recommended to review or following points:
8.DATE OF S/W 9.CONSULTANT(S) Hippon Koei Co., Ltd. 10.STUDY TEAM No.of Members 1 Period Jul 1.1977-N Total M/M II.ASSOCIATED AND/OR	Japan Field	Imp. Period: 1978.6-1983.12 4.FFASIBILITY AND THE ASSUMPTIONS THE ASSUMPTIONS FOR STATE OF THE ASSUMPTION FOR STATE OF THE ASSUMPTIO	in Improvement of the quality of river water. 2) Tosolvethe problems caused by piling earth and sand at the future days site due to destroy of the forest. 3) Experimental of the project Costs. 11 Project in the project Costs. 12 Project in the project Costs. 13 Project in the project Costs. 14 Project is being discussed by Rondwas One remember of the Project is being discussed by Rondwas One remember of the Project is 111 no concluded that there would be no exceed as the project in the project in suspended. (PY1935 Domestic Survey) No additional information. (PY1955 Overseas Survey) No special progress. The importance of this project in Hondwas is the same as before. 2.MAJOR REASONS FOR PRESENT STATUS Rondwas is currently implementing its Structural Adjustment Program. OCCF is rethinking the appropriateness of financing a project recypiting large capital.
12 EXPENDITURE Total Contracted	139,496 (¥'000) 122,985	S.TECHNICAL TRANSPER Out to the counterparts	3.PRINCIPAL SOURCE OF INFORMATION ①. ②. ③. ④

CSA HND/S 301/79						Compiled Mar.1986 Revised Mar.1996		
I. OUTLIN	E OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT		UDIED PROJECT
L.COUNTRY 2.NAME OF STUDY New Tegucigalpa A	Honduras irport Developme	ent	LSITE OR AREA Valle de Tale 2.PROJECT COST (US\$1,000)	anga, 60km north of Capital Total Cost Local Cost 66,002 29,042	city Foreign Cost	I.PRESENT STATUS	Completed or in Progress Completed Partially Completed Implementing Processing	
3.SECTOR Transportation/Air Transportation & Airport 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Directorate General of Civil Works, Min. of Communications, Public Works & Transport 7.OBJECTIVES OF STUDY To select suitable site for new airport to replace the existing airport seriously handicasped by aircraft operation problems		of	(US\$1=200Yen) 2) 3) 3. 3. 3. 3. 3. 3. 3. 3. 3			(Description) The Government of Honduras applied for yen credit, but subsequed decided to withdraw the application. (FY1931 Overseas Survey) The government still has a strong desire for the new airpoit, be no action has been taken. (FY1939 Overseas Survey) Although the request for an OECF lean was approved, the object spending of the lean was re-examined as the result of the change that change of the acvernment, and the lean was applied to the change of the		yen credit, but subsequentle for the new airport, but as approved, the object of the change of hears applied to other. Spain was conducted between proposel site was better proposel are subseited proposel are subseited minuterly. SEOPT and under industry. SEOPT and construct the Texacing companies, and under industry. SEOPT and construct the Texacing construct the Texacing construct the Texacing to the Texacing the SeOPT and the Texacing the SeOPT and the Texacing the T
8.DATE OF S/W	1977/10		Imp. Period: 1981.7-1995.12			the contract	amount of US\$120 million.	
9.CONSULTANT(S) Japan Airport Consult	ants, Inc.		4.FEASIBILITY AND ITS ASSUMPTIONS Peasibility: Yes Conditions and Development Important Conditions 11/101/101/101/101/101/101/101/101/101/	EIRR2) FIF EIRR3) FIF	RRI) RR2) RR3) action with 4 H passengers and 62,020			
	13 Jul 1979 (20 mont	hs)	Conditions and Development impromotion to accommodate 1 designed to accommodate 1 tons of cargo for year 2005; 1) To because it is difficult to expand Expected Effects: 1) Increased capturaffic; 2) Increase in tourism in turnway usability; 6) Improved airc employment opportunities.	 construct an airport at a 1 the existing airport, acity to service overflowing acres; 3 increase in airport 1) Saving in aviation fuel; raft operation safety; 7) Ir 	new site ng passenger t tariff 5)1mproved ncrease in			
Total M/M 70.50 H.ASSOCIATED AND/OI SUBCONTRACTED STU		Field 21.67				2 MAJOR REA	ASONS FOR PRESENT STATU	JS
12 EXPENDITURE Total Contracted	169,69 135,35	,	STECHNICAL TRANSFER Trainee invited to Japan : One of Seminar.	fficial participated in JIC	A's Aerodrome	3.PRINCIPAL ①、②、③	SOURCE OF INFORMATION	

和名 デグシガルパ新空港建設計画

CSA HND/A 502/83			Revised Mar. 1996
I. OUTLINE	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
1.COUNTRY 2.NAME OF STUDY Fisheries Resource	Honduras es Survey	LSITE OR AREA From Torujillo to Fuerto Cortes, North sea-shore of Handuras	I.PRESENT STATUS In Progress or In Use CI Delayed CI Discontinued
		2.PROJECT COST Total Cost Local Cost Foreign Cost (US\$1,000) 1) 2)	(Description) (FY 1991 Overseas Survey) The findings of the study have been utilized by the FAO-assisted
3.SECTOR Fisheries/Fisheries		3.CONTENTS OF MAIOR PROJECT(S) - Fishing port is necessary between Tela and La Ceiba.	study of coastal fisheries and other studies of marine biology and coastal fishermen. The Hinistry of Natural Resources is requesting Japanese assistance for similar studies in other areas.
4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENC Bureau of Rehabilitati Resources; Fishery Sec Agency	Pasic Study On, Ministry of Natural tion, Economic Planning	It is necessary to improve the distribution system. The the proper cordition of distribution, tishing base, etc. bottom gillnet, shark long line, trawl fishing are useful for marine resource development.	IFF199) Overseas Survey) Among recommendations of the study, inprovement of long line theory of shark was not repleanated because in the economic value of theory of shark was not repleanated because in the economic value of third Project at Trujillo as a model project. The agency is planning to initiate small scale fishery development project at its Ausquitta, province of Oracias a Dios, however the economic value of the economic value
1.OBJECTIVES OF STUDY In order to promote th Survey the aquacultura of Atlantic Ocean			(FY1995 Domestic Survey) Mo additional information. (FY1995 Overseas Survey) Trying to materialize the modernization of the fishing port of truillo as a mini-project of the basement to carry on new terms of the survey of the survey of the survey of the Master Plan Study on small Scale Fisheries Development Project on the North Coast of the Republic of Nonduras is implemented from
8.DATE OF S/W	1980/9		December 1995
9.CONSULTANT(S)		4.CONDITIONS AND DEVELOPMENT IMPACTS The amount of fish consumption is extremely small, therefore it is important to expand the demand of marine products.	
to design property and the property of the party of the p	.J 17		
	Mar.1983(20 months)		
Total M/M	Japan Field		2.MAJOR REASONS FOR PRESENT STATUS
11.ASSOCIATED AND/OR SUBCONTRACTED STUI			
12.EXPENDITURE Total Contracted	166,926 (¥'000)	SIECHNICAL TRANSIER 1)Accept the trainces in Japan 2)Out for aquacultural resources	3. PRINCIPAL SOURCE OF INFORMATION (i), (ii), (ii)

COLLET BOMMINT (BO

CSA HND/A 501/83 II. SUMMARY OF STUDY RESULTS III. PRESENT STATUS OF STUDY RESULTS I. OUTLINE OF STUDY 1.PRESENT LSITE OR AREA In Progress or In Use LCOUNTRY Honduras STATUS □ Delayed 2.NAME OF STUDY An area of 2,000 sq.km in Mosquitia District, Gracias A Dios Province ☐ Discontinued Inventario forestal del distrito forestal de La Mosquitia 2.PROJECT COST Local Cost Foreign Cost (Description) Total Cost The results of this study such as the aerial photographs, the topographic maps, forest type maps, etc. are used by the authorities (US\$1,000) 1) 2) In recent years the government of Germany implemented a technical 3.SECTOR cooperation project using this forest management plan. Forest Conservation 3.CONTENTS OF MAJOR PROJECT(S) Forestry/Forestry & (1991 Overseas Survey) No additional information. In order to utilize Caribbean pines in the subject area, a forest management plan was proposed containing following components: 4.REFERENCE NO Countermeasures against forest fires (FY1993 Overseas Survey) Improvement of forest road network Application of the Grant Aid for the implementation of sawlumber project was made in 193 however the application was not approved. Wood chips production project near Micaragua border was intended in 5.TYPE OF STUDY Basic Study -To enlarge natural regeneration and re-afforestation -To increase the timber production 6 COUNTERPART AGENCY 1385 but it was not implemented. At the donor conference held in 1389, the government of Germany showed the interest in implementation of Forest management and Reserve protection project of Rio Platano. Forest Development Corporation of the Republic of Honduras of rotest management and reserve the project of the Biosfera fel Rio Plateno has been completed and the agency is now negociating with GTZ and KFW (Financing Agency of Germany) for the implementation 7.OBJECTIVES OF STUDY of the project. To provide the fundamental data and information (FY1994 Domestic Survey) (FY1995 Domestic Survey) to systematize the forest management for the No additional information. contribution to socio-economic development in (FY1995 Overseas Survey) Mosquitia. Still no pregress on the financing and the implementation. 1980/9 8.DATE OF SAV 4 CONDITIONS AND DEVELOPMENT IMPACTS 9.CONSULTANT(S) In this area, there is not any road leading to any other areas, therefore in this area, there is not any road leading to any other areas, therefore the transportation is limited to see transport. On the other hand is in the control of the contro Japan Forest Technical Association constraints 10.STUDY TEAM No.of Members Period Dec. 1980-Mar. 1983 (28 months) 2 MAJOR REASONS FOR PRESENT STATUS Field Total M/M Japan 46.00 51.00 97.00 HASSOCIATED AND/OR SUBCONTRACTED STUDY Aerial photography 3.PRINCIPAL SOURCE OF INFORMATION 5.TECHNICAL TRANSFER DEXPENDITURE 296, 353 (¥'000) To accept trainees (0, (2), (3) Total To conduct on the job training on the forest inventory survey 264,673 Contracted

和名 ラ・モスキチア地区林業資源調査

{M/P,Basic Study,Other}

Compiled Mar.1990 Revised Mar.1996

CSA HND/A 302/8

CSA HND/A 302/84						
I, OUTLINI	E OF STUDY	II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
I.COUNTRY 2.NAME OF STUDY Choluteca River Ba	Honduras	1.SITE OR AREA CHOLUTECA plain, southe (Investigated Area 36,	ern part of Honduras ,000ha,population 22,600person)		ESENT [] Completed or in Progress Promoting ATUS O Completed Delayed or Suspended O Partially Completed Delayed or Suspended O Partially Completed O Partially	
Development Projec		distrom ()		1,779	O Implementing O Processing Discontinued or Cancelled	
3.SECTOR Agriculture/(Agricultur	e in)General	3.CONTENTS OF MAJOR PROJECT(S) 1. San Fernando Dam:Concrete gravity, 2. Irrigation Area:20,600ha (Western Ar	dam height 100m, crest length	Detai L/A Per	led Design was completed by the OECF E/S loan.	
4.REFERENCE NO.		3. Irrigation Facilities 1 intake weir/concrete type, weir		18719	91 Overseas Sutvey)	
5.TYPE OF STUDY	F/S	Main canals 30.6km(Western Area 23 Branch canals 75.5km(Western Area	.5km. East-A Area 7.UKm)	repea	official and unofficial requests for an OECF, loan have been made stedly but to no avail.	
6.COUNTERPART AGENC Ministry of Natural Re		Secondary canals 33.6km/Western Are Main Drainage canals 1113.0km/W.Are Secondary drainage canals 27.0km/W. Power Plantinstalled Cap. 18.2km/ 'The project cost 1) above is for the Stagethum & Fower plant and irrigation	ea only) a 90.5km, EA Area 22.5km) estern Area only) Annual Output 53.56wh entire project, and 2) for the pn dev. of Western Area)	Howev imple river	193 Overseas Survey) Little 100 was conducted. Loan application was made in March 1987. Were the project cost is so huge that the project was not represented. Percommendations for water quality improvement of the r, sedimentation and forest destruction of dam site, environment and review of project cost were made by The World Bank	
7.OBJECTIVES OF STUDY		The implementation period below perta project,	ins to the 1st Stage of the	which	conducts Economic Structure Adjustment Programme. Response to	
Update of feasibility Choluteca Area	study made in 1977 in			(FY15	however the implementation of the project is not yet initiated 194 Domestic Survey) (fer to the Project Suumarysheet (CSA MND/A 301/78) which is an hal P/S study of this project.	
				(FY15	995 Domestic Survey) o additional information.	
8.DATE OF SAV	1984/6	Imp. Period: 1985.3-1991.4			995 Overseas Survey)	
9.CONSULTANT(S) Nippon Koei Co., Ltd.		ITS ASSIMPTIONS PERSIBILITY:		13.10 No	additional information.	
10.STUDY TEAM		Conditions and Development Impacts: Conditions: Agricultural benefits are e income between the with-projection and the benefit of power generation is es capacity in dry season, by the value with-project outputs of Major Crops: its	d the without projection condit Limsted for the average generat of theimal power of 0.1311Lem/K st Stage 2nd Stage Total(1000	tion.		
	 15	Sugarcane Cotton	856 - 856 16.9 8.0 24.9 20.2 11.5 31.7			
	Mar.1985(8 months)	Fadly Haize Melons/Vegetables	9.0 10.4 19.4 66.4 - 66.4			
		Total Net Income(1000 Lempiras): 38,	191 11,327 49,518	eased		
Total M/M	Japan Field	agricultural exports, rutal electrific	cation, downstream flood contro	2.M	AJOR REASONS FOR PRESENT STATUS	
14.80	8.60 6.20			Progr	Honduras is currently implementing its Structural Adjustment ram. OECP is rethinking the appropriateness of financing a	
11.ASSOCIATED AND/OR				proj	ect requiring large capital.	
SUBCONTRACTED STU	DYI			proje	Monduras government is now examining its implementation of the ect because the project cost is huge and Structural Adjustment ram is currently implemented.	
TA EVOCEMENTURE	····	5.TECHNICAL TRANSFER Technology transfer to counterpart in	the course of the study.	3 PR	INCIPAL SOURCE OF INFORMATION	
12 EXPENDITURE Total	51,164 (¥'000)		the course of the study.	£	2. ①. ①	
Contracted	44,855					

CSA HND/A 303/85 II. SUMMARY OF STUDY RESULTS III. PRESENT STATUS OF STUDIED PROJECT I. OUTLINE OF STUDY LCOUNTRY Honduras LSITE OR AREA LPRESENT Completed or in Progress D Promoting Yoco, Aguan Central Valley(Saba-Oranchito) 188,000 people, 200km from capital, 23,000ha STATUS Completed 2.NAME OF STUDY Acuan Valley Agricultural Development O Partially Completed [7] Delayed or Suspended Project (Saba-Olanchito Area) Total Cost Local Cost Foreign Cost 2.PROJECT COST Implementing 64.425 22,733 41.692 I) Discontinued or Cancelled (US\$1,000) O Processing 2) US\$1=2Los. in 1984 3) (Description) 3.SECTOR 3.CONTENTS OF MAJOR PROJECT(S) After the completion of F/S, the economic situation of the country Agriculture/(Agriculture :in)General worsened, foreign debts accumulated. The other project (Choluteca River Basin Agricultural Development) was suspended after the D/D. For the purpose of the promotion of agrarian reform programs, the increase of agricultural production for export, the generation and there has been no progress regarding this project. 4.REFERENCE NO. of new job opportunities, the rationalized distribution of population and etc. the Lover Aguan Project has been carried out since 1971 at the Aguan Valley located in the north part of the Handuras Considering the importance of the continuous development of the (FY1993 Overseas Survey) 5.TYPE OF STUDY F/S Since the study was conducted, no effort for financing of the project implementation has been made. Reasons why the project is 6.COUNTERPART AGENCY Valley, the agricultural development project for the Middle Aguan was cancelled are. National Agrarian Institute huge project cost,
 no financial arrangement is planned, Land Reclamation: 9,100ha (two crops 1,600ha, couble crops 4,800ha, (3) allocation of government budget is getting difficult due to Citrus and others 2,700ha) the Structural Adjustment Programme, Moreover situation of the project site has been changed and Irrigation Facilities (Maximum water requirement 4.1 m3/s) Head works : 4 beneficiary farmers of the project site sold their farm land to 7.OBJECTIVES OF STUDY Siphon : River crossing 1, other 41
Fumping Station : 2(capacity 2.1 m3/s, 0.4 m3/s) Standard Fruit Corporation. The objective of the Feasibility Study is to Irrigation canal : Main 73.7 km, secondary 81.0 km (FY1994 Domestic Survey) evlauate the technical and economic feasibility Related Structures : 213 No information. of the development plans which include: rainage Facilities (Proposed discharge 15.2 m3/s)
Drainage Canal : 64.6km introduction of new irrigation, drainage and road systems, improvement and consolidation of Drop Works ransportation Facilities existing farm land and, development of Main Farm Road 8.DATE OF S/W 1983/11 Imp. Period: EIRR1) HIRRI) 4.FEASIBILITY AND 9.CONSULTANT(S) Feasibility: FIRR 2) FIRR2) ITS ASSUMPTIONS Pacific Consultants International Yes EIRR3) FIRR3) Conditions and Development Impacts: [Conditions] Inflation : not considered Exchange Rate : Lps. 1 = 120 Yen Project Life : up to 2024 (40 years after commencement of the **10.STUDY TEAM** construction Others : The benefit from road improvement was not considered No.of Members (Development Impacts) Introduction of two crops and double crops Decrease of flood disaster Period Feb. 1984-Jun. 1985 (17 months) Diversification of crops Improvement of agricultural productivity Increase of farmers income Field 2.MAJOR REASONS FOR PRESENT STATUS Total M/M Japan Implementation of the project is suspended due to (1) huge project cost, difficulty in financial arrangement due to the Structural 21.48 54.82 76.30 Adjustment Programme and (2) lower priority than the Choluteca River 11.ASSOCIATED AND/OR Basin Agril. Development Project. SUBCONTRACTED STUDY Geological Survey 5.TECHNICAL TRANSFER 3.PRINCIPAL SOURCE OF INFORMATION DEXPENDITURE 1.Acceptance of trainees 2. Provision of machinery (boring machine) and instruction on its use. 271,812 (¥1000) Total 3.Cooperation in field studies and reports 0, 0, 3 241,257 Contracted

和名 アグアン川流域農業開発計画

{F/S,D/D}

Compiled Mar. 1991 Revised Mar. 1998

CSA HND/S 501/89			Kevised nat. 1990
I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	HI. PRESENT STATUS OF STUDY RESULTS
I.COUNTRY 2.NAME OF STUDY Groundwater Develop	Honduras	LSITE OR AREA Comayagua Basin (Municiparity Comayagua & La Paz)	LPRESENT In Progress or In Use STATUS CI Delayed CI Discontinued
Comayagua		Total Cost Local Cost Foreign Cost	The Government of Honduras requested Japanese grant aid in Nov.1989, and the basic design study was conducted in Mar.1990.
3.SECTOR Social Infrastructu/Wate 4.REFERENCE NO.	r Resource Development	3.CONTENTS OF MAJOR PROJECT(S) The Final Report recommended that the project should be implemented in stages, and by the end of the second stages, of which the target year is 1996, 60 units of the type 1 and 22 units of the type 1 should be	Phase I: 1.108 million yen Well-excession (5) units) Placement of water supply system June 1990: DVD
5.TYPE OF STUDY 6.COUNTERPART AGENCY Ministry of Public Heal		constructd as the rural water supply system.	Pec. 1990: Contracts with the constructors Feb. 1992: Completed Phase II: 394 million yen
7.OBJECTIVES OF STUDY Groundwater Potential E Rural Water Supply	valuation & Master Plan of		(FY 193) Overseas survey) Groundwater Development Project in Comayagua Fhise III: 520 mil. yen
8.DATE OF S/W 9.CONSULTANT(S) Nippon Keei Co., Ltd.	1987/11	4.CONDITIONS AND DEVELOPMENT IMPACTS The project has a character of 'Besic Nuran Needs' and is feasible economically, and it is expected that the project would make a significan contribution to socio-economic development and the improvement of health and sanitary conditions in the study area.	Engineers, 140 Wells are to be constructed by Members and only.
IO.STUDY TEAM No.of Members 8			[PY1935 Domestic Survey] The implementation for Phase-II is planned to complete in Nov., 1995. [YY1935 Overseas Survey] 30 holes from December, 1994 until March, 1995, 34 holes until August, 1995, and 21 holes until December, 1935 have been drilled, respectively as for the phase 3 and 4 of the implementation works.
Period Feb.1988-O	ct.1989 (21 months) Japan Field 17.59 27.17		2.MAJOR REASONS FOR PRESENT STATUS
11.ASSOCIATED AND/OR SUBCONTRACTED STUD Test Well Drilling & Pur	Y		
12 EXPENDITURE Total Contracted	206, 708 (¥'000)	STECHNICALTRANSFER OUT for counterparts during the site study (1988-89) about routine site study, management of well-boring and analytical works.	3.PRINCIPAL SOURCE OF INFORMATION (i), (ii), (ii)
to シンヤガア風粉下水	PA CA A LITA		[M/P,Basic Study,Other]

CSA HND/A 304/90			Revised Mar. 1996	
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY 2.NAME OF STUDY Rehabilitation of Irrigation Improve Comayagua Valley	Honduras Coyolar Dam and ement Project in	1.SITE OR ARBA	I.PRESENT Completed or in Progress Promoting Completed Partially Completed Purplementing Processing Discontinued or Cancelled	
7.OBJECTIVES OF STUD	F/S CY esources, General Resourcescement of existing	3) 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	(Description) The Covernment of Hondorus strongly requested Japanese Grant Aid for rehabilitation of Coyolar Dam. The possessibility of implementation of the Project is being studied in the Ministry of Foreign Affair in Japan (FY193) Overseas Survey) Application for Grant Aid was made in Dec. 1991. Woever the project cost was far beyond the list of grant of the Grant Project cost was far beyond the list of grant of the Grant Project Cord of the Grant Project Project The Cord amount is 27.09 and Final Project Cord of the Grant Project Proje	
8.DATE OF S/W 9.CONSULTANT(S) Pacific Consultants 1	1989/4	Imp. Period: 19911998. 4.FEASIBILITY AND Feasibility: EIRR1) 15.71 FIRR1) 15.00 EIRR2) FIRR3) FIRR3 FIRR3 FIRR3 EIRR3 E	(F1975) Overseas Survey. A moltinumpose dam, a 2MA hydropover station will have this modern the result of JUA's F7S by means of the loan from Nuwsiti Fund and the finance by Honduran Government. The construction works have been commenced on March, 1975 and expected to complete March, 1976, The construction costs will be US\$ 207 million as for the foreign cost and 18.6 million Leapriras as the local cost.	
10.STUDY TEAM No.of Members Period Dec. 1989- Total M/M 50.22	9 Mar.1990(15.5 months) Japan Field 21.30 28.92	Conditions and Development Impacts: [Conditions] [Conditi	2.MAJOR REASONS FOR PRESENT STATUS	
TOTAL TOTAL TOTAL TOTAL	1 Survey of Canal/Echo r/Others	S.TECHNICAL TRANSFER JICA Counterpart Tealning	3.PRINCIPAL SOURCE OF INFORMATION ①, ②, ③	
Contracted	35,420			

Compiled Nov.1993 Revised Mar.1996

CSA HND/S 102/92

I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS	
	L SITE OR AREA	1.PRESENT [] In Progress or In Use	
I.COUNTRY Honduras 2.NAME OF STUDY Rural Telecommunications Network	23rural community areas scattering around the whole contry of Honduras	STATUS [] Delayed Discontinued	
Project	2.PROJECT COST	(Description) 1. Request for Japan's Technical Assistance to conduct Feasibiliby Study on Telecommunications Network Expansion Project On the suggestions of this study report, the request titled above concerning the introduction of digital exchanges in major Jocal	
3.SECTOR Communications & B/Telecommunication	3.CONTENTS OF MAJOR PROJECT(S)	surrounding areas was submitted to Ministry of Planning by RONDUTEL	
4.REFERENCE NO.	The main content of the project is increase the telephone penetration ratio per 100 inhabitants in the subject areas from 1.19 to 1.66 by providing 12,090 telephone lines until the year 2002.	and now under Consideration and Pural Telecommunications Network Expansion Project On the suggestions of this study report, the application titled above	
5.TYPE OF STUDY M/P	Phase-1 (1994-1997)	concerning the installation of rural telecommunications network.	
6.COUNTERPART AGENCY Empresa Hondurena de Telecomunicaciones	2) Optical Fiber Cable Transmission System 12 Sections 3) Digital Hulti Access System 7 Systems (4) Subscriber lines 15,670 Pair x Fms	social benefit, was submitted to Ministry of Planning by HUNDITED and now under consideration in the Ministry.	
(HONDUTEL) Development Division	Phase-1 (1997-2000)	(FY199) Overseas Survey) The proposed project she been revised thoroughly by the technical planning department of MONOUTEL by October 1993. The project she was a survey of the provide 7227 lines for 17 prefectures (212 districts). The project divides the country into	
TOBLECTIVES OF STUDY To formulate a master plan covering until the year 2002 for a rural telecommunications netwo offering automatic telephone service to 223 ruccommunity areas.		17 prefectures; Northwest, Midwest and North) and is loplemented as four sub-projects. Northeast: under impresentation (ECU 2.9 mil. Grant from EC and EC 2.09 mil. domestic fund) 2.059 mil. domestic fund) schedule to provide 1511 lines to three prefectures(49 as for other sub-projects, requests for grants or long-team soft looms have been made to Japan, Nextoo, Canada, and international	
8.DATE OF S/W 91/4	The providing on the providing of the control of th	organizations.	
9.CONSULTANT(S) NT International Corporation	ACONDITIONS AND DEVELOPMENT IMPACTS Conditions: Condi	(FY1994 Domestic Survey) This project was discontinued because the American firm, ATST, started providing the exchanges to main towns and villages holding a mortgate on the change for international call.	
IO.STUDY TEAM No.of Members 7 Period Dec. 1991-Nov. 1992 (11 months)	The system should be free from forescen problems, especially those on cherging. The network should be flexible to allow evolution in the future. The network should be flexible to allow evolution in the future. The proposition of transformation from self-supporting agriculture to market-economy type agriculture by introducing the market information.		
	in the rural areas. 2. Generation of surplus agriculutural products by introduction of new and improved farming technologies for modernization of agriculution mechanism and all the production mechanism and the production mechanism.	2 MAJOR REASONS FOR PRESENT STATUS	
Total M/M Japan Fid 33.98 12.99 20. ILASSOCIATED AND/OR SUBCONIRACTED STUDY	3. Enhancement and establishment of a physical distributions for settlement of transactions.	The Government of Honduras has given high priority to developing a telecommunications network because it is indispensable for social and economic development. The state-owned enterprise responsible for	
12.EXPENDITURE	5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION	
Total 139,083 (¥C) Contracted 123,069	NO Technical teaseper in Japan was conducted to a MONDETEL counterpart during the study periods of Nork in Japan-1 and 2, respectively. A seminar on the Study was held during the period of Nork in Honduras-1.	(), (i)	

CSA HND/S 214/93				Revised Mat. 1996	
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III, PRESENT STATUS OF STUDIED PROJECT	
2.NAME OF STUDY	Honduras	(US\$1,000) Cost Co	reign - 4 - 26,980	LPRESIENT Completed or in Progress Promoting	
3.SECTOR Transportation/Port 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Empress Nacional Portva 7.OBJECTIVES OF STUDY 1.Fort Development and 2.M/P, F/S for port of 3. Urgent Japrovenent P 8.DATE OF SAW 9.CONSULTANTIS)	ria(ENP) Yanagement Strategy.	(US\$1,000) IS 1) 49,005 21 3) 3.CONTENTS OF MAIOR PROJECT(S) 1.Forts Development and Management Strategy. 2.Development plan for Fort of Cortes. 3.Management plan for Port of Cortes. 4.Urgent Employment plan for all ports.		(Description) (PM194 Donestic Survey) (PM195	
Overseas Coastal Area D Nippon Koel Co., Ltd. 10.STUDY TEAM No.of Members 12	Japan Field 24.30 31.20	TE ASSIMPTIONS WORKER (NO.		FY1999 Desestic Survey) FY1999 Desestic Survey) FY1999 Desests Survey FY1999 Overses FY1999	
12 EXPENDITURE Total Contracted	272,110 (¥'000) 259,212	5.TECHNICAL TRANSPER Invited counterpart to Japan for training.		3.PRINCIPAL SOURCE OF INFORMATION 0. ②	

CSA HND/S 213/93

I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY Honduras 2.NAME OF STUDY Erosion and Sediment Control in the	LSTTE OR AREA North-western area of Sula Valley(717km2)	LPRESENT [] Completed or in Progress Promoting STATUS O Completed O Partially Completed Delayed or Suspended	
Pilot River Basin, Choloma, San Pedro Sula, Cortes	2.PROJECT COST MP 1) Local Foreign Cost (US\$1,000) (US\$1,000) FS 1) 77,948 29,474 48,474 (US\$1,000) 70,92,666 35,930 56,736 (US\$1,000) 70,92,666 70,92,930 70,	O Implementing O Processing [] Discontinued or Cancelled (Description)	
3.SECTOR Social Infrastructu/River & Erosion Control	3) 3. CONTENTS OF MAJOR PROJECT(S)	(Description). Among the matter plan of the Choloma river, following urgent plan was formulated by the feesibility such as the choloma River of the Choloma River of Total cost : USS2,289 X 1,000	
4.REFERENCE NO. 5.TYPE OF STUDY M/P+F/S 6.COUNTERPART AGENCY	The Master plan for flood control and sediment control was formulated with the design scale of 50 year flood and recorded maximum sediment disaster in 1974 respectively. llCholoms River -River improvement 7.8km, embankment 15.6km etc -Check dam 10nos, Consolidation dam 17nos., training levee 1.3km	F/C: US\$44.197 X 1.000 L/C: US\$ 8.693 X 1.000 -River improvement 1.4km, embankment 5.9km, rivetment 3.4km etc -Check das Znos., consolidation, dam Znos., training levee lno. The Government of Monduras is requesting the JICA's grant aid to the Government of Japan for implementation of the above urgent plan.	
Ministry of Communications, Public Works and Transportation(SECOPT)	21E1 Sauce River/Blanco River - River ingrovement 7.5mm, Diversion channel 2.6km, embankment 19.7km etc. - Check dan Zhos., Consolidation dam 7nos., treining lever 4.0km channel works 3 places.	(FY1995 Domestic Survey)	
TOBJECTIVES OF STUDY To formulate a master plan of flood Control and sediment control and conduct a feasibility study		The urgent plan of this project covers an area of 712 km2 including tiver basin of Choleas, San Pedro Sula and Cortos conforming an industrial center of the country with a total population of approximately 310.000. This project is move providing to commance the implementation on 1935 and planned the letter of the country with the project of the superior of the country of the cou	
8.DATE OF S/W 1991/12			
9.CONSULTANI(S) Facific Consultants International	Imp. Period:		
No.of Members 13 Period Aug. 1992-Jan. 1994 (18 months)	Conditions and Development Impacts: 110thit prices are based on the market price of June, 1993. 21Project inplementation is assumed between 1995 and 2005. 31Project life is assumed to be 50 years. 11Development inpacts are as follows; (1) and and sediment control project and economic activity due to the Cloud and sediment control project and are the control project and will be		
Total M/M Japan Field	insured	2.MAJOR REASONS FOR PRESENT STATUS	
80.23 15.90 64.33 1LASSOCIATED AND/OR SURCONTRACTED STUDY 1)Topographic Survey 2 River Material Survey 1)Installation of hydrological observation equipment 4 foeelogical and Environtal Surveys surveys 3 river Material Surveys 1000 1000		Treemdovs flood and sediment disaster including about 10,000 dead people was recoded in choloma river basin during the hurricane 'Fiff' in 1974. The vosin still has the big potential for the disaster.	
12 EXPENDITURE	S.TECHNICAL TRANSFER On-the-job-training to the counterpart staff. Overseas training in Japan to the 2 counterpart staff.	3.PRINCIPAL SOURCE OF INFORMATION (i). (ii) SECOPT, SECPLAN(Ministry of Planification coordination and Budget)	

Compiled Oct.1995 Revised Mar.1996

CSA HND/A 305/94

I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT	
I.COUNTRY Honduras 2.NAME OF STUDY Irrigated Agricultural Development Project in Jesus de Otoro, Intibuca Department	LSITE OR AREA	I.PRESENT STATUS Completed O Partially Completed O Implementing O Processing Discontinued or Cancelled	
3.SECTOR Agriculture/Itrigation, Drainage & Reclamation 4.REFERENCE NO. 5.TYPE OF STUDY F/S 6.COUNTERPART AGENCY Directorate General of Water Resources. Ninistry of Natural Resources 7.OBJECTIVES OF STUDY	3.CONIENIS OF MAIOR PROJECTIS 1)Plan of Irrigation and Drainage:	(Description) The final report of this survey works has been submitted in March 1994. Based on the report, the Honduran Government officially requested to the Government of Japan during the fiscal year of 1994 to implement this project by Japanese grant aid. FY1959 Overseas Surveyly The negotiation regarding to the financial cooperation is carrying on among both government of Japan and Monduras.	
Resopution of the most apropriate project implementation plan through the Feasibility study of the agricultural development by irrigation in the target area.	2)Plan of Agricultural infrastructure: Bural road: 5.95km, Spillway: J. Farmers' assemly hall: 8, Agricultural decelopment center: 1		
8.DATE OF SAV 1992/3	Imp. Period:		
9.CONSULTANT(S) Kokusai Kougyo Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS Yes/No EIRR2) FIRR2) FIRR2) EIRR2) FIRR3) FIRR3)		
Naigai Engineering Co., Ltd. 10.STUDY TEAM No.of Members 12 Period Sep.1992-Peb.1994(18 months)	Conditions and Development Impacts: Conditions Conditions		
Total M/M Japan Field 73.33 27.27 46.00 II.ASSOCIATED AND/OR SUBCONTRACTED STUDY SURVEY of River touce, Soil Test, Mater quality Survey of River touce, Soil Test, Mater quality	rice mills, storages, transporters, suppliers of equipment and materials, general labourers, etc. 3) Improvement of the revenue and the living standard of the farmers small scale medium scale large scale	2.MAJOR REASONS FOR PRESENT STATUS	
Survey of River toute. Text, Geological Survey, Topographic Survey, Economic Survey for farchouses 12.EXPENDITURE Total Contracted 268,797	5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION (D. ②	

CSA JAM/A 301/85

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT	
LCOUNTRY Jar 2.NAME OF STUDY Agricultural Developme Black River Lower Mor-	maica ent Project on the ass	SITE OR AREA	I.PRESENT STATUS Completed or in Progress Completed Completed Description Partially Completed Implementing Processing Discontinued or Cancelled	
3.SECIOR Agriculture/(Agriculture) 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Ministry of Agriculture, be and Policy 7.OBJECTIVES OF STUDY F/S to formulate the project technical and economic feat	P/S epartment of Planning and verify its	ACONTENTS OF MAJOR PROJECTIS) 1) Major Investment for the Project a. Irrigation Area: 3,080 horsion Keir, 1place, (2) Irrigation Pump St. 1 Asiar Fact Units of 12004 700cm diameter, (1) Drainage Evmp St.; 4 places with 15 units of 100-125MF 800cm diameter, (4) Irrigation Canalimani 35,20m a secondary 10,05m, (5) Drainage Canalimani 41,3 km, secondary 154,0km a catch deal of Drainage Canalimani 41,3 km, secondary 154,0km a catch deal of Canalimani 41,3 km, secondary 154,0km a	(Description) It was subject to establish a holding company who would be responsible for construction of civil regimeering works, development and operations to take the subject of civil regimeering works, development and operations to take the subject of and settlement of fainces, well as recapitations of the subject o	
8.DATE OF S/W 9.CONSULTANT(S)	1983/12	Imp. Period: 19861991.	(FY1995 Dozestic Survey) No additional information.	
Hippon Koel Co., Ltd. Taiyo Consultants Co., Ltd 10.STUDY TEAM No.of Members 10 Period Feb. 1984-Jun.		ERR.) 15.00 FRR.) Conditions and Development Impacts: Conditions: 11Agricultural benefit was estimated as the net incremental benefit derived from difference of net crop production between with project and 21Project area consists of mineral soil area (180ha) and peat soil area (190ha) and peat soil areas and soya bean on inheral soil area (190ha) areas (190ha) and peat soil areas and soya bean on inheral soil area (190ha) areas		
	Japan Field 1.55 9.59	sain-fed paddy (100hs) and upland crops \$60hs) in sineral soil area only, in case of without project condition. 4)The Project cost for economic evaluation does not include costs for procurement and installation of post harvest facility (2 of above), and \$100 pt = 100 pt =	2.MAJOR REASONS FOR PRUSENT STATUS Change of the agricultural policy due to the change of the political power.	
12 EXPENDITURE Total Contracted	239,697 (¥'000) 217,840	STECHNICAL TRANSPER To undertake on-the-job training and transfer the technology to the Jamaican counterpart personnel in the course of the study.	3.PRINCIPAL SOURCE OF INFORMATION DESCRIPTION	

Can innin 302/01					
I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY Jamaica 2.NAME.OF.STUDY Modernization and Expansion of the Rio Cobro Irrigation scheme		1.SITE OR AREA 22km far from Kingstone in the vest (the surveyed area: 274 sq.km. population 136,000)		1.PRESENT	
3.SECTOR Agriculture/(Agriculture 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENC Hinistry of Agriculture 7.OBJECTIVES OF STUDY	F/S	3. CONTENTS OF MAJOR PROJECTIS. The project area is situated in southern coast in the parish of St. Pio corbor Irrigation System. The main concepts of the project to modernice and expand the presand improving existing infrastruct to introduced diversified exception of the project of the pro	12.390/balcompleted in 18/8) 2.40balcompleted in 18/8) 2.40balcompleted in 18/8 2.40balcompleted in 18/8 2.40balcompleted in 18/8 2.40balcompleted in 18/8 2.40balcomplete in 18/8 2.40balcompleted in 18/8 2.40balcomplete in 18/8 2.40balc	(Description) Frequest This project is given a high priority in the 'Food and Agriculture Folicies/frontion Five Year-Plan(18)/84-383/88) of the Folicies/frontion Five Year-Plan(18)/84-383/88) of the Folicies/frontion Food Food Food Food Food Food Food Fo	
8.DATE OF S/W	1985/12	Imp. Period: 19881991.			
9.CONSULTANT(S) Taiyo Consultants Co., Nippon Koei Co., Ltd.	Ltd.	4.FEASIBILITY AND Feasibility: ITS ASSUMPTIONS Yes	EIRR1) 24.00 FIRR1) 15.80 EIRR2) FIRR2) EIRR3) FIRR3)		
10.STUDY TEAM No.of Members 1] .3 (un. 1987 (18 months)	investment productive as soon as; 2) The major civil works and on-fa integrated in due to consideration programme particularly paddy lan- will be carried out without cutting downstream irrigated area and mund 4) The time required for construct; years including detailed design an	who up in such a way as to bake capital bossible. The control was a cationally in development works are rationally development. The control development development. The control was and main canal g off the existing water supply to the icipal water supply to Spanish Town. ion of the project would be about 4 d contract award.		
Total M/M 88.32 II.ASSOCIATED AND/OR SUBCONTRACTED STUI Geological survey Ana	32.33 55.99 DY	Development Impacts: 1)Foreign exchange saving: approxim foreign exchange will be saved by 2)Demonstration effects: Farmets ir modern irrigation and drainage pra	mately US\$17.5 million per annual of substituting for imported commodities; n other areas become familiar with	2.MAJOR RHASONS FOR PRESENT STATUS Shortage of the funds due to deterioration of the economic circumstances.	
12.EXPENDITURE Total Contracted	276,497 (¥'000) 251,952	5.TECHNICAL TRANSFER (1) Acceptance of one trainee on : (2) OUT	in-service training in Japan:	3.PRINCIPAL SOURCE OF INFORMATION	

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS	
LCOUNTRY Mexico 2.NAMEOFSTUDY Mexico City Suburban Railways		LSHEOR AREA Suburban railways of Mexico City; 5 lines with total extension of 77km	1.PRESENT ☐ In Progress or In Use STATUS ☐ Delayed ☐ Discontinued	
Construction Project	C	2.PROJECT COST	(Description) This study was to review, from the technical and economic standpoints, the basic plan for nee subtribute railway lines which was standpointed, the plan for the subtribute railway lines which was transport improvement policy for Mexico City, and to undertake a pre-tessibility study of the construction plan.	
Transportation/Railway 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Secretaria de Comunicac		3.CONTENTS OF MAJOR PRODECT(S) Alternatives: Electric engineering Norks stations) Electric engineering Norks (1982) Electric engineering (1982) Electric engineer	Passel on the results of this study. Mexican Government care to the conclusion that the estimated costs of construction would be too large for the aiready financially-strapped Mational Failways to bear and decided on the aiready financially-strapped Mational Failways to bear proposed by the Federal District Government. In this work was been proposed by the Federal District Government. Were not adopted for implementation, but served as one of the bases for the important policy decision by the Mexican Government. [PY193] Oversess Survey] No Additional Information.	
7.OBJECTIVES OF STUDY Review of the Mexican Grew railway lines, and construction works	overnment's basic plan for technical advice on	Note: The costs of Alternative A correspond to the figures for 1) and Alternative B for 2) above.	(FY1995 Overseas Survey) There are various factors which is interrupting to materialize this project, and no progress at all.	
8.DATE OF S/W 9.CONSULTANT(S) Japan Railway Technical	1977/8 Service	4.CONDITIONS AND DEVELOPMENT IMPACTS It is assumed that the construction cost for grade separation be paid by the government fund, and moreover, that the cost be excluded from the construction costs to be covered by fare revenues.		
10.STUDY TEAM		Resilvays will contribute to the amelioration of air pollution caused by the exhaust from motorized traffic in the metropolitan area.		
No.of Members 12 Period Sep.1977-Ma				
Total M/M 20.70 II.ASSOCIATED AND/OR SUBCONTRACTED STUD	Japan Field 10.70 10.00		2.MAJOR REASONS FOR PRESENT STATUS Decause of the huge construction costs necessary for new suburban ratiway lines, the Mexican Government chose the alternative of subways.	
12.EXPENDITURE Total Contracted	50,856 (¥'000) 38,688	STECINICAL TRANSIER Some counterparts participated in the JICA training program.	3.PRINCIPAL SOURCE OF INFORMATION ①. ②	

CSA MEX/S 602/79			Revised Mar. 1996	
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY 2.NAME OF STUDY Suburban Railways	Mexico Project (follow-up)	1.SITE OR AREA Suburbs of Mexico City	LPRESENT STATUS Delayed Discontinued	
3.SECTOR Transportation/Railway		2.PROJECT COST Total Cost Local Cost Foreign Cost (US\$1,000) 1) 2) 3.CONTENTS OF MAJOR PROJECT(\$)	(Description) 1) Section between Mexico City and Queretaro (244km) 1981 Construction works started. 1982 - 86 Due to the decline of oil prices, construction works were virtually suspended. (FY1991 Overseas Survey)	
4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Secretaria de Comunicaciones y Transportes		As set, of the sailty sedentisation policy, the Mexican Government is promised the electification of the entire ratively system. The Government requested Japanese technical cooperation concerning feasibility studies on two of the high priority sections selected for electrification: Namely, the section between Mexico City and Queretero (244km) and the section between Mexico City and Irapuato (358m). Overnment sent a team of Irapuato (358m). Overnment sent a team of contract the Japanese contraction of the feasibility studies. The process are the following: 1. This study took the following into account. (1) Several sypes of electrification are widely applied in the world.	reb. 1992 About 80% of the construction works completed. 1993 Scheduled to be operated on commercial basis. 2) Section between Mexico City and Irapuato (95km) Suspended until the section between Mexico City and Quaretaro hegoperation.	
planning and the opera	y guidance on the physical ation and management for the ation plan of the Mexican	[1] Several types of electrication are used spyrigation but a *inited of the control of the cont	No additional information.	
8.DATE OF SAV 9.CONSULTANT(S) Japan Pailway Technica	/ il Service	4.CONDITIONS AND DEVELOPMENT IMPACTS [Condition and Impact] The abount of freight transportation in this section is expected to increase year by year along with Mexico's economic grouth. Then this electrification is expected to make possible to speed up the trains and increase their freight capacity. So a technical transfer impact of this electrification is estimated very high.		
10.STUDY TEAM No.of Members Period Jun. 1979-	4 Aug.1979(2 months)			
Total M/M	Japan Field		2.MAJOR REASONS FOR PRESENT STATUS Financial problems.	
11.ASSOCIATED AND/OI SUBCONTRACTED STU None				
12.EXPENDITURE Total Contracted	7 , 326 (¥'000)	5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION (a), (a)	

CSA MEX/S 603/81			Revised Mar. 1990
I. OUTLIN	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
	Mexico rificacion de la linea	LSITE OR AREA Section between Mexican city and Irapuato(351.2km)	1.PRESENT STATUS ☐ In Progress or In Use ☐ Delayed ☐ Discontinued
de Mexico a Trapuato 3.SECTOR Transportation/Rallway 4.REFERENCE NO. 5.TYPE OF STUDY Other 6.COUNTERPART AGENCY Secretaria de Comunicaciones y Transportes		2.PROJECT COST (US\$1,000) 1) 2) 3.CONTENIS OF MAJOR PROJECT(S) For each technical field composing the electrification of the railway, various systems and desertist. Since the electrification is not a simple cumulation of those technologies but a composite system organizing each reparating technologies. It has been recommended to the Markam Government that it is the most important subject to select the most appropriate system for Markam Government control of the Markam Government that it is the most important subject to select the most appropriate system for Markam Government and the Markam Government that it is the most important subject to select the most appropriate system for Markam Government and the markam Government and the markam Government and the selective of collection of collection of current, and to make clear the relationship between feeding system and	
electrification of the		signaling facilities correspondencing facilities. The recommendation is consisted of following items long plans; [2] introduction of loccootives. [3] Design of Railway Lines, system of electricity. [3] Design of Railway Lines, system of electricity. [4] Arrangements of supplient the little of the lock of the little of the lock of the little of the lock of the lock of the little of the lock of the little of the lock of the little of the lock of th	2)Section between Mexico City and Irapyato (9)Me) Suspended until the section between Mexico City and Queretaro begin operation. (FY1994 Demestic Survey) (FY1995 Demestic Survey) No additional information. (FY1995 Overseas Survey) The electrification works of the line between Mexico city and Irapyato had been completed.
110101 11101111	al service 23 Mar. 1981(10 months)	4.CONDITIONS AND DEVELOPMENT IMPACTS	
Total M/M 32.87 II.ASSOCIATED AND/O SUBCONTRACTED STL			2.MAJOR REASONS FOR PRESENT STATUS (FY199) Overseas Survey) The main reason is devaluation and inflation in the past years.
12.EXPENDITURE Total Contracted	111,252 (¥'000 3 87,967	5.TECHNICAL TRANSPER On-the-job training for Mexican counterparts through joint work.	3.PRINCIPAL SOURCE OF INFORMATION (b. ②

Compiled .1990 Revised Mar.1996

CSA MEX/S 604/82	<u></u>			
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY 2.NAME OF STUDY Development Plan	Mexico of Industrial Ports	LSITE OR AREA	1.PRESENT STATUS ☐ In Progress or In Use ☐ Delayed ☐ Discontinued	
3.SECTOR Everlopment Flam/Integrated Regional Development Flam 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Comission Nacional Coordinadora del Disarollo. Secretaria de Presidente, (SCT)		2.PROJECT COST (US\$1,000) 1) 2) 3.CONTENTS OF MAJOR PROJECT(S) The Japanese expert less provided technical advice and guidance on the port development necessary for coastal industrial growth, covering such areas as planning of pl	(Description) The progress of development in the selected ports has been as follows: 11 Altamira Port 11959 Use 1990 Feb. No.2 Borth completed for use 1990 Feb. No.2 Borth completed for use 1990 Feb. No.2 Borth completed for use 1990 Meb. 1990 Feb. No.2 Borth completed in 1992. (Infrastructural development to be financed by own funds, and necessary equipment by World Bank.) 2) Lataro Cardenas Port 1985 General cargo borth completed for use No.3 Berth insuf-purposal will be constructed dependent on the future increase of cargo throughput.	
7.OBJECTIVES OF STUDY Technical advice on all aspects of port development for coastal industrial growth			3) Oschon Port Development is suspended. 4) Salina Crus Port The construction of the breakwater was completed, but the development of the port is suspended. However, the development of oil-exporting port facilities have been under way. (FY1994 Domestic Survey) (FY1995 Domestic Survey) No additional information.	
8.DATE OF S/W	7			
9.CONSULTANT(S) Overseas Coastal Area 10.STUDY TEAM No.of Members	Development Institute 2 Mar.1982(20 months) Japan Field	4.CONDITIONS AND DEVELOPMENT IMPACTS Establishment of port managing body which will be responsible for port development and management.	2.MAJOR REASONS FOR PRESENT STATUS Reasons for 1) problems in land acquisition	
II.ASSOCIATED AND/O SUBCONTRACTED STU 12 EXPENDITURE Total	. 50, 192 (V'000)	STECHNICAL TRANSFER On the job training was provided to Mexican counterparts concerning panning design, investigation, management, man-power training and other areas necessary for port development. This technical transfer contributed	J.PRINCIPAL SOURCE OF INFORMATION (B) (B)	
Contracted	J	DIEGO MECANOLI CON PROPERTIES AND ADMINISTRATION OF THE PROPERTY OF THE PROPER		

和名 臨海工業地帯建設にかかる技術協力計画

{M/P,Basic Study,Other}

Compiled Mar. 1986

Revised Mar. 1996 CSA MEX/S 302/83 III. PRESENT STATUS OF STUDIED PROJECT II. SUMMARY OF STUDY RESULTS I. OUTLINE OF STUDY [] Completed or in Progress [] Promoting LSITE OR AREA LPRESENT Mexico I.COUNTRY STATUS O Completed 2.NAME OF STUDY Dixpan. Veracruz State O Partially Completed Delayed or Suspended Development Project of the Industrial Local Cost Foreign Cost Total Cost Port of Tuxpan 2 PROJECT COST O Implementing 196,000 426,000 1) 622,000 Discontinued or Cancelled () Processing (US\$1,000) 2) (US\$1=250Yen) (Description) 3) The project was suspended after the completion of the P/S. 3.SECTOR The project was identified as part of the industrial port development plan by the Mexican Government. The Tuxpan Port was ACONTENTS OF MAJOR PROJECTIST Transportation/Port As a part of industrial port development plan, Tuxpan Port Project was considered as one of the development projects to support and expedite the petroleum development plan in Chicontepec Basin. Because studied. 4 REFERENCE NO petroleum-producing strata in the Basin were found to be very deep. petroleum-producting Strake Art description (1982). The control of (1) Industrial Fort 15 berths (3,0550n) F/S 5.TYPE OF STUDY 6.COUNTERPART AGENCY (2)Commercial Port 1 berth Container berth Comision Nacional Coordinadora de Puertos, Cardenas Port. This policy has been continued by the President Sarinas who took power in Decepher 1988. Under the circumstances, the development of the Tuxpan Port as an Industrial port is currently suspended. Cardenas Port. This policy has been continued by the President 2 terths Bulk cargo berth Secretaria de Comunicaciones y Transportes General cargo berth The development of the Tuxpan Industrial Port must be suspended 7.OBJECTIVES OF STUDY presently, as far as the transportation problems (railway and roads) can not be solved. Formulation of a master plan through 2000, the formulation of a short-term development plan, and the execution of a feasibility study (FY1992 Overseas Survey) No additional information. (FY1994 Domestic Survey) No additional information 1984.4-1986.12 1982/5 Imp. Period: 8.DATE OF SAV EIRR1) FIRR() 4.FEASIBILITY AND Feasibility: 9.CONSULTANT(S) FIRR2) EIRR2) Overseas Coastal Area Development Institute ITS ASSUMPTIONS Yes FIRR3) FIRR3) Conditions and Development Impacts: lassumptions, commercial and fishery port functions are taken into consideration. Industrial and commercial cargo fore-casts for 1988 are consideration. Industrial and corrected cargo fore-casts for 1988 are 20.54 million tens and 1.2 million tons, respectively.

- Industries consist of iron and steel, machinery, automibile, ship-building, petrochemical, petroleum refining, food processing, sper and pulp, and fish processing, The area of about 3,000 ha is considered macrossay for industrial location. **10.STUDY TEAM** No of Members Period Jul. 1982-Nov. 1983 (16 months) [Development impacts] - New industrial location will create direct employment of about 15,000 A new urban agglomeration will emerge in the hinterland to support the industrial development and direct employment creation. 2 MAJOR REASONS FOR PRESENT STATUS Total M/M The population of the new urban center is estimated to be 190,000, requiring 4,000 has for settlement. Japan The national financial and economic crisis in 1982 - 198) suspended petroleum development in Chicontepec Basin, and the policy changed 20.33 58,00 78.33 over the industrial port development. 11.ASSOCIATED AND/OR SUBCONTRACTED STUDY 5.TECHNICAL TRANSFER 3.PRINCIPAL SOURCE OF INFORMATION On-the-job training was provided to counterparts through joint work of data collection and analysis and report writing.

Total Contracted 和名 トクスパン工業浅開発計画 173,817 (¥'000)

169,244

12 EXPENDITURE

{F/S,D/D}

COV MEVIO 201102		Y-2-2-1				
I. OUTLIN	NE OF STUDY	II. SUMMARY O	F STUDY RESULTS			US OF STUDIED PROJECT
ACOUNTRY Mexico 2.NAMEOFSTUDY Guanajusto New Railway Development Project		LSHEOR AREA A line linking rajor cities betwee Rincon (167km) 2.PROJECT COST (US\$1,000) 1)	Total Cost Local Cost 386,000 237,000	Foreign Cost 149,000	STATUS O Comple	y Completed [] Delayed or Suspended nenting
3.SECTOR Transportation/Rative 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGEN Goblerno del Estado of 7.ONJECTIVES OF STUL Construction of a no- transport in the Baji Dannajuato State.	F/S NCY de Guanajuato	3) 3. CONTENTS OF MAJOR PROJECT(S)	militon pesosi 169 169 85 34 111		1983, when the then Governor his technical staff. Because the construction national railways are curren Guanajuato State is unlikely the project is judged as ca (FY1991 Overseas Survey)	1, the opposition party took the politics recomel who knows the background of this
8.DATE OF SAV	1982/12	Imp. Period: 1984.1-1999.6				
9.CONSULTANT(S) Japan Railway Technic	cal Service	4.FEASIBILITY AND ITS ASSUMPTIONS Peasibility: Yes/No	EIRRI) FIRI EIRR2) FIRI EIRR3) FIR	R2)		
10.STUDY TEAM No.of Members Period Max. 1983	12 -Nov.1984(8 months)	Conditions and Development Imp. Assumptions: Opening of the line Opening of the entire line Completion of double trackir Expected development impacts: industrial parks in the Rajio Guanajuato State.	in 1990 in 1995 ng in 2000			
Total M/M 75.11 HASSOCIATED AND SUBCONTRACTED ST					2.MAJOR REASONS FOR PI 1) Departure of the Governe 2) Financial difficulty in 3) Policy change	r of Guanajusto State
12 EXPENDITURE Total	149,529 (¥1000	5.TECHNICAL TRANSFER One counterpart participated in training for undertaking feasibi	the JICA training program. Clity studies.	n-the-job	3.PRINCIPAL SOURCE OF I	NFORMATION
Contracte	140 700	´				

CSA MEX/S 303/85		
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
LCOUNTRY Mexico 2.NAME OF STUDY Development Project of the Port of Manzanillo	LSITE OR AREA	I.PRESENT STATUS Completed or in Progress Promoting Completed Patially Completed Delayed or Suspended Implementing Processing Discontinued or Cancelled
3.SECTOR Transportation/Port 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Comission Nacional Coordinadora de Puertos, Secretaria de Comunicaciones y Transportes	(US\$1=192pesos=240yen) 2) 3) 3.CONIENTS OF MAJOR PROJECT(S) Manashilio Fort will be developed as a hub post in Mexico. Facilities Seale or capacity Dicaging 1,170,000 cum (agri-bulk berths 900 m (agri-bulk berths 1500 berths container borth 1 berth) Fallvay 1,500 berths container borth 1 berth 1 Storage 15,000 state 15,000	(Description) The project is now under implementation as shown below: 1985 Land development behind Berth B and construction of Berth C started and Earth B. Agrob handling facilities behind Berth B. Grape handling facilities behind Berth B. Completed and petroleun tanks and associated facilities completed. Berth C completed Berth C completed and a berth behind Berth C completed and a berth behind Berth C (land reclassifien started in 1990, and the Berth C (land reclassifien started in 1991) The Mexican side completed the detailed design, but the application for an offor loan fell through. Construction has been partly linanced
7.OBJECTIVES OF STUDY Pormulation of a master plan through 2000, the formulation of a short-term development plan, and the execution of a feasibility study		for an OECF loan fell through. Construction has been partly insuled by the North Bank sector loan, but nostly by own funds. FFI1991 Overseas, Survey! 1992 Berth C is scheduled to be completed and to be operated from the forth quarter (FFI1992 Overseas Survey) 1991.2 Completion of 9 Berths. (FFI1994 Domestic Survey) No additional information.
8.DATE OF S/W 1984/6	Imp. Period: 1985.1-1989.12	
9.CONSULTANT(S) Overseas Coastal Area Development Institute	4.FEASIBILITY AND	
10.STUDY TEAM No.of Members 8 Period Sep.1984-Oct.1985 (13 months)	Conditions and Development Impacts: [Assurptions] [Assurpt	
Total M/M Japan Field 59.54 41.80 17.74 HASSOCIATED AND/OR SUBCONTRACTED STUDY		2.MAJOR REASONS FOR PRESENT STATUS This is the most important port along the Pacific coast.
17 EXPENDITURE	S.TECHNICAL TRANSFER One of the counterparts participated in the JICA training program on methods of feasibility analysis.	3.PRINCIPAL SOURCE OF INFORMATION (a). (b)

CSA MEX/S 304/87				Revised Mar. 1996
I. OUTLINE	OF STUDY	II. SUMMARY OF	STUDY RESULTS	HI. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY 2.NAME.OF.STUDY Repair Dockyard in	Mexico Lazaro Cardenas	LSITE OR AREA Industrial City of Lararo Cardenas Pacific coast 2.PROJECT COST (US\$1,000) (US\$1,000) 2)	which is centrally located in the Total Cost Local Cost Foreign Cost 101,700 49,000 52,700	I.PRESENT Completed or in Progress Promoting Completed Partially Completed Delayed or Suspended Implementing Processing Discontinued or Cancelled
3.SECTOR Transportation/Marine 1 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY EARCO Mexicano SCMEX 7.OBJECTIVES OF STUDY Feasibility analysis of technical transfer to M	a repair dockyard and	3) 3.CONTENTS OF MAJOR PROJECT(S) Pacilities Catle Pacilities Catle Pacilities 210m 55m Nork Day Roya Day Repair berth and other associate	out 60,000 DW Type, with width below sizes of ship who can navigate the	(Description) SOMEX initially expected to select one of its 117 subsidiary enterprises for operation and management of the proposed dockyard. However, privatization of those enterprises was completed in October 1988, and with the election of the new President in December 1988, top management of SOMEX was also replaced, necessitating the suspension of the proposed project. [YMJ93] Overseas Survey) Futherrore, the privatization of the SOMEX itself was determined in 1992 and the necessary procedure is being taken including personnel transfer. The project is now judged cancelled.
8.DATE OF SAV	1986/9	Imp. Period: 1990.1-1996.12		
9.CONSULTANT(S) Overseas Ships Building	Cooperation Center	4.FEASIBILITY AND Feasibility:	EIRR1) 11.00 FIRR1) 9.90 EIRR2) FIRR2) EIRR3) FIRR3)	
10.STUDY TEAM No.of Members 9 Period Mar. 1987-M	ar.1988(13 months)		1995, 2005 and 2015. e basis of past from Japanese data. method are adopted after ltermatives of lifting ships. ucture, such as access supply to the dockyard.	
Total M/M 40.67 11.ASSOCIATED AND/OR SUBCONTRACTED STUD	Japan Field 26.13 15.54	basis. - About 1400 job opportunities can		2 MAJOR REASONS FOR PRESENT STATUS
12.EXPENDITURE Total Contracted	127, 908 (¥'000) 109, 909	S.TECHNICAL TRANSFER On-the-job training for counterpa	rts about thechinique of F/S.	3.PRINCIPAL SOURCE OF INFORMATION (5. (2)

Compiled Mar. 1990 Mar.1996

CSA MEX/S 605/88 III. PRESENT STATUS OF STUDY RESULTS IL SUMMARY OF STUDY RESULTS I. OUTLINE OF STUDY LPRESENT LSITE OR AREA In Progress or In Use LCOUNTRY Mexico STATUS [] Delayed 2.NAME OF STUDY Mexico City Metropolitan Area □ Discontinued Air Pollution Control Plan in the Federal District 2.PROJECT COST Local Cost Foreign Cost (Description) Total Cost Constitution and recommendations of the study were incor-ing the first the Interest of the Federal District American for the Federal District announced in September 1959. 2) The air pollution control campaign was launched in January 1999, introducing such measures as compulsory automobile inspection, restrictions on the use of private (US\$1,000) 1) 2) 3.SECTOR 3.CONTENTS OF MAJOR PROJECT(S) Problems Administration/Environmental automobile, promotion of pollution-preventive devices and additives, and institution building.

Based on the findings of the study, a JICA-financed feasibility study (Air Pollution Control Measures for The study did not identify specific projects per se, but reviewed various measures for air pollution control which the Mexican Government has been 4.REFERENCE NO either implementing or plans to implement, and evaluated the expected effects of these measures. On the basis of the findings, the study made Fixed Sources of Emission???) is now being undertaken 5.TYPE OF STUDY Other elicate basis with a constraint of the secondary air supply device for used cars.

Introduction of the secondary air supply device for used cars.

Purther desulphurisation of gasoline
I) isprovement of rules and regulations in accordance with the (Dec. 1989 - Sept. 1991). In Mar. 1991, some oil refineries in the midtown area were 6 COUNTERPART AGENCY closed. The heavy polluted refineries were regulated. Departamento del Distrito Federal, Direccion The plant for low-sulphur heavy oil and the plant for General de Reordenacion Urbana y Pro Ecologia Environmental Law gasolin and light oil has been operated since 1991 by co-financing of OECF, Import & Export Bank and the World Strengthening of the air pollution menitoring network Institution building and manpower training Strengthening of surveillance over sources of pollutants 7.OBJECTIVES OF STUDY (FY1991 Overseas Survey) Recommendation of measures for air pollution No additinal Information. control Contents of OECF Loan (1) Desulfurization of heavy oil (2) Desulfurization of diesel oil (FY1994 Domestic Survey) No additional information. 1986/7 (FY1995 Domestic Survey) 8 DATE OF SAV Survey works for the introduction of combustion technology for air pollution control at the Federal District has been carried out by 4.CONDITIONS AND DEVELOPMENT IMPACTS 9.CONSULTANT(S) On-going and planned measures for air pollution control in Mexico are as JICA during 1993 to 1995. Pacific Consultants International follows: 1) Thermal power generation: change of fuels from heavy oil to (FY1995 Overseas Survey) (FY199) Overseas Survey) "Various actions are being taken such as the restriction to drive cars except allowed car numbers depend upon the day, the enforcement to control the exhaust gas, improve the traility of gasoline, etc. It is considering to collect and unite various actions to one, and Research, Analysis and Computing natural gas, and increased smoke elimination and desulfur-2) Factories: change of fuels from heavy oil to natural gas. increased use of low-sulphur fuels, and increased use of continue for long period. low-NOx burners Motorized vehicles: introduction of clear gasoline and tertiary catalytic devices, strengthening of the emission standards and the automobile inspection System 10.STUDY TEAM No.of Members Period Feb. 1987-Dec . 1988 (23 months) 2.MAJOR REASONS FOR PRESENT STATUS Field Control measures on factory emission, which is easies to implement than those on autocobiles, are relatively yeak in Mexico. In this regard, it is considered nocessary to identify specific and realistic measures in order to ensure the technical aspects of the improvement Total M/M Japan 40.14 32.47 72.61 11.ASSOCIATED AND/OR of rules and regulations' as mentioned in the recommendation 3). SUBCONTRACTED STUDY Chassis dynamo test Traffic volume estimation (aerophoto reading) 3.PRINCIPAL SOURCE OF INFORMATION 5.TECHNICAL TRANSFER 12 EXPENDITURE 1) On-the-job training on measuring and detection of atomospheric (i), (2), (i) 448,778 (¥'000) pollution, factory exhaust gas and so on, 2) A seminar on air pollution control was held for some 200 participants from DDF, SEDUE and Total

239,000

C3A MEA/3 303/70			
I. OUTLINE	OF STUDY	II, SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY 2.NAME OF STUDY Improvement of the	Mexico Pacific Coast Ports	ESITE OR AREA Fort of Salina crus, Larzaro cardenas, Mansanillo, Mazatran, Guaymas and Engenada 2.PROJECT COST 1 Total Cost Local Cost Foreign Cost (US\$1,000) 1,71,088 37,200 33,886	
3.SECTOR Transportation/Fort 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Puert of Mexicanos 7.OBJECTIVES OF STUDY 1. Urgent Improvement P 2. Long-term development 3. Feastbillty study of	lan of each port	(Lastac cardenas) 3. CONTENTS OF MAJOR PROJECT(S) (Lastac cardenas) Revenent etc.: 49050 s.m Pavement etc.: 13300 s.m Guittits: 1 nos Gunty Crane: 1 nos Gunty Crane: 1 nos Others; 1 nos Others; 1 nos Others; 1 nos Others: 1 nos	(Description) - Container tendinate are schemised to start operation in Container tendinate are schemised to start operation in Marianillo container tendinal. Larraro Cardenas: addition of a gentry crame. For the realization of efficient carop handling systems, some measures such as privatization are taken based on this study. (FY193) Overseas Survey) - The World Bank consitted 45 million dollar loan in order to implement the improvement plot of the poet to implement the improvement plot of million dollars.) - The project implementation (equipment procurement a port improvement) is accounted by the container of the container
8.DATE OF SAV	1988/10	Imp. Period: 1989.3-1990.6	(FY199) Overseas Survey) - Mantanillo Port Dec. 90-Van.9) - Equipment Procurement (US\$ 5.52 million) B9 - 94
9.CONSULTANT(S) Overseas Coastal Area E Nippon Koei Co., Ltd.	evelopment Institute	4FEASIBILITY AND Feasibility: EIRR1 29.05 FIRR1 10.06	- Lease Cardenas Port Dec.9 - Feb.94 Equipment Procurement (US\$ 8.18 million) Spanish Govn't and the World Bank provided financial resources.
10.STUDY TEAM No.of Members 17 Period Mar. 1989-J	5 ul.1990(17 months)	Conditions and Development Impacts: conditions: 1. The existence of the problem of superannuated low cargo handling productivity and shortsge of cargo handling facilities/equipment. 2. The forecast of an increase of the containerized cargo volume in the objective port. novelopment Impacts: 1. The future cargo volume could be treated based on the pivotal 2 ports 2. The project could create the new employment in the objective port and is expected to make the ripple effect to the other industry.	[FY1994 Denestic Survey] No additional information. [FY1995 Overseas Survey] The implementation of this project has been permitted by the Administrative Office of the Port. The tasks such as consultant
Total M/M 75.33 11.ASSOCIATED AND/OR SUBCONTRACTED STUD O/D analysis of the Par	PΥ		2.MAJOR REASONS FOR PRESENT STATUS In Mexico. Improvement of the efficiency of the port and maritime is considered important for the premation of export.
12 EXPENDITURE Total Contracted	261,520 (¥'000) 252,593	STECHNICAL TRANSFIER The method of port planning detail design and the ways of economic and finacial analysis are transferred.	3.PRINCIPAL SOURCE OF INFORMATION (6. (6)

Compiled Sep.1995 Revised Mar.1996

CSA MEX/S 306/9

C3/ NIBA/3 300/74						
I. OUTLINE	OF STUDY	II. SUMMARY OF	STUDY RESULTS	III. PRES	SENT STATUS OF ST	UDIED PROJECT
I.COUNTRY 2.NAME OF STUDY Wastewater Treatment District of Mexico	Mexico : in the Pederal	LSITE OR AREA Mexico OF and a part of Mexico Stat 2.PROJECT COST 1) (USS1,000) 2)	te Total Cost Foreign Cost	I.PRESENT STATUS	Completed or in Progress Completed Partially Completed Implementing Processing	Promoting Delayed or Suspended Discontinued or Cancelled
3.SECTOR Fublic Utilities/Sewerag 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Department of the Federa 7.OBJECTIVES OF STUDY 15. implement the Feesible of the Federal which was selected Government. Sewage treatment in the Feesible of the Feesi	F/S lity Study for the triplant at Texceco Gran from M/P of Mexican then throcess of much crty mod will be applied.	3. CONTENTS OF MAJOR PROJECTIS) Despite of presence of the sewage of people of presence of the sewage of people of the sewage of people of the sewage of th		level and has until 2nd sem operate the p The implements Definite an operation & m sewage will b Supervision		fund should be selected ise has to construct and in the plant for 20years on under EOT system. ciation and the fees for the volume of treated be done by CECF and the
8.DATE OF S/W	1993/10	Imp. Period:				
9.CONSULTANT(S) Pacific Consultants Inte	ernational	4.FEASIBILITY AND Feasibility: ITS ASSUMPTIONS Yes/No	EIRR1) HRR1) EIRR2) HRR2) EIRR3) FIRR3)			
IO.STUDY TEAM No.of Members 7 Period Feb. 1994-Fe	b.1995(13 months)	Investribed in the regulations conce	he water quality and environmental d be improved until 1997 upto the level erned. All of collected sewage will be and utilized as for the irrigation he disease germs and the eggs of			
					A A A A A A A A A A A A A A A A A A A	
Total M/M 38.00	Japan Field 15.00 23.00			2.MAJOR RE	ASONS FOR PRESENT STAT	08]
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Survey for ground condite and Environmental survey	Y tion, Topographic survey			<u>.</u> 1		
12 EXPENDITURE Total Contracted	170,954 (¥'000)	Interpretation terrefore (1) Technolog	three(3) subjects have been made for gy of the treatment of dirty mud, t process and, (3)Recycle of the treated	1	SOURCE OF INFORMATION	

CSA NIC/S 306/93			Revised Mar. 1990
I. OUTLINI	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY 2.NAME OF STUDY	Nicaragua	LSITE OR AREA the area of the southern side of take Managus (about 880km2)	I.PRESENT Completed or in Progress Promoting STATUS Completed
Water Supply Proje	ct in Managua	Total Cost Local Cost Foreign Cost 40,000 8,000 32,000 (US\$1,000) 23 61,000 12,000 49,000 33,000 6,000 27,000	O Pantially Completed ☐ Delayed or Suspended ☐ Implementing ■ Processing ☐ Discontinued or Cancelled
3.SECTOR Social Infrastructu/Wat 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENC INDER	F/S	3 CONTENTS OF MAJOR PROJECTIS) 1) Development of a new groundsater source in North Ticuanteps in the Eastern sub-area and installation of the facilities for water conveyance to the existing water distribution pend in Altamira. 2) Development of residual groundsater sources in the Eastern sub-basin and installation of the facilities for water conveyance to the existing water distribution pond in Americas no.4. 3) Of coundwater development in the area adjacent to the east of the Study Area and installation of the facilities for water congeyance to Managua city.	The basic design study of the grant aid project aimed to develop a new groundwater source in North Ticonatepe and to install the facilities for water conveyance to Altamira water distribution pond statted in July 1994. (FY1995 Domestic Survey)
7.OBJECTIVES OF STUDY to evaluate the ground basin and to make a co development	Mater potential of Managua uncrete plan for groundwater		
8.DATE OF SAV	/	Imp. Period: 19931996. 19951999. 19972000.	
9.CONSULTANT(S)		4FEASIBILITY AND ITS ASSUMPTIONS Peasibility: EIRR1) EIRR2 EIRR2 EIRR3 EIRR3 EIRR3 EIRR3 EIRR3 EIRR5 E	
110101 11111111111	10 Sep.1993(22 months)	The make possible to increase the water use amount from 1701 to 2001 par day per head. lite make possible to do away with overpumping of groundwater in the Central sub-basin.	
Total M/M 61.03 ILASSOCIATED AND/OF SUBCONTRACTED STU			2.MAJOR REASONS FOR PRESENT STATUS
12 EXPENDITURE Total Contracted	284,760 (¥'000) 272,730	STECHNICAL TRANSFER techniques for groundwater development and groundwater management	3.PRINCIPAL SOURCE OF INFORMATION

Compiled Sep.1995 Revised Mar.1996

CSA NIC/S 201/94			Revised Mar. 1996
I. OUTLIN	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY 2.NAME OF STUDY Road Improvement a	Nicaragua and Rehabilitation	I.SITE OR AREA whole of the country 2.PROJECT COST MP 1) 479 Local Foreign	I.PRESENT STATUS Completed Partially Completed Delayed or Suspended Displacementing
		(US\$1,000) 2) Cost Cost Cost	O Processing Discontinued or Cancelled
3.SECTOR Transportation/Road		3) 3.CONTENTS OF MAJOR PROJECTIS) Following projects of the road arrangement have been selected as for the	At the beginning, the financing from CABEI was expected. Mowever, it is still not granted as yet. Afterwards, an idea to get the finance from OECF came out, but the financing of OECF for Nicarayua is not commenced.
4.REFERENCE NO. 5.TYPE OF STUDY	M/P+F/S	feasible projects. IlManagua - Masaya (8.52km) :Level or two level crossing, expansion of coad width to 4 lanes, reconstruction of	
6.COUNTERPART AGENC Ministry of Constructi	ion and Transportation (NCT)	2 bridges, renovation to pavement and partial course. 2 Menagua - Massya (17.38km) jenovation of the structure mainly jenovation of the structure mainly	
national biobways in b	n for arrangement of main	### ### ##############################	
8.DATE OF SAW 9.CONSULTANT(S) Central Consultant, In Nippon Koei Co., Ltd.	ne.	Into, Period: 19972000.	
		4.FEASIBILITY AND Feasibility: EIRR1 45.00 FIRR1	
110101 11101110110	14 Jun.1994(17 months)	Conditions and Development Impacts: conditions: Construction Period 1997-1999, Project Life 23years, Price Level as of 1993, Renained Value - None. Development Impacts: 11Manegua - Hobaya : Reinforce the capacity and contribute to economical activities as for a model case for the	
Total M/M 68.26 ILASSOCIATED AND/O SUBCONTRACTED STU Survey works of trait	R DY ic, Environmental influence,	ZIManagua - Tipitepa : committica and shopping to Managua become more : committies and shopping to Managua become more : committee and shopping to Managua become agricultural products will be increased. 3]Nandaime - San Venito: Sater drive for big vehicles, Managua and Massaya will be to the state of the same shopping to	2.MAJOR REASONS FOR PRESENT STATUS Ability of repayment?

Contracted 和名 ニカラグァ道路網整備計画調査

Total

12.EXPENDITURE

3.PRINCIPAL SOURCE OF INFORMATION

5.TECHNICAL TRANSFER

286,063 (¥'000) Technologies of the road design, especially pavement techniques and survey works of environmental influence were transferred.

CSA PAN/S 501/81			Revised Mar.1996
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
I.COUNTRY	Panama	LSITE OR AREA	1.PRESENT In Progress or In Use
2.NAMEOFSTUDY Topographic Mapping Project of the		Northwest region along the Caribbean coast(8,000 sq.m)	STATUS [3] Delayed [4] Discontinued
Caribbean Coastal	Area	2.PROJECT COST Total Cost Local Cost Foreign Cost (US\$1,000) 1)	(Description) (Py1931 Overseas Survey) The result of the study is utilized especially in electricity, communication, broadcasting and social infrastructure. 'The map will be utilized for the future development planning.
3.SECTOR Social Infrastructu/Sur	rvey & Mapping	2) 3.CONTENTS OF MAJOR PROJECT(S)	te utilized for the future development planning. (FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information.
4.REFERENCE NO.		National base maps (scale:1/50,000, 12 plates)	
5.TYPE OF STUDY	Basic Study		
6.COUNTERPART AGENC Instituto Geografico I			
7.OBJECTIVES OF STUD Preparation of basic planning	Y Information for development		
8.DATE OF SAV	1978/6		
9.CONSULTANT(S)		4.CONDITIONS AND DEVELOPMENT IMPACTS	
	ring Consultants Association	Maps will be used as the basis for planning hydropower generation, and road and railway construction.	
			[- : : : : : : : : : : : : : : : : : :
10.STUDY TEAM			
	20		
Period Jan. 1979-	May.1980(17 months)		
Total M/M	Japan Field	 A finite section of the control of the	2.MAJOR REASONS FOR PRESENT STATUS
II.ASSOCIATED AND/OI SUBCONTRACTED STU			
		S.TECHNICAL TRANSPER	3.PRINCIPAL SOURCE OF INFORMATION
Total	442,096 (¥'000)	OUT and lectures on aerophotography and cartography	0. (2)
Contracted		I and the second of the second	

和名 カリブ海沿岸地区地図作成事業

[M/P,Basic Study,Other]

Compiled Mar. 1990

CSA PAN/A 501/83			Revised Mar.1996
I. OUTLINI	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
1.COUNTRY 2.NAME OF STUDY Fisheries Resource	Panama S Survey of the	LSITEOR AREA In the water basin within 200 nautical miles, deeper than 100m, in the offshore of Caribean Sea of Republic of Panama	LPRESENT STATUS In Progress or In Use U Delayed U Discontinued
Atlantic Coast 3.SECTOR Fisheries/Fisheries		2.PROJECT COST Total Cost Local Cost Foreign Cost	(Description) (FY1991 Overseas Survey) This study drew international attention to the fisheries resources of the Atlantic Ocean. Three groups of private firms including Japanese firms are interested in investing in the fishery. The result of the study is fully utilized.
4.REFERENCE NO. 5.TYPE OF STUDY	Basic Study	The main objection of this study is to make up basic datas of fisheries resources distribution in carrebean sea area. The study is considered to distribute the nation's large and middle scale fisheries.	(FY1995 Domestic Survey) No additional information (due to break up of the consultant in charge of this project.)
6.COUNTERPART AGENC Bureau of Marine Resou Commerce and Industry	Ϋ́	-Survey of fishery development in the shore of the Atlantic Ocean (1981,82,83) -Improvement of fishing base	
7.OBJECTIVES OF STUDY Basic Sorvey of nation			
8.DATE OF SAV	T 1981/11		
9.CONSULTANT(S) Universal Fisheries In	ic.	4.CONDITIONS AND DEVELOPMENT IMPACTS Expansion of fishing places which have been limited to shripp fishing in the shore of the Atlantic Ocean - Development of Pink Shripp - Comprehensive and long-term development plan is necessary including the Pacific. Ocean side for tuna and spearfish.	
No. of Members Period Jun. 1981-N] 3 Mar.1984(34 months)		
Total M/M 23.00 HASSOCIATED AND/OR SUBCONTRACTED STUI			2.MAJOR REASONS FOR PRESENT STATUS
12 EXPENDITURE Total Contracted	504,162 (¥'000)	S.TECHNICAL TRANSFER two trainees	3.PRINCIPAL SOURCE OF INFORMATION (i), (ii)

Compiled Mar.1990 Revised Mar.1996

CSA PAN/A 502/8:

CSATAINA 302/04				10717.010
I. OUTLINE OF STUD	Y	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RE	SULTS
1.COUNTRY Panama	1	I.SITE OR AREA	1.PRESENT In Progress or In Use	
2.NAME OF STUDY		An area of 1,534 sq.km of Donoso district in Colon state of Panama	STATUS Delayed	
Inventario forestal del distr			☐ Discontinued	
Donoso	[2	2 PROJECT COST Total Cost Local Cost Foreign Cost	(Description)	
	Γ.	(US\$1,000) 1)	(FY1991 Overseas Survey)	nama during the
		2)	study are utilized in the formulation of guidelines f resources development.	or forest
3.SECTOR Forestry/Forestry & Forest Conser	vation	3.CONTENTS OF MAJOR PROJECT(S)	(FV1994 Domestic Survey)(FY1995 Domestic Survey)	
		Cuidabine for forestry development plan in undeveloped area in Donoso	No additional information.	
4.RÉFERENCE NO.		district in Colon state was prepared containing the following components:		
	- Country	2)Promotion of forest products industry 3)Enforcement of land use planning		
6.COUNTERPART AGENCY National Direction of Renewable Natu		Enrichment of forest experimentation and study		
National Direction of Kenewable Natu	iai kesources	医甲基基氏结合 网络人名英格兰人姓氏克勒		
[1] First Carlo Decision				
7.OBJECTIVES OF STUDY			변용적의 등실 원자 한테 그림 물이	
To contribute to the socio-economic of the study area and Republic of Fa	development			
of the study area and Reposite of the				
Note that the second of the				
			lago elektroliko bilitatzak	
8.DATE OF S/W 198	32/9	A CONTRACTOR AND DEPUT OF THE PROPERTY OF THE PARTY OF TH		
9.CONSULTANT(S))-	4.CONDITIONS AND DEVELOPMENT IMPACTS Development of roads for regional development are indispensable		
Japan Forest Technical Association		immediately, starting from the pacific coastal road because there are no		
		Forest is diminishing by shifting cultivation, but it is possible to	In the control of the	
		use plan and forest planning system.	【PACE TO SECTION AND A MARKET NEW YORK	
10.STUDY TEAM	1			
No.of Members 26				
Period Dec.1982-Mar.1985(28	months)			
			2 MAJOR REASONS FOR PRESENT STATUS	
Total M/M Japan	Field			
137.00 58.00	79.00			
11.ASSOCIATED AND/OR				
SUBCONTRACTED STUDY			1	
Wetrar suoredrabut				
12 EXPENDITURE		5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION	
Total 32	5,490 (¥'000)	- Traince acceptance - Out of forest survey	①、②	
Contracted 29	5,242	- Guidance for how to analyze topography - Method of data processing		-

Compiled Mar, 1988 Revised Mar. 1996

CSA PAN/S 302/84 III. PRESENT STATUS OF STUDIED PROJECT II. SUMMARY OF STUDY RESULTS 1. OUTLINE OF STUDY LPRESENT Completed or in Progress | Promoting LSITE OR AREA **LCOUNTRY** Panama STATUS O Completed 2.NAME OF STUDY Panama Metropolitan Area O Partially Completed Delayed or Suspended Urban Transport Project in the Panama Total Cost Local Cost Foreign Cost () Implementing Metropolitan Area (ESTAMPA II) 2.PROJECT COST 36,907 41,570 77.577 Discontinued or Cancelled O Processing (US\$1,000) 70.940 64,450 135,390 2) 2.274 3) 4,720 2.446 (Description) A detailed design study on new road construction was completed in 1990 by 10B finance. The priority of the project is high, but the implementation has been postponed indefinitely due to the continued 3.SECTOR 3.CONTENTS OF MAJOR PROJECT(S) Fransportation/Urban Transportation 1) Construction of Corredor Norte and arterial roads connecting thereto. political destabilization. Corredor Norte Via El Paical Extension 4.REFERENCE NO. (FY199) Overseas Survey) Financial assistance was requested to Japan, the Korld Bank and the IDA. However, it was not succeeded because of the invasion of Fanama by the United States. Domestically, financial assistance is planned to be requested to Banco Fried con obras Concesionadas. Via Martin Sosa Extension Via Cerro Ancon Extension F/S 5.TYPE OF STUDY Via san Miguelito Ceste 2) Existing Road Improvement Projects 6.COUNTERPART AGENCY Via Espana Ministry of Public Works - Via Bolivar, Sna Miguelito Intersection (FY1992 Overseas Survey)
In spite of the final design plans, the government of Panama does - Via Cerro Ancon not have enough disposable finance for the implementation of this project: Therefore, there are negotiations to assure the finance through either international loans or administrative grants. - Via El Paical Bus Center Projects (four bus centers) 4) Bus Maintenance Center Project 7.OBJECTIVES OF STUDY (FY1994 Domestic Survey) A Feasibility study for the priority projects No additional information. selected through the master plan study (FY1995 Domestic Survey) PYSCA, a Panamanian representative of a Mexican Contractor, obtained the approval to be the contractor of Corredor Norte as a part of Panama-Colon express highway. 1987.1-1990.6 1983/3 Imp. Period: 8 DATE OF SAV FIRRU 26 40 FIRRI) 4.FEASIBILITY AND Feasibility: 9.CONSULTANT(S) FIRR2) FIRR2) ITS ASSUMPTIONS Yes/No Yachiyo Engineering Co., Ltd. FIRR3) EIRR3) Conditions and Development Impacts: Committude and Devictoryment impacts.

1) The evaluation of all road projects as one large project package is highly significant from an economic standpoint with (IPR) of 26.41. When this 'package' is opened and separated into new road construction projects and existing road improvement projects, however, the forest shows an IRR of 31.44 and the latter, only 10.74 indicating the law economy. In IRR of 51.8% and the latter, only 10.76 indicating the law economy of improvement projects.

2) The finantial internal rate of return [FIRR] of bus center operation will be 10.6% and the generation of fund to pay a 10% per annum interest will be possible. [EIRR] is calculated at 9.6%. 10 STUDY TEAM No.of Members MAIL be possible. (EIRR) is calculated at 9.6%.

3) Commercial base management is difficult. FIRR calculated for the bus maintenance center as a whole is low att.3%. But the construction of bus maintenance center is an essential for the purpose of the improvement of bus operation rate and higher quality bus service. Period May. 1983-Jan. 1985 (20 months) 2.MAJOR REASONS FOR PRESENT STATUS Field Total M/M Japan Political and economical instability were created by the invasion. 13.84 71.10 84.94 High priority 11.ASSOCIATED AND/OR (FY1992 Overseas Survey) SUBCONTRACTED STUDY Problems in obtaining funds. Topographic and geological survey. - Air photograph and mapping (Sub-Contract with local consultants) 5.TECHNICAL TRANSFER 3.PRINCIPAL SOURCE OF INFORMATION 1) OJT : Seminar on urban transport in Panama City 2) Acceptance of trainees : Training on specific fields for five 12 EXPENDITURE 741,557 (¥'000) 0. 0 Total counterparts 3) Use of local consultants : Soil survey

Contracted 和名 パナマ首都圏都市交通計画 295,841

CSA PAN/S 301/84			Revised Mar. 1996
I, OUTLIN	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY 2.NAME OF STUDY Short-Wave Broadca	Panama sst Station Project	Entire country	1.PRESENT Completed or in Progress Promoting STATUS Completed Promoting Operating Delayed or Suspended Implementing Discontinued or Cancelled (Description)
3.SECTOR Communications & B/Bro 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCE Ministry of Interior a 7.OBJECTIVES OF STUDY Construction planning wave breadcasting	P/S	3.CONTENTS OF MAJOR PROJECTIS) Necessary experimental equipment and facilities are proposed to undertake the following services: (short-wave) 3) International broadcasting (short-wave) 3) International broadcast relay (short-wave)	(FY1991 Overseas Survey) The hearing of the background of the project was impossible owing
8.DATE OF S/W 9.CONSULTANT(S)	1983/11	Imp. Period: 1986 1989. EIRR1	
Integrated Technology 10.STUDY TEAM No.of Members Period Jun. 1984-	9 Jan.1985(7 months)	IIS ASSUMPTIONS Yes EIRR) FIRED Conditions and Development Impacts: 1) There are all the difficult terrains, the coverage of these stations are inadequate. The short-wave station will improve the situations are inadequate. The short-wave station will improve the situation. 21 Panass can participate in the international broadcasting network. If the station of the specifical relay centers connecting South and North America.	
Total M/M 11.ASSOCIATED AND/OF SUBCONTRACTED STU			2.MAJOR REASONS FOR PRESENT STATUS
None 12 EXPENDITURE Total Contracted	53,132 (¥7000)	S.TECHNICAL TRANSFER ONT in every field during the technical cooperation at the site.	3.PRINCIPAL SOURCE OF INFORMATION ①, ②

Compiled Mar. 1990

Revised Mar. 1996 CSA PAN/S 303/87 III. PRESENT STATUS OF STUDIED PROJECT II. SUMMARY OF STUDY RESULTS 1. OUTLINE OF STUDY 1.COUNTRY 1.SITE OR AREA LPRESENT Completed or in Progress B Promoting Panama STATUS Completed 2.NAME OF STUDY Area along the Bay at the southern Panama metropolitan area Corredor Sur Development Project in the O Partially Completed 171 Delayed or Suspended Local Cost Foreign Cost Panama Metropolitan Area(ESTAMPA III) Total Cost 2.PROJECT COST O Implementing 165,120 92.880 1) 258,000 Discontinued or Cancelled (US\$1,000) Processing 2) 3) (Description) The preparation for loan application was under way in late 1989, but the application has been postponed indefinitely due to the 3.SECTOR 3.CONTENTS OF MAJOR PROJECT(S) fransportation/Urban Transportation political destabilization. Expansion into 6 lanes, new construction: Corredor Sur I (FY1991 Overseas Survey)
Ministry of Public Morks is planning to request budget for Fondo de Preinversion. 4.REFERENCE NO. (in the built-up area) New construction of 6 lanes and 4 lanes: S.TYPE OF STUDY F/S Corredor Sur II (suburbs) (FY1992 Overseas Survey)
There are no final design plans. There are attempts to obtain funds for both construction and final design plans of the project 6.COUNTERPART AGENCY Major access road Expansion into 6 lanes, new construction: Ministry of Public Works either by international loans or administrative grants. Expansion into 4 lanes: about 2km Extension of Corredor Sur (FY1994 Domestic Survey) No additional information. LOBIECTIVES OF STUDY (FY1995 Domestic Survey) The Government of Panama is now searching the company who will F/S study of South Link Road Construction Project subscribe for the concession. that was selected as priority project in the Master Plan 1988. -1999. 1987/2 8.DATE OF SAV Imp. Period: EIRRI) FIRR1) 4.FEASIBILITY AND 9.CONSULTANT(S) Feasibility: EIRR2) EIRR2) ITS ASSUMPTIONS Yachiyo Engineering Co., Ltd. Yes EIRR3) FIRR3) Conditions and Development Impacts: Londitions and Development Impacts:
1) As the results of cost/benefit analysis, EIRR for the project is estimated at 10.4 considering vehicle operating cost savings and passenger time savings. From and economic standpoint, the implimentation of the project as a whole is well justified with a high EIRR. The project will fuffill its purpose as an additional ban atterial road to increase smooth traffic flow in the east-west direction of the Metroplitan Area and to assist in mitigating the traffic congestion in 10.STUDY TEAM No.of Members 11 that area. Period Jul. 1986-Feb. 1988 (20 months) In addition to the above 1), expecting
 Saving transportation energy
 Creation of employment demand Impact large scale urban and roadside development Total M/M Field 2 MAJOR REASONS FOR PRESENT STATUS Japan Restraint disorderly sprawlling Political and economic instability were created by the invasion of 3.71 56.92 60.63 Panama by the United States.
- Delay of Diseno Final 11.ASSOCIATED AND/OR low priority SUBCONTRACTED STUDY (FY1992 Overseas Survey) - The absence of final design plans. Traffic Survey, geological and soil survey, topographic and aerial survey, and mapping 5.TECHNICAL TRANSFER 1) OUT : Caluculation by the use of personal computer, 2) Accepted 3.PRINCIPAL SOURCE OF INFORMATION 12 EXPENDITURE 278,876 (¥'000) trainees: Three (1), 3) Report : Joint works for preparation of English reports in Pansma, 4) Use of local consultant: Topographic survey, geological and soil survey, and 5) Prevision an instruction of equipment

Total Contracted 和名パナマ市南部回廊建設計画

259,501

CONTINUO BIOTO		
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY Panama	LSITE OR AREA	1.PRESENT Completed or in Progress Promoting
2.NAME OF STUDY Rehabilitation Plan and Container	Port of Cristobal and Surrounding Area	STATUS Completed Delayed or Suspended
Terminal Operation Plan at the Port of	2.PROJECT COST M/P 1) Local Foreign	O Implementing
Cristobal	(US\$1,000) 2)	O Processing
	F/S) 110,827 21,096 89,731 2) 330,925	(Description)
3.SECTOR	3)	Government of Panama is very interested in receiving financial aid from Japan for the implementation of the project. Necessary
Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)	arrangements are currently being made.
4.REFERENCE NO.	Master Plan(2010) Project 1: New Container Teminals(Telfers Island)	(FY1995 Domestic Survey) No additional information.
5.TYPE OF STUDY M/P+F/S	Short Term(2000) : Container Berth(d*13.0m,1=300m), Area 10.5ha, Container Crane 2, Transfer Crane 7	
6.COUNTERPART AGENCY	Long Term(2010) : Container Berth(d=13.0m, I=600m), Area 21.0ha, Container Crane 4, Transfer Crane 14	
National Port Authority	Project 2 : Modernization of Existing Container Terminal	
	Short Term(2000): Expansion 1.6ha, Transfer Crane 1, (additional) Long Term(2010): Expansion 3.3ha, Transfer Crane 4, (additional)	
7.OBJECTIVES OF STUDY	Project 3 : Modernization of Exisiting Piers and Mole Area Short Term(2000) : Pier No.7:Demolition of Quay Shed 7,900m2.	[1802년 학생 조건병 12 - 원년 발생 발표]
To formulate the M/P for the port of Cristobal	Mole: Pavement for Open Storage Area 5,000m2. Long Term(2010) : Pier No. 8: Reform to Passenger Teminal, Mole: Pavement	[18] \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P
for the period up to the year 2010. And to conduct the F/S of the short term	[or Open Storage Area etc. 20,660m2	
improvement plan for the port of Cristobal for the period up to the year 2000.	Project 4: Access Road Short Term(2000): Access to Boliver, Jighway(2 lanes) 2.3km	
the period up to the year book	Long Term(2010) : Bypass Route to R16(4 lanes) 3.0km	
8.DATE OF S/W 1991/12		
9.CONSULTANT(S)		
Overseas Coastal Area Development Institute	Inn Parial: 19942000. 20012010.	• The second of the second
Pacific Consultants International	1111D. FC1100.	to recommend the control of the cont
	LITS ASSEMPTIONS PERSONNEL FIRR2) FIRR2)	[[[[[[[[[[[[[[[[[[[[
	EIRR3) FIRR3)	
10.STUDY TEAM	Conditions and Development Impacts:	
No.of Members 10	IIIn the 'without case', no investment is made for the new container terminal at Telfers Island. Excess portion of potential cargo will be	
Period		
	lost. 2)Benefit is measured by increase of employee earnings, tax revenue and decrease in container dwelling time in the yard. FIRR	The state of the s
Total M/M Japan Field	3) Present tariff rate will be maintained.	2.MAJOR REASONS FOR PRESENT STATUS
67.40 28.50 38.9	0 Economic Development 4)This project contributes to industrial development and improvement of	
H.ASSOCIATED AND/OR	the employment condition to a great extent, as a social infrastructure supporting transit trade in the free zone.	
SURCONTRACTED STUDY		
Geotechnical survey, Topographic survey		
12.EXPENDITURE	S.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION
Total 275, 065 (¥'000	Training on planning and technical aspects in Panama Counterpart training in Japan	1
Contracted 266,997		