Compiled Mar, 1986 Revised Mar. 1996 ASO PAK/S 202B/81 III. PRESENT STATUS OF STUDIED PROJECT I. OUTLINE OF STUDY II. SUMMARY OF STUDY RESULTS **LCOUNTRY** SITE OR AREA LPRESENT Pakistan Completed or in Progress Promoting STATUS 2.NAME OF STUDY Completed Karachi Introduction of Containerization Partially Completed Delayed or Suspended 313, 432 Local 200,515 M/P I) 112, 917 Foreign PROJECT COST O Implementing 301,984 Cost 107,472 Cost 194,512 2) Discontinued or Cancelled (US\$1,000) O Processing -115,472 43,299 72.173 E/S 1) 64,424 (Description) 103.018 38,594 2) 3.SECTOR 65,904 20,560 -The basic infrastructure was constructed in 1986 as 1st stage with 3) ADB loan in the Qasim Port.

-After the 1st stage project, there was an expansion project in the port, but the Master Plan proposed in the JICA study did not suit the Transportation/Port CONTENTS OF MAJOR PROJECT(S) M/P> Select and compare two ports, karachi port and Qasin port, as actual conditions of the port. Therefore, a review of the Master Plan was required and the Government of Fakistan contacted the UK for assistance. However, no action has been taken to date to implement 4.REFERENCE NO. Set up an inland CFS in Lahore. Main worksl S.TYPE OF STUDY M/P+F/S ong-term project: the restudy. Container terminal: 6 berth(New construction)
Inland CFS: 50 ha
Irgent improvement plan: 6.COUNTERPART AGENCY Container Terminals at Karachi Port and Port Qasim will be developed by private sector. Ports and Shipping Wing, Container terminal; 2 berth(Qasim)
Inland CFS: 30 ha(Lahore), Railway transport Ministry of Communication (FY1993 Overseas Survey)

It is going to be implemented during the period from June, 1994 to June, 1996 by means of the financing to be arranged by the private sector in Australia with an amount of Rs. 160 million.

The location of the container terminal at Port Qasim has been changed by the private sector who wishes to save the investment. And the private sector offerred to establish two berths of container terminal, each bearth having 300 meters guay wall. F/S>Urgent Improvement Plan Oasim Larachi 7.OBJECTIVES OF STUDY ontainer berth 282,400sq.m 5,500m Preparation of long-term project and short-term 282,400sq.m ontainer Terminal Railway 11.700m developmet plan of container terminal Budget 1) for Karachi Port, 2) for Qasim Fort and FIRR 3) for Inland CFS (FY1994 Domestic Survey) No additional information. 1980/7 (FY1994 Overseas Survey) 8.DATE OF S/W (1)Container terminal : Both Karachi and Quasim ports were reluctant to build container 9.CONSULTANT(S) terminals just after the F/S. No progress was found even when 12 years passed after the F/S. JICA's M/P is not reconciled. Overseas Coastal Area Development Institute 1982.1-1986.12 Imp. Period: According to the policy change of the government, a policy of privatization promotion was employed. The private sector is now examining a plan to change the existing berth at Karach and 11.20 14.30 FIRR1) EIRRI) 4.FEASIBILITY AND Feasibility: Qasim ports to the container terminals thereat. A private firm is negotiating with Karachi port authority about a transformation project of a container terminal based upon BOT EIRR2) 12.20 FIRR2) ITS ASSUMPTIONS EIRR3) FIRR3) Conditions and Development Impacts: **10.STUDY TEAM** An Australian private firm is planning to transform existing two berths (total cost: A\$ 160mil., June 1994-June1996). A civil lawsuit concerning the company's bid is under deliberation (the Australian firm won at the high court). The container terminal plan at Qasim port was partially changed (some buildigns were <H/P>There is a tendency to increase containerization in the world. It is possible for karachi Fort to make efficient the existing cargo handling facilities and deal with the container cargo which is expected to rapidly No.of Members Period Nov. 1980-Mar. 1982 (16 months) increase in the near future, and to improve economic activities in Pakistan by implementating this project. <F/S>[Conditions] relocated from the west bank, according to the JICA plan, to the south). The size of the terminal is not changed. Container cargo volume is predicted based on the feasibility study in 1978 and 1980 by import/export cargo items and sea route. It is assumed that tariff is raised by 25% according to a financial analysis. Total M/M 2.MAJOR REASONS FOR PRESENT STATUS Japan 67.40 49.60 [Development Impact] It is possible for Karachi Port to make efficient the existing cargo handling facilities and deal with the container cargo which is expected to 11.ASSOCIATED AND/OR rapidly increase in the near future, and to raise economic activities in Pakistan by implementing this project SUBCONTRACTED STUDY STECHNICAL TRANSFER 12.EXPENDITURE 3.PRÍNCIPAL SOURCE OF INFORMATION Counterpart training (4 persons)
Instruction on method of port planning and feasibility study 142,298 (¥000) Total 1. 3. 6 Port and Shipping Wing, Ministry of Communication 134.266 Contracted

和名 コンテナ輸送導入計画

#### 状況 (要約表添付文書)

#### (M/P+F/S)ASO PAK/S 202B/81 Name of Introduction of Containerization Study Country Pakistan Type of Study M/P+F/S Transportation/Port Present Status: Partially Completed (Description) -The basic infrastructure was constructed in 1986 as 1st stage with ADB loan in the Casim Port. -After the 1st stage project, there was an expansion project in the port, but the Master Plan proposed in the JICA study did not suit the actual conditions of the port. Therefore, a review of the Master Plan was required and the Government of Pakistan contacted the UK for assistance. However, no action has been taken to date to implement the restudy. (FY1991 Overseas Survey) Container Terminals at Karachi Port and Port Qasim will be developed by private sector. (FY1993 Overseas Survey) It is going to be implemented during the period from June, 1994 to June, 1996 by means of the financing to be arranged by the private sector in Australia with an amount of Rs. 160 million. The location of the container terminal at Port Qasim has been changed by the private sector who wishes to save the investment. And the private sector offerred to establish two berths of container terminal, each bearth having 300 meters guay wall. (FY1994 Domestic Survey) No additional information. (FY1994 Overseas Survey) (1)Container terminal Both Karachi and Quasim ports were reluctant to build container terminals just after the F/S. No progress was found even when 12 years passed after the F/S. JICA's M/P is not reconciled. According to the policy change of the government, a policy of privatization promotion was employed. The private sector is now examining a plan to change the existing berth at Karach and Qasim ports to the container terminals thereat. A private firm is negotiating with Karachi port authority about a transformation project of a container terminal based upon BOT method: An Australian private firm is planning to transform existing two berths (total cost: A\$ 160mil., June 1994-June1996). A civil lawsuit concerning the company's bid is under deliberation (the Australian firm won at the high court). The container terminal plan at Qasim port was partially changed (some buildigns were relocated from the west bank, according to the JICA plan, to the south). The size of the terminal is not changed. (2) Inland container freight station (ICFS) The LCFS is not built yet at Labore The ICFS is not built yet at Lahore. In December1994, Pakistan Railways presented a conceptual design to build ICFS changing the construction site. Sheikhupura at the northwestern district was selected for the location instead of Kahna Kacha at the south of Lahore. Implementation based upon private funds, such as BOT, is now under deliberation.

(FY1995 Domestic Survey)
No additional information,

ASO PAK/A 301/82			Revised Mar. 1996
I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY  2.NAME OF STUDY  Agricultural Develowidening of Pat Fee		1.SITE OR AREA  Kachhi Plain, Baluchistan Province (Head of Indus River) Area 250,000 sq.m  2.PROJECT COST  Total Cost Local Cost Foreign Cost  1) 193,810  2) 172,000	LPRESENT STATUS Completed or in Progress Promoting Completed Partially Completed Delayed or Suspended Implementing Processing Discontinued or Cancelled
3.SECTOR Agriculture/Irrigation, 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Ministry of Economy, Ba Bureau of Water Power G 7.OBJECTIVES OF STUDY Feasibility study on th irrigation and drainage	luchistan Provincial eneration	3) 3.CONTENTS OF MAJOR PROJECT(S)  - Desert Pat Feeder canal: 11.1km Pat Feeder canal: 187.2 km Extension of Distributaries: 375 km - Improvement and Construction of related canal structure - Construction of minor canal: 1,224km - Aerial survey  Note: The project cost 1) above is for case 3 and 2) is for case 4.	(Description)  (FY1992 Overseas Survey)  The proposed project is under implementation with ADB and OECF continuous and the Japanese grant aid.  Total investment cost: US\$ 142.6 million  Local currency: US\$ 70.83 million  Foreign currency: US\$ 71.77 million  Jan. 1986 ADB L/A signed (Rs.3.067 million)  Sep. 1987 OECF L/A signed (1,550 million yen)  The ADB loan finances the construction of Pat Feeder Canal (extension) and other facilities. 26% of the construction of the mai canal is now completed. (Sir MacDonald & Partners Ltd.)  The OECF loan was used for the preparation of maps and the purchase of construction equipment and vehicles. The tender was completed in Sept. 1992.  The Japanese grant aid was used to establish a pilot farm in the project area. In Feb. 1990, five Japanese experts have been sent in relation to the management of the pilot farm. In addition short-term expert (irrigation and water management) was sent in Oct, 1992.  Mar. 1988 E/N signed (1,668 million yen)
8.DATE OF SAV	1982/2	Imp. Period: 1982.6-1982.12  AEGACINI ITY AND 15 - 11114 EIRRI) 16.00 FIRRI)	(FY 1993 Overseas Survey) Unlined water courses were proposed. But now 10-30% Lining of water courses is provided like OEMM project. This change will be
9.CONSULTANT(S) Sanyu Consultants Inc.		4.FEASIBILITY AND ITS ASSUMPTIONS  Feasibility: EIRR1) 16.00 FIRR1)  EIRR2) 14.60 FIRR2)  EIRR3)  Fonditions and Development Impacts:	Project co-financed by IFAD. It is expected to start on outy-1994.  (FY1995 Domestic Survey)  ADB is implementing the construction work.
10.STUDY TEAM  No.of Members 13  Period Feb. 1982-Ja	2 an.1983(12 months)	[Conditions]  1) The incremental crop production was calculated as the direct benefit of the project.  2) The 1982 price is the standard price.  3) The price of the tradable goods is calculated from their world price.  4) The prices of the non-tradable goods were converted into the border price equivalents by making use of the conversion factors estimated in this study.  5) Opportunity cost of capital 12.5%	10% Lining of water courses is scheduled to be completed in June, 2002 with IFAD fund.
Total M/M 47.80 11.ASSOCIATED AND/OR	Japan Field 28.70 19.10	(Development Impacts) Planting will be done in 60% or 50% of the field in each planting period in the district of 250,000ha.  The EIRRs 1) and 2) above are for Case-3 and for Case-4.	2.MAJOR REASONS FOR PRESENT STATUS
SUBCONTRACTED STUD	127,562 (¥'000)	STECHNICAL TRANSFER  In the process of survey and study, technology was transferred to the local counterparts.	3.PRINCIPAL SOURCE OF INFORMATION
Total Contracted	119,996		0, 0, 3

ASO PAK/S 101/83			Revised mar. 1990
I. OUTLINE	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
1.COUNTRY  2.NAME OF STUDY National Transport	Pakistan Plan	1.SITE OR AREA  Entire country	I.PRESENT STATUS  Delayed Discontinued
2 OLOTOD		2.PROJECT COST  Total Cost Local Cost Foreign Cost  1) 2)	(Description)  The master plan was incorporated into the transport sector of the 6th Five-Year Development Plan (1983-88). Feasibility studies were undertaken on major airports (Karachi, Lahore and Islamabad).
3.SECTOR Transportation/(Transport	rtation in)General	3.CONTENTS OF MAJOR PROJECT(S)	(FY1993 Overseas Survey)  1) Motor way project is denied according to the results of this
4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENC	M/P	The study covered 1) roads and road transportation, 2) railways, 3) ports, 4) shipping, 5) aviation and airports, and 6) other transportation modes. Major proposals are as follows:  - Improvement of database on transport and traffic - Improvement and expansion of MIRC - Comprehensive study on inland water ways	survey.  2) Indas highway has been constructed by OECF loan.  3) Geometric Design has been utilized in North-West province.  4) In order to determine the method of traffic forecast,  NTRC and NHA have discussed which is better, AASHTO or  JICA cretiria.
Planning and Developmen		Introduction of containerization and related adjustments of transport modes	(FY1994 Domestic Survey) No additional information.
7.08JECTIVES OF STUDY			(FY1994 Overseas Survey)  Comprehensive recommendations based upon data (e.g., traffic volume, etc.) analysis were presented, and the M/P contributed a lot to determination of basic transportation policies.
Formulation of a master transport development	r plan for nation-wide		(FY1995 Domestic Survey) No additional information.
8.DATE OF S/W	1981/9	4.CONDITIONS AND DEVELOPMENT IMPACTS	<b>- </b>
9.CONSULTANI(S) Mitsui Knowledge Indust	try	[Development impacts] The comprehensive transportation development plan will contribute to the realization of the integrated and efficient transport system by reducing the diseconomy of sectionalism in development planning in terms of the mode of transportation. The most important point is to establish optimum mix of modes in development planning.	
10.STUDY TEAM  No.of Members 1	1.8		
	May.1983 (18 months)		
Total M/M	Japan Field		2.MAJOR REASONS FOR PRESENT STATUS
II.ASSOCIATED AND/OR SUBCONTRACTED STUL			
12.EXPENDITURE Total Contracted		5.TECHNICAL TRANSFER  1. Participation of 3 counterparts in JICA training program 2. OF	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、③

Compiled Mar. 1990 Revised Mar. 1996 ASO PAK/S 302/83 HI, PRESENT STATUS OF STUDIED PROJECT II. SUMMARY OF STUDY RESULTS I. OUTLINE OF STUDY LSITE OR AREA LPRESENT Completed or in Progress Promoting LCOUNTRY Pakistan STATUS O Completed 2.NAME OF STUDY Bara Bandah, Nowshera, Northwest Frontier Province O Partially Completed Pakistan Railways Locomotives Delayed or Suspended Local Cost Foreign Cost Manufacturing Factory Project Total Cost 2.PROJECT COST Implementing 40,000 25,000 66,000 1) Discontinued or Cancelled (US\$1,000)O Processing 2) (US\$1=13.8Rs) (Description) 3) 3.SECTOR It was decided to implement the project in accordance with the CONTENTS OF MAJOR PROJECT(S) ecommendations of the study team, and the work started with OECF Fransportation/Railway loans. Construction of a locomotive factory for domestic production of 25 diesel electric locomotives (50 locomotives in future) per year OECF loan agreement on the locomotive plant (9,760 million yen) Consulting service agreement signed Feb. 1984 4 REFERENCE NO. (1) Construction of locomotive factory 2) Domestic production plan May 1984 5.TYPE OF STUDY F/S 1st phase(to be completed in one year after the opening of the factory)
--- Domestic production ratio, 20%
2nd phase(to be completed in 2 to 5 years after the opening) --- 30-35% July 1984 1985 1989 Consulting service started D/D completed Evaluation of tenders completed 6.COUNTERPART AGENCY 3rd phase(to be completed in about 10 years after the opening --- 50% Ministry of Railways, the Government of Pakistan Feb. 1990 Construction started Installation of equipment started OECF L/A on the rehabilitation of locomotives Feb. 1991 Aug. 1993 (6,001 million yen) CECF L/A on the manufacture of diesel locomotives (6,067 million yen) Aug. 1993 7. OBJECTIVES OF STUDY (FY1993 Overseas Survey)
Construction was completed in December 1993. Transport demand forecast and calculation of the necessary number of locomotives, and F/S and basic design for constructing a locomotive 38 Diesel Locomotives (30 completed and 8 knocked down) were provided by using the Japan's Yen Loan (L/A in Dec.1980. The railway transportation capacity increasing project, 9 billion Yen). manufacturing factory (FY1994 Domestic Survey) No information. 1984.6-1989.6 1982/3 8.DATE OF SAV Imp. Period: E(RR1) 12.50 FIRRI) 10.00 (FY1994 Overseas Survey) LEEASIBILITY AND (FY1994 Overseas Survey)

After the completion of the factory, 5 diesel locomotives were built at the factory, with parts/devices purchased in February 1984 with an OECF loan. Moreover, L/A of another OECF loan (6.7 billion yen) was concluded in August 1994, and parts/devices for 18 diesel Feasibility: 9.CONSULTANT(S) E(RR2) FIRR2) ITS ASSUMPTIONS Japan Railway Technical Service EIRR3) FIRR3) locomotives will be purchased. Eight locomotives in the second year and ten in the third year will be produced at the factory using those Conditions and Development Impacts: parts/devices The market price of April, 1982 was chosen as a reference price. The project life is set at 33 years (30 years after completion of the (FY1995 Domestic Survey) No additional information. **10.STUDY TEAM** Development Impacts! Reinforcement of railway transport capacity will promote nationwide development and contribute towards activation of the economy in the No.of Members Northwest Frontier region where infrastructure is lacking. Period Mar. 1982-May. 1983 (14 months) A reduction in the use of foreign currency reserves is also expected because the supply of locomotives is at present entirely dependent on 2.MAJOR REASONS FOR PRESENT STATUS Total M/M Japan 59.70 14.74 74.44 11.ASSOCIATED AND/OR SUBCONTRACTED STUDY None 5.TECHNICAL TRANSFER 3.PRINCIPAL SOURCE OF INFORMATION 12.EXPENDITURE Two counterparts received training in Japan from JICA under the Colombo 168, 180 (1000) Total 0, 0, 0 143,335

{F/S,D/D}

Contracted

ASO PAK/S 303/84	:		والمرابع والم
I, OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY 2.NAME OF STUDY	Pakistan	1.SITE OR ARBA Islamabad City ,Rawalpindi City	LPRESENT Completed or in Progress Promoting STATUS Completed
Conduction of Water Islamabad/Rawalpino	from Khanpur to li	2.PROJECT COST   Total Cost   Local Cost   Foreign Cost   113,235   66,435   46,800   (US\$1,000)   2)   32,824   19,406   13,418	O Partially Completed ☐ Delayed or Suspended  Implementing O Processing ☐ Discontinued or Cancelled
		3) 24,529 15,835 8,694	(Description)
3.SECTOR  Public Utilities/Water  4.REFERENCE NO.	Supply	3.CONTENTS OF MAJOR PROJECT(S)  Equipment & Scale  Fan Water Conveyance Intake Tower: 6.74cu.m/sec  Facility Aquaduct 13.1km	Oct.1987 Request for Yen Credit from Pakistan Government Mar.1989 OECF loan agreement (12,518 million yen)  (FY1991 Overseas Survey) Mar.1990 - Peb.1991 D/D undertaken
5.TYPE OF STUDY	F/S	Water Filtration Max.Capacity 522,000cu.m/day	Mar.1990 - Feb.1991 D/D undertaken 1992 - 1994 The construction shall be implemented
6.COUNTERPART AGENCY Capital Development Aut	4	Distribution Main Line 700mm-1.5km[2 lines] 1.500mm-1.6km 1.500mm-6.5km[2 lines] Distribution Fond 13,000cu.m,PC Type X 2 16,000cu.m,PC Type X 1 Note: The a/m costs are 1 for Phase I, 2) for Phase II and 3) for Phase III	(FY1992 Overseas Survey) Although the OECF loan is already available, the source of the domestic fund (Rs. 1,870 mil.) has not yet been identified. Presently the Federal government is studying the funding possibilities. However in order for the project to start, funding from the State government would also be required.
7.OBJECTIVES OF STUDY Study on the establishm system in Capital Area	ent of stable water supply		<pre>(FY 1993 Overseas Survey) - Fund from Federal and Punjab government were decided,    So this project would be implemented until 1995 or 1996 Not only OECF but also Bank of Tokyo has fund for this project;</pre>
			(FY1995 Domestic Survey) It is expected to commence the implementation in the near future as the domestic financing become available.
8.DATE OF SAV	1983/12	Imp. Period: 19851992. 19921995. 19962000.	(FY1995 Overseas Survey) Feb. 1995 Construction stated.
9.CONSULTANT(S) Sanyu Consultants Inc. Nihon Suido Consultants	Co Ltd.	4.FEASIBILITY AND Feasibility: EIRR1) 6.20 FIRR1) 6.60  ITS ASSUMPTIONS Yes EIRR3) FIRR3)	(Oct. 1997 scheduled to be completed)
10.STUDY TEAM  No.of Members 9		Conditions and Development Impacts:  [Prior conditions] EIRR FIRR  1] Recovery Period 24 years 36 years 2] Discount Rate 0 0 0 0  Benefit(Rp.million) 19,858 27,260  Cost 1 6,410 17,040  Ret Current Value(') 13,248 10,219  Benefit Cost Ratio 3.078 1.608	
Period Jul.1984-M	ar.1985(9 months)	[Development Impacts] Supply of city water (Average 420,000T/day, Max. 523,600T/day) to 2 cities of Islamabad and Rawalpindi.	
Total M/M	Japan Field	(Target of completion: year 2000) The whole projects is divided into 3 phases and scheduled to take 15 years between 1985 and 2000.	2.MAJOR REASONS FOR PRESENT STATUS
61.98	21.49 40.49		The project was delayed due to the difficulties concerning the land acquisition and the fund-raising.
11.ASSOCIATED AND/OR SUBCONTRACTED STUD None	•		
:		5.TECHNICAL TRANSFER	A POLICIPAL COLINCE OF INFORMATION
12.EXPENDITURE Total	170,231 (¥'000)	Acceptance of 3 trainees from the local counterpart	3.PRINCIPAL SOURCE OF INFORMATION  (i), (ii), (iii)
I ~	166.887		

Compiled Mar.1990 Revised Mar.1996

I. OUTLIN	NE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS		
1.COUNTRY 2.NAME OF STUDY Integrated Rural	Pakistan  Development Project	1.SITE OR AREA  Islamabad capital territory (rural area: 59,500ha)	I.PRESENT In Progress or In Use STATUS I Delayed I Discontinued		
a encerop		Cost   Cost	(Description) (1) Basic design for MIRAD was done in 1988 (Nippon Giken). This was followed by detailed design, and construction in 1989. (2) Feasibility study for URID was done in 1988		
3.SECTOR  Agriculture/(Agriculture in)General  4.REFERENCE NO.  5.TYPE OF STUDY M/P  6.COUNTERPART AGENCY  Ministry of Local Government and Rural Development, Capital Development Authority (CDA)  7.OBJECTIVES OF STUDY  Draw up a M/P to enforce the basic conditions to increase agricultural products, opportunities of employment and revenues for farmhouses in order		3.CONTENTS OF MAJOR PROJECT(S)  (1) Model Integrated Rural Area Development (NIRAD) Project The project is located in rural area of Islamabad capital district. The project components include water supply by way of groundwater, small scale irrigation, road construction (35km), construction of agricultural machinery stations (10 units) and agricultural development stations (6 units).  (2) Upper Kurang Irrigation Project (UKIP) The project is located in rural area of Islamabad capital district. Water source will be from the surface water of the Kurang river which runs through the central part of the capital district, and from groundwater to be tapped in the southern part of the project area. The irrigation area will be approximately 6,300ha in total.	1989 Grant Aid (1,858 mil. yen): MIRAD-I 1990 Grant Aid (1,254 mil. yen): MIRAD-II  - The content of the grant aid is as follows: construction of two irrigation dams, three deep wells, 16 waterworks and drainage facilities, improvement of roads (16km), two rural development centers, provision of agricultural machines and		
to promote the integrated included in Isla	rated development of rural amabad capital territory,		maintenance and management of the facilities  (FY1994 Domestic Survey) (FY1995 Domestic Survey)  No additional information.		
8.DATE OF SAV  9.CONSULTANT(S) Chuo Kaihatsu Interna Nippon Giken Inc. Japan Engineering Con  10.STUDY TEAM  No.of Members	ational Corp.	4.CONDITIONS AND DEVELOPMENT IMPACTS  [Development Impacts]  1) Increase of agricultural production lincrease of food crops production by way of irrigation project and increase in lovestock production)  2) Increase of farmers' income lincrease in farmers' income as a result of increased production as well as increased employment opportunities)  3) Increase of employment opportunities (increase in overall employment opportunities due to intensive utilization of land resources for agriculture as well as non-agriculture uses)  4) Upgranding of living standards (improvement of living standards of rural population due to increased agricultural production and increased employment opportunities)	(FY1995 Overseas Survey) The construction was completed in 1991. The study findings like maps and basic data have been found very useful.		
	-Mar.1986(14 months)  Japan Field  47.70	5) Environmental improvement (environmental improvement as a result of soil conservation schemes including reforestation, grassland development, vegetation protection, etc.)	2.MAJOR REASONS FOR PRESENT STATUS		
11.ASSOCIATED AND/C SUBCONTRACTED ST	OR				
12 EXPENDITURE  Total  Contracte	212,498 (¥'000)	5.TECHNICAL TRANSFER  (1) Training in Japan (2 persons) (2) OJT	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、③		

ASO PAK/A 101/85

Compiled Mar. 1990 Revised Mar 1996 ASO PAK/A 102/86 III. PRESENT STATUS OF STUDY RESULTS II. SUMMARY OF STUDY RESULTS I. OUTLINE OF STUDY **LPRESENT** LSITE OR AREA In Progress or In Use **LCOUNTRY** Pakistan STATUS Punjab, Sind Delayed 2.NAME OF STUDY Discontinued Paddy/Rice Handling and Processing Improvement Project 2.PROJECT COST (Description) Local Cost Foreign Cost **Total Cost** I.Project '1' was developed and carried out in the form of production and dissemination by private enterprises. (US\$1,000)569,346 Project '2' was developed and carried out in the form of production and dissemination by the manufactures of US\$1=154Yenin Aug.1986,Rs1 21 3.SECTOR agricultural machinery. 3.CONTENTS OF MAJOR PROJECT(S) agricultural machinery.

Project \*J\* and \*4\* were not materialized because high
priority was not given to those projects

\*Wharf Facilities Improvement Project for Export Rice\* by
RECP was derived from this M/P and it is under consideration: Processing Agriculture/Agricultural 1. Direct rental operation of harvesting machines to the farmers for the harvest of rice and wheat crops.

2. Rental operation of rubber-roll husker to the collaborating rice milis.

3. Production of edible oil from rice bran through processing facility and relevant technology from which highly sophisticated use of the rice bran is much improved. In addition, the facility can be used for other local oil seeds and will increase efficiency of oil extraction then ultimately will save oil importation and foreign currency be involved.

4. Establishment of facilities for improving and developing postharvest technology in order to meet the farmers request as well as requirement, necessary rest and adjustment shall be made for the relevant postharvest. 4.REFERENCE NO. 5.TYPE OF STUDY M/P (FY 1991 Overseas Survey) No additional information. 6.COUNTERPART AGENCY (FY 1992 Overseas Survey) Ministry of Food and Agriculture the implementation of project 1) is under consideration by Ministry of Food and Agriculture as a part of the Edible Oil Production Plan.

-After a request for Grant Aid for postharvest technology training necessary test and adjustment shall be made for the relevant postharvest machinery. At the same time necessary training for the handling and operation of the said machinery for the farmers is also implemented for was turned down, the following two requests has been made:

1) project-type technical cooperation for machanization of rice cropping and impovement of postharvest techniques (1992) 7. OBJECTIVES OF STUDY the reasonable use of the by-products of the agricultural produce concerned tegether with the required implementation of the facility and machinery to go with. Improvement of postharvest practice of rice 2) ditachment of short-term experts in the field of agricultural machinery and postharvest technology (December 1992) (FY 1993 Overseas Survey) No additional information. (FY1995 Domestic Survey)
No additional information. 1985/3 8.DATE OF SAY 4.CONDITIONS AND DEVELOPMENT IMPACTS (FY1995 Overseas Survey) The project "the research and introduction of Modern Rice Transplanting and Harvesting Technologies" is being implemented for period of three years (1993/94 - 1995/96) with own fund of the 9.CONSULTANT(S) [Development Impacts] Overseas Merchandise Inspection Co., Ltd. 1) Minimizing qualitative and quantitative losses of rice which Pakistani government. For the imprementation of the Pre and Post Harvest Rice Research and Development, the request has been made to occurred at each stage of postharvest operation
2) Supplying higher quality rice at low cost to both domestic and foreign markets Nippon Koei Co., Ltd. System Science Consultants the Japanese government for funding. 3) Increasing the income of farmers by rationalizing their farming practice and increases the foreign currency through the export concerned. **10 STUDY TEAM** No.of Members Period Jul. 1985-Aug. 1986 (14 months) 2.MAJOR REASONS FOR PRESENT STATUS Field Total M/M Japan 33.97 16.18 50.15 11.ASSOCIATED AND/OR SUBCONTRACTED STUDY None 3.PRINCIPAL SOURCE OF INFORMATION 5.TECHNICAL TRANSFER 12.EXPENDITURE 160, 150 (¥'000) ①. ②. ③ Total

和名米教収穫後処理法改善計画

Contracted

142,126

ASO PAK/A 302/86			Revised Mar. 1996
I. OUTLINI	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY  2.NAME OF STUDY  Baluchistan Irriga  Project through Gr	Pakistan tion Development oundwater Development	I.SITE OR AREA	I.PRESENT STATUS Completed or in Progress Completed Partially Completed Implementing Processing Discontinued or Cancelled
3.SECTOR Agriculture/(Agricultur  4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENC Ministry of Economic A Government of Pakistan  7.OBJECTIVES OF STUDY	F/S Y ffairs and Finance, .Government of Baluchistan	3) 3.CONTENTS OF MAJOR PROJECT(S)  Kells (18*) : 18 Arterial drainage : 1 km Farm pond : 3 Arterial farm road : 1.6 km  Above-mentioned facility elements are for 10ha model farm plot. It is required to carry out the ground water investigation to clarify the development potentiality:	(Description)  (FY 1991 Overseas Survey)  Sept.1986 - Dec.1987 D/D undertaken by Japanese cooperation  (FY 1992 Overseas Survey)  1) Grant provision of equipment     three well-digging machines (to Baluchistan Development     Authority) in 1987     two well-digging machines (to WAPBA) in 1990     two well-digging machines (to PHED) in 1991     Water resources development for water supply are being carried out by using the granted equipment (Fublic Realth Department or PHED, established within the state government is in charge)  2) The underwater irrigation plan has not been implemented due to a lack of fund  (FY1991 Overseas Survey)  Granted equipments are used effectively.
F/S evaluation for agr basing on groundwater	icultural development research for fissure water	Imp. Period: 19881990.	But underwater irrigation plan has no progress.  (FY1994 Domestic Survey) No additional information.  (FY1995 Domestic Survey) As the grant aid to supply equipment is requested on 1995, implementation of the basic design is going to be commenced on Sep., 1995.
9.CONSULTANT(S) Pacific Consultants In Nihon Norin Helicopter Sanyu Consultants Inc.  10.STUDY TEAM		4.FEASIBILITY AND ITS ASSUMPTIONS  Yes  EIRR1)  EIRR2)  EIRR2)  EIRR3)  Conditions and Development Impacts:  [Pre-conditions]  - Farm size to be more than 5.0ha  - Well capacity to be more than 10.0 lit./sec  - 3 years cropping lotation with vegetable and fruit  - 27km approach road and 22km feeder line to be subsidized by the Government  [Impacts]	(FY1995 Overseas Survey) The underwater irrigation plan has been delayed due to a lack of fund.
	i i	- Improving regional differences - Improving managed agriculture - Improving regional traffic - Improving the level of public hygiene	2.MAJOR REASONS FOR PRESENT STATUS
12 EXPENDITURE  Total  Contracted	346,111 (¥'000) 327,436	5.TECHNICAL TRANSPER  1.Acceptance of trainees(3) 2.Providing machinery and instruction on its use 3.OJT	3.PRINCIPAL SOURCE OF INFORMATION  ①, ②, ③

ASO PAK/S 102/87		Revised mar. 1996	
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS	
I.COUNTRY Pakistan  2.NAME OF STUDY  Water Resources Development Potential	L.SITE OR AREA Capital Area (the Province of Funjab)	I.PRESENT STATUS In Progress or In Use  Delayed Discontinued	
for the Metropolitan Area of Islamabac Rawalpindi  3.SECTOR	2.PROJECT COST  (US\$1,000)  Total Cost Local Cost Foreign Cost 970,588 533,823 436,765  (US\$1=17.0Rs)  2.PROJECT COST  Total Cost Local Cost Foreign Cost 970,588 533,823	(Description)  The project components as described below have been under implementation. The other recommended components will be executed based on the supply and demand balance status for urban water supply in Metropolitan area.	
Social Infrastructu/Water Resource Development  4.REFERENCE NO.  5.TYPE OF STUDY M/P  6.COUNTERPART AGENCY  Capital Development Authority  7.OBJECTIVES OF STUDY  Investigation into the Possibility of water resource development in capital area	The Study proposed the improvement of the control system for 3 existing dams (Rawal, Simly & Khanpur) and the construction of 5 new dams (Haro, Dor & Soan Rivers) to realize the effective utilization of water sources.  1. Projects proposed for the target year of 2000  1) Construction of water conveyance facilities from Khanpur (to be completed in 1991)  2) Study and project preparation of Cherah Dam (Soan River) and the start of its construction; and study and project preparation of D Dam (S River)  3) Implementation and completion of the improvements proposed in Islamabad and Rawalpindi  2: Projects proposed for the target year of 2010  1) Completion of R Dam (to be completed in 2005)  2) Construction of D Dam (to be completed in 2009)  3. Projects proposed for the target year of 2030  1) Study, project preparation and construction of R Dam, N Weir  and Dor water conveyance facilities (to be completed in 2015)  2) Study, project preparation and construction of P Dam (to be	Har 1986 OECF loan: agreement signed (5,750 million yen)  (FY 1991 Overseas Survey)  Rs.13 million was allocated for the F/S of Cherah Dam, but the	
8.DATE OF S/W 1986/8	completed in 2019)  3) Study, project preparation and construction of D Dam (to be completed in 2025)	No additional interaction.	
9.CONSULTANT(S) Sanyu Consultants Inc. Yachiyo Engineering Co., Ltd.	4.CONDITIONS AND DEVELOPMENT IMPACTS  [Conditions] 1) Population in the capital area of 3,267,000 in 2030, and per capital water demand of 475 litters 2) Required water totals 830 MCM per year, including irrigation requirements and the water supply to the airport and industries.		
10.STUDY TEAM	Rough estimates of selected water demands in 2030, investment costs and EIRRs are shown below.  Demand Investment EIRR  General Urban Water Supply 428MCH 11,530 mil. Rps 3.78  Irrigation 120 1,180 8.1  New Airport 2.5 14.2 16.1		
No.of Members 11 Period Nov.1986-Feb.1988(16 months)	New Airport 2.5 14.2	A MALLOD DISAGONO COD DISCONIE CENTRE	
Total M/M Japan Fie 80.30 25.60 54.		2.MAJOR REASONS FOR PRESENT STATUS	
II.ASSOCIATED AND/OR SUBCONTRACTED STUDY Investigation of aquifer by electric exploration method and related survey works	n		
TOTAL 227,291 (¥'00) Contracted 212,954	5.TECHNICAL TRANSFER  (1) Explanation of various analysis methods (2) Training of an engineer in charge of geology in Japan (Analysis of aquifer by means of computer)	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、④	

Compiled Mar. 1990 Revised Mar. 1996 ASO PAK/S 103/87 III. PRESENT STATUS OF STUDY RESULTS II. SUMMARY OF STUDY RESULTS I, OUTLINE OF STUDY LSITE OR AREA LPRESENT In Progress or In Use **LCOUNTRY** Pakistan STATUS □ Delayed NAME OF STUDY Pakistan(whole country) ☐ Discontinued National Transport Plan(follow-up) 2.PROJECT COST (Description) **Total Cost** Local Cost Foreign Cost "Indus Highway Technical and Economic F/S and D/D" were conducted by a Pakistan consulting firm. Financed by OECF loan, Phase I consruction is under way. (US\$1,000)19,985 8,565 1) 28,550 38,000 11,400 2) OECF signed L/A on Indus Highway Project Phase II B in Aug. 1993. The amount of this loan was 18,214 million yen. 3.SECTOR 3.CONTENTS OF MAJOR PROJECT(S) Transportation/(Transportation in)General The JICA study (M/P) was completed on Lahore urban transport system in Oct.1991. Phase III will start in 1994. Improvement of signal system, Track doubling & electrification 4.REFERENCE NO. Locomotive enforcement, Cargo terminals, Inland dry ports, etc. The 7th plan period was over mid-1993. Review of the initial plan and completion will be done by the national transport plan study of 5.TYPE OF STUDY M/P Increase the capacities of trunk road network system including Roads : Indus Highway, Maintenance system improvement and work's implementation, and others 6.COUNTERPART AGENCY (FY1994 Domestic Survey) Planning Commission. Improvement of container facilities in Karachi and Qasim, The National Transport Plan (the 8th 5-year plan) has been undertaken by JICA since Jan. 1994 lasting in Mar. 1995. Transport and Communications Section warehouses and approach roads, oil berths, etc. Airports: Improvement of terminal facilities and runways, communication This M/P was utilized for the transportation/traffic sector of the seventh five-year project (FY1988/89-1992/93) conducted by the Pakistani government. The current status of additionally suggested and navigation aid systems, etc. OBJECTIVES OF STUDY & D : Research and development studies in the establishment of transpor Integral transportation plan date base, profitability & fare levels, urban transport planning, action items relating to the project is:

(1) Indus Highway

This highway, totaly 1,200km length, runs from the north to the south through the west side of the Indus River basin and leads from Feshawar (near to Islamabad) to Kotri (near to Karachi). All the route is an amendment (in terms of the linear-shape adjustment and route is an amendment (in terms of the linear-shape adjustment and Budget 1) for Read and 2) for Railways pavement) of an exisiting road except for a 240km newly created road that directly leads to Karachi.

: This highway construction plan is, according to the priority based upon pavement status and traffic volume at each region, divided into three phases (Phase I, II and III). Both Phase I and II will be finished in 1996. 1986/11 8.DATE OF SAV 4.CONDITIONS AND DEVELOPMENT IMPACTS 9.CONSULTANT(S) Realistic objectives were set and recommendations were made taking into 1989 Mar.: OECF L/A concluded (Phase I, foreign currency 8.5bill. yen, domestic currency 3.64bill. yen)
1994 Jan.: OECF L/A concluded (Phase II, foreign currency 6.1993 Aug. 45.8bill.yen, domestic currency 8.08bill. yen)
OECF loan for Phase III will be decided with the progress result of Pacific Consultants International account the existing situation of the transportation sector, possibility of securing adequate budget, and capabilities to implement plans.

This is the basic policy of the Seventh Five-year Development Flan(87/88) ALMEC Corporation Japan Railway Technical Service Overseas Coastal Area Development Institute (2) Additional carriageway project (N-5: Karachi-Lahore-Islamahad)
Sections between i)Nowshera and Cablet, ii)Rawalpindi and Kharian
will be expanded to 4-lane width. Finance for this project is **10.STUDY TEAM** negotiated with the World Bank.

(3)Construction of the Great Bridge between Sukkar and Rohri

A bridge over the Indus will be built at Sukkar. Total cost of the construction is not fixed yet, but a loan from ADB was admitted in 1994. No of Members Period Jan. 1987-Mar. 1988 (15 months) 2.MAJOR REASONS FOR PRESENT STATUS Field Total M/M Japan 29.62 31.04 60.66 11.ASSOCIATED AND/OR SUBCONTRACTED STUDY None 3.PRINCIPAL SOURCE OF INFORMATION S.TECHNICAL TRANSFER 12.EXPENDITURE

和名 全国総合交通計画(アフターケア)

Contracted

Total

0, 0, 3

(2) Training in Japan: 2 persons (urbin and regional transportation systems, role of government transportation offices)

OJT Computer use

285,090 (¥'000)

274,030

#### 状況 (要約表添付文書)

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(M/P)
ASO PAK/S 103/87
Name of National Transport Plan(follow-up)
 Study
 Country
                       Pakistan
 Type of Study
                     M/P
 Sector
                       Transportation/(Transportation in)General
 Present Status: In progress or In use
 (Description)
    "Indus Highway Technical and Economic F/S and D/D" were conducted by a Pakistan consulting firm.
   Financed by OECF loan, Phase I consruction is under way.
   OECF signed L/A on Indus Highway Project Phase II B in Aug. 1993.
   The amount of this loan was 18,214 million yen.
   The JICA study (M/P) was completed on Lahore urban transport system in Oct. 1991. Phase III will
  start in 1994.
(FY1993 Domestic Survey)
The 7th plan period was over mid-1993. Review of the initial plan and completion will be done
 by the national transport plan study of 1994.
  The National Transport Plan (the 8th 5-year plan) has been undertaken by JICA since Jan. 1994
 lasting in Mar. 1995.
 (FY1994 Overseas Survey)
 This M/P was utilized for the transportation/traffic sector of the seventh five-year project (FY1988/89-1992/93) conducted by the Pakistani government. The current status of additionally
 suggested action items relating to the project is:
 (1) Indus Highway
      This highway, totaly 1,200km length, runs from the north to the south through the west side
 of the Indus River basin and leads from Peshawar (near to Islamabad) to Kotri (near to Karachi).
 All the route is an amendment (in terms of the linear-shape adjustment and pavement) of an
exisiting road except for a 240km newly created road that directly leads to Karachi.

This highway construction plan is, according to the priority based upon pavement status and traffic volume at each region, divided into three phases (Phase I, II and III). Both Phase I and
II will be finished in 1996.

1989 Mar. : OBCF L/A concluded (Phase I, foreign currency
                    8.5bill. yen, domestic currency 3.64bill. yen)
OBCF L/A concluded (Phase II, foreign currency
1994 Jan. :
                     45.8bill.yen, domestic currency 8.08bill. yen)
 OECF loan for Phase III will be decided with the progress result of I and II.
(2) Additional carriageway project (N-5: Karachi-Lahore-Islamabad)
Sections between i)Nowshera and Cablet, ii)Rawalpindi and Kharian will be expanded to 4-lane width. Finance for this project is negotiated with the World Bank.

(3)Construction of the Great Bridge between Sukkar and Rohri
A bridge over the Indus will be built at Sukkar. Total cost of the construction is not fixed yet, but a loan from ADB was admitted in 1994.
 (4) Creation of road traffic database
  Enforcement of the National Transport Research Centre and creation of traffic database were
 recommended. However, the project does not proceed smoothly.
 (FY1995 Domestic Survey)
   It is planned to implement phase-III of the Indus Highway Project after 1996.
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ASO PAK/A 303/88					Revised Mar.	1996
	E OF STUDY	II. SUMMARY OF	STUDY RESULT	ГЅ	III. PRESENT STATUS OF STUDIED PROJEC	Т
I.COUNTRY  2.NAME OF STUDY Upper Kurang River	Pakistan Trrigation Project	1.SHE OR AREA  Irrigation development with 6,600 tresources development of upper Kur	ang River		LPRESENT       □ Completed or in Progress       □ Promoting         STATUS       ○ Completed         ○ Partially Completed       ☑ Delayed or Suspend	đed
		2.PROJECT COST   1) (US\$1,000) (US\$1=17.3rupee in 1987) 2)	Total Cost Local Co 76,902 38,3		O Implementing O Processing Discontinued or Co	ancelled
3.SECTOR Agriculture/(Agricultur	re in)General	3) 3.CONTENTS OF MAJOR PROJECT(S) - Water resources: K-2 dam (zone-t)	/pe fill dam whose hei	ght and effective	(Description)  After the completion of F/S study, the Government of Pakistan decided to suspend the project, because the benefitable area of project engulfs part of city districts (which is called park of the Government of Pakistan)	or the
4.REFERENCE NO. 5.TYPE OF STUDY	F/S	capacity is 53 m and 18.5 MCM, - Canal: Total length of main and - Off-farm facilities: 6,600 ha - Road Network: 18.6 km - Agriculture-supporting facilities	branch canals is 130 K	T.	However, Sanyu Consultants Inc. is recently requested by the Government of Pakistan to make a conception paper for the proceeder to coordinater among the authorities concerned, and it is submitted in Feb., 1990 to the Government of Pakistan.	nect in
6.COUNTERPART AGENC Islamabad Capital Terr	ritory Administration (ICTA)	etc.			(FY 1991 Overseas Survey) 1,359 million Rupee is desired to be funded from OECF.	
7.OBJECTIVES OF STUDY Feasibility study on todevelopment in the met	Y   he irrigated agricultural ropolitan area of Islamabad				(FY 1992 Overseas Survey) As the result of social and economic changes such as a popular increase and urbanization in the Metropolitan Islamabad area, opening of nearby road that led to a decrease and higher price agricultural land, the implementation of the project needs to reconsidered. Place a higher priority on the water supply in metropolitan area.	es of be
					(FY 1993 Overseas Survey) Feasibility of the proposed irrigation project is questionned because of high cost of water. Drinking water supply for metropolitan area is considered with high priority.	d
8.DATE OF SAV	1988/2	Imp. Period: 1987.7-1988.2	EIRR1) 13.00	FIRRI) 12.70	(FY1995 Domestic Survey) As the limited volume of water will be supplied for the dri	inking
9.CONSULTANT(S) Sanyu Consultants Inc. Nippon Giken Inc.		4.FEASIBILITY AND Feasibility: ITS ASSUMPTIONS Yes	EIRR2) EIRR3)	FIRR2) FIRR3)	water with higher priority, the irrigation project may be with possibility to be vanished.  (FY1995 Overseas Survey) No additional information:	h high
10.STUDY TEAM		Conditions and Development Imparate water resources development of effective utilization of irrigation the rural areas of Islamabad capit of vegetables, fruit, and dairy puthe neighboring big markets in the stabilize the regional farm house	of upper Kurang River, n water for rainfed pa- cal territory, brings a	bout better supply		
No.of Members		stabilize the regional farm house	iolds' economy.			
Total M/M	Japan Field				2.MAJOR REASONS FOR PRESENT STATUS	
50.44 11.ASSOCIATED AND/OI	19.00 31.44 R				The higher priority is put on the project in the integrated development master plan from 1985 to 1986. However, it may be water utilization from irrigation to urban water supply due to project economy and cost recovery.	s changed
SUBCONTRACTED STU  Rock test/Embankment r for field irrigation analysis	DY  material test/Physical test soil/Water quality test/Soil	5.TECHNICAL TRANSFER			The project is under reconsideration due to a change in prior rankings among the competing projects.	ity
12.EXPENDITURE	J 173,991 (*'000)	Technology transfer to government	officials both in Pa)	kistan and in Japan	3.PRINCIPAL SOURCE OF INFORMATION	
Total  Contracted	165 446				0. 2. 3	STEER STATE STATE

ASO PAK/A 201B/89								Compiled Mar. 1991 Revised Mar. 1996
I. OUTLINI	E OF STUDY	II. SUMMARY C	OF STUDY R	RESULTS		III. PRE	SENT STATUS OF ST	TUDIED PROJECT
1.COUNTRY	Pakistan	1.SITE OR AREA	The state of the s	desirable form majoraphic groups (and desirable service streets streets) and of the service streets and other services and the services are the services and the services and the services are th	· · · · · · · · · · · · · · · · · · ·	LPRESENT	Completed or in Progress	Dramating
2.NAME OF STUDY Swat District Inte	egrated Rural	(US\$1,000) 2)	15,380 Local Cost 19,710	339, 575 Foreign Cost 45, 270	405,805 54,140	STATUS	O Completed O Partially Completed O Implementing O Processing	Delayed or Suspended Discontinued or Cancelled
3.SECTOR Agriculture/(Agricultur	e in)General	2) 3) 3.CONTENTS OF MAJOR PROJECT(S)	The state of the s			Gövernment wil	sibility study was conducted ted among the masterplan are Il request to the Japanese (	a for which Dibiets
4.REFERENCE NO,		Priority Development Project 1.Agri. Infrastructure Developmen	t - Irrigation	; ;		FY 1992.		
5.TYPE OF STUDY	M/P+F/S	- Small Scale Irrigation Scheme - Spring Water Tank Irrigation	18 pla. 30 pla.			i ~ Agriculi	t of the project will be as tural Infrastructure Improve	follows: ment
6.COUNTERPART AGENC NWFP, Local Government Department		- Kabalgram Trri, Scheme - Sandai-Aloch Irri, & Hydel Po - Choga Irri, & Hydel Scheme - Chakesar Irri, & Hydel Scheme 2.Agri, Supporting Service Develo 3.Road Improvement 103.5km; Road 4.Rural Electrification 26,700H	320 ha. wer Scheme 35 170 ha. 110 ha.	52 ha. 176.0km		- Road Net - Village Estimated Co	tural Development tworks Improvement Water Supply st: US\$15.19 million seas Survey)	
7.OBJECTIVES OF STUDY Draw up integrated rure carry out the F/S for priority.		5. New Water Supply System 22,300 6. Rural Infrastructure Developmen 7. Village Community Development	R			mirau project, similar nature before the implemental (FY 1993 Over: There is no (FY1935 Domest	to this is on-going and no plementation of this project seas Survey) progress.	cural development project of eeds to be closely monitored
8.DATE OF SAV	1988/4		•			tollowed.		ata ore continuously
9.CONSULTANT(S) Sanyu Consultants Inc.						(FY1995 Overse	as Survey) No additional	information.
Pacific Consultants Int	ternational	Imp. Period: 1990.1-2005.12				٠.		
		4.FEASIBILITY AND Feasibility: 1TS ASSUMPTIONS Yes	EIRR1) EIRR2) EIRR3)	10.30 FIRR1) 8.50 FIRR2) 2.80 FIRR3)				
10.STUDY TEAM		Conditions and Development Impa						
No.of Members 9 Period Oct.1988-D  Total M/M	ec.1989(15 months)  Japan Field	without project 728t 6 with project 910t 6 Incremental Benefit 182t	enefits are esti	imated as the differ -project and without- vits	rence	2 MA IOD DEA	ASONS FOR PRESENT STATI	te
49.77		[Development Impacts] It is envi	saged that expa	insion of agricultura	al			
II.ASSOCIATED AND/OR SUBCONTRACTED STUD	The state of the s	production, employment opportunity standard, infrastructure development executions. The EIRRs for Agri.1: 10.3%~14.5%, 8.5%~10.5% and 2.8%~	' and increased nt can be secur nfra.Road and R	income, grading up red by the project bral Electrification	living are	the development Country's Eight	t of the area is placed high th Five Year Plan. However en carried out the implement	her priority in the
12.EXPENDITURE	nd dan bere street and the de tractical participation of the section of the secti	5.TECHNICAL TRANSFER					arriant de la company de la lactique de la company de la c	
Total  Contracted	165,783 (¥'000) 158,592		<b>-</b>			3.PRINCIPAL S ①、②、③	SOURCE OF INFORMATION	
		<u> </u>			1			

ASO PAK/S 304/89				Revised Mar. 1996		
I. OUTLINI	E OF STUDY	II. SUMMARY OF ST	TUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT		
1.COUNTRY  2.NAME OF STUDY Establishment of t for Education	Pakistan he Second TV Channel	(ISS 1000)	y tal Cost Local Cost Foreign Cost 30,955 81,904 49,050 32,000 6,100 26,900	1.PRESENT Completed or in Progress Promoting Completed Partially Completed Delayed or Suspended Implementing Processing Discontinued or Cancelled		
3.SECTOR Communications & B/Bro 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENC Pakistan Television Co 7.OBJECTIVES OF STUDY To study the Plan on the network of the TV chan	F/S Y mporation btd.(PTV) he national breadcasting	3)  3.CONTENTS OF MAJOR PROJECT(S)  The establishment of the second TV chappublic of Pakistan.  In the first 2 years project contents  -Construction of a TV programme productory and installation of broadcasting et and installation of broadcasting et and installation of a transmission facilities in the earth stations and 14 TV ROs).  -Supply and installation of ETV transming rebroadcast stations. Upon completion, acheived.  In the later 3 years:  -Construction of ETV centers in Karacht-Supply and installation of ETV product-ETV transmitter and antennas for the completion 98% of population coverage.	are: tion centre in Islamabad. ng equipment for the above mentioned via satellite(consist of 2 up/down  tter and antenna for each of 12 56% population coverage is  i and Lahore. ion equipment. rest 30 rebroadcast stations. Upon	(Description) Although F/S was conducted on the basis of a loan financial support, the Pakistani Government requested a grant aid from Japanese Government due to the financial difficulties. The Japanese Government accepted the rquest for the first 2 years project contents.  Dec. 10. 1989 Grant Aid E/N (1,640 mil. yen) Jun. 1990 Grant Aid E/N (1,730 mil. yen) Mar. 1991 Completion of the 1st year project Feb. 1992 Completion of the 2nd year project  The opening ceremony took place in November 1992 in the presence of the President of Pakistan, and it has been broadcasting seven hours per day at regular time.  (FY1993 Overseas Survey) This project was realized to increase the rate of literacy and also envisage education in health, sanitation, agriculture, population industry, handicraft and so on.  (FY1994 Domestic Survey) Jun. Jul. 1994 The Basic Design Study for the latter 3 years term was implemented, and successively the final report has been under preparation.		
	Japan Field 23.04 26.72	Conditions and Development Impacts: The current literacy rate in Pakistan increase of population testimated to do likely to decline without an effective education of the people is the urgent establishment of the second TV channel to improve the level of literacy, and family planning, child health. TV is purpose.	ouble in 20 years), the rate is mass education program. The (mass) task of national politics. The for education is an important step to launch mass education programs on	(FY1995 Domestic Survey)  Dec., 1994 Basic designing survey for 'Expansion Project of the TV channel for education' was completed.  Feb., 1995 E/N of grant aid for four(4) rebroadcasting stations (333 million Yen), as a part of the later 3(three) years' plan, has been signed.  May, 1995 E/N of grant aid for eleven(11) rebroadcasting stations (792 million Yen) has been signed.  Jul., 1995 The agreement with construction contractor also has been signed for four(4) stations.  Detailed designing is implementing for eleven(11) rebroadcasting stations, continuously.  (FY1995 Overseas Survey)  Two years have pased since the second TV channel for Education started its operation. Presently, based on the Basic Design Studies, the expansion of the transmission network has been undertaken.  2.MAJOR REASONS FOR PRESENT STATUS		
12 EXPENDITURE  Total  Contracted	157, 101 (¥'000) 159, 273	5.TECHNICAL TRANSFER  Technical transfer was done on channel procedure for programme production, autransmission via satellite.	allocation, post production, dio dutbing and programme	3.PRINCIPAL SOURCE OF INFORMATION  (B), (2)		

ASO PAK/A 304/90			Revised Mar.1996
I. OUTLINE OF S	TUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY Pakis 2.NAME OF STUDY Water Resource Development Malis Basin		I.SITE OR AREA  Malis River Basin situated about 20km north west of Karachi city, Total area is 30,000ha  2.PROJECT COST  Total Cost Local Cost Foreign Cost (US\$1,000)  1) 31,900 5,660 26,220	1 C THEOLEGICIE
3.SECTOR Agriculture/(Agriculture in) of the second	Seneral F/S	3)  3.CONTENTS OF MAJOR PROJECT(S)  - Construction of Mol Dam: - Type of dam = Rockfill (Zone type) - Maximum water level = 173.0m, Normal full water level 169.6m - Maximum height = 48.8m - Gross storage = 45.7MCM, - live storage = 35.0MCM - Dam volume = 1,730 x 10*3m3 - Demonstration Pilot Farm - Development of irrigation area (4,350ha) and Domestic Water Supply 33MC	
7.OBJECTIVES OF STUDY To Formulate Water Resource De	velopment Project		(FY1993 Overseas Survey) The construction plan of Mol Dam is under preparation as follows; August 1993. CECF Loan L/A 206 million yen. {Water Resource Development Project in Malis Basin} This loan aimes a review, D/D and tender preparetion of the Dam and reservoir costruction.  [FY1994 Domestic Survey] The CECF Loan for the Project design was agreed. The engineering services for design will be commenced in Dec.1994 or Jan.1995.  [FY1995 Domestic Survey] Since Jan. 1995, D/D is implemented by the OECF Loan.
8.DATE OF S/W  9.CONSULTANT(S)  Nippon Koei Co., Ltd.	1989/2	Imp. Period: 1991.4-1995.3   EIRRI)   10.65   FIRRI)     EIRR2)     EIRR2   EIRR3   EIRR3	(FY1995 Overseas Survey)  The Pakistani government expects that the construction will be started in Oct. 1996.
10.STUDY TEAM  No.of Members 11  Period Aug. 1989-Oct. 199  Total M/M Jap 47, 17 16.	an Field	Conditions and Development Impacts:  [Development Impacts] A large improvement in the living standard of farmers including peasants is expected.  - Stable Supply of Water - Increase of Employment Opportunity - Increase of Crop Production and Stable Supply of the Products to the Karachi City - Increase of Farmer's Income - Improvement of Water Quality - Flood Mitigation Effects - Improvement of Agro-technology - Demonstration Effect of Pilot Farm	2.MAJOR REASONS FOR PRESENT STATUS
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY None  12.EXPENDITURE  Total Contracted	152,552 (¥'000) 147,613	5.TECHNICAL TRANSIER  1 Technology transfer to counterparts in the course of the Study 2)Training of counterparts in JICA training course	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、③

Compiled Mar. 1993 Revised Mar. 1996

ASO PAK/S 203B/91			Revised Mar. 1996
I. OUTLINE OF STU	IDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY Pakistan  2.NAMEOFSTUDY  Comprehensive Study on Tran System in Lahore	sportation	.SITE OR AREA  Lahore Metropolitan Area (2,300 Sq.Km)  2.PROJECT COST M(Pl) 910,000 Local Foreign Cost Cost Cost Cost 11,332 2,600	LPRESENT STATUS Completed or in Progress Promoting Completed Partially Completed Implementing Processing Discontinued or Cancelled
3.SECTOR Transportation/Urban Transportation  4.REFERENCE NO. 5.TYPE OF STUDY M  6.COUNTERPART AGENCY Lahore Development Authority  7.OBJECTIVES OF STUDY  1)Formulation of Urban Transport F 2000/2010  2)Feasbility Study on Priority Pro-	3/P+F/S	2) 288,164 209,707 78,457 3)  CONTENTS OF MAJOR PROJECT(S)  M/P>Components of the Master Plan (up to 2010): )Short-term plan (1992-1995) (Total cost Rps 25 bil): Improvement and construction of roads; 9 intersections; traffic management; bus system; ew bridge across the Ravi River.  IMedium-term plan (1996-2000) (Total cost Rps 65 bil): roads;	(Description) (FY1992 Overseas Survey)  1) Detailed designs are prepared for three flyovers. 2) A D/D for LRT is planned to be implemented in time for the scheduled opening.  The construction of flyovers is planned to be implemented through funding of the Pakistani Government and World Bank. The scale of LRT project is so large that the government seeks Japanese cooperation in addition to the planned World Bank lean for a part of the construction.  3) The construction of the bridge across Ravi River has started. 4) A D/D for grade seperations is in progress. 5) A D/D for link road is also in progress.  (FY1993 Overseas Survey)  1) In Ling Road project, F/S and D/D have already been completed for the first term by WB Fund. 2) Ravi bridge: one bridge completed, one on the way to build.  (FY1994 Domestic Survey)  The Funjab Government has a keen interest to implement the LRT project within a few years, and the draft PC-1(official request to
	989/10	- Construction of a light rail line from the present CBD to the Model Town in the south (12.5 km)  Related facilities and equipment (elevated stations, signaling and communication, yards and workshops, rolling stocks, aquisition of the right of way, etc.)  Costs are estimated in the end 1990 prices.  IFEASIBILITY AND  Feasibility:  EIRR1)  EIRR2)  EIRR2)  EIRR3)  FIRR3)	the central government) might be submitted, based on the availability of OECF loan.  (FY1994 Overseas Survey)  1) The World Bank conducted a F/S for LRT, with a plan to shorten the LRT route, compared with JICA's F/S, in 1992. Moreover, Japanese consulting firms did financial analysis again in 1994. But there is no progress in loans from the World Bank and OECF.  2) As far as constructions of two-level crossings (1 places) are concerned i) underground crossings, instead of on-the-ground, were built based upon Rs.450million paid from Punjab State budget in 1994; illexisting roads are expanded based upon the World Bank loan; iii) since on-the-ground two-level crossings will be constructed over the LRT, the construction cannot get started unless the LRT route is determined.  3) For a part of the ring road surrounding Lahore (16km), the World Bank conducted F/S and D/D. JICA is expected to take charge of F/S
No.of Members 11 Period Jul.1990-Oct.1991 (1  Total M/M Japan 60.95 24.86  II.ASSOCIATED AND/OR SUBCONIRACTED STUDY Traffic Survey including HIS, Teperatory the Project Route.	5 months)  Field 36.09	Assumptions and Development Impacts:  [Assumptions]  [Puture transport demand (in person trips/day) was projected on the basis of the results of the 1990 person trip survey (HIS):  1990 2010  Population (over 5 years of age) 4,578 8,875 (in 1000)  Person trips/day 9,779 19,863  Trip generation rate 2.14 2.24  [PLRT System is to be elevated and start operation in 2010  [PLRT route is selected with reference to future transport network, convenience in transfer, conservation of historical buildings and greenery, etc.  [Plevelopment Impacts]  [Intersection Improvement: Alleviation of traffic congestion.  [PLRT: Strengthening of the public transportation capacity, alleviation of traffic congestions, redevelopment in the areas around terminals, etc.; To	Bank conducted F/S and D/D. JICA is expected to take charge of F/S and D/D for 30 km of the ring road. Other 48km mentioned above, the rest of the road will be left as it is.  (FY1995 Domestic Survey)  LkT is promoted to commence the construction works in early stage. It is learnt that LDA was re-studied F/S and is carrying out the evaluation study on the environmental effects by themselves. And  2.MAJOR REASONS FOR PRESENT STATUS
	226,159 (¥'000)	5.TECHNICALTRANSIER  (1) Analyze Methods of Basic Data of Urban traffic plan such as person tripsurvey and future 0.D Tables. (2) C/P training in Japan(2person).	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、③

和名 ラホール都市圏総合交通システム開発計画

#### 状況 (要約表添付文書)

#### ASO PAK/S 203B/91

(M/P+F/S)

Name of Comprehensive Study on Transportation System in Lahore

Study

Country

Pakistan

Type of Study M/P+F/S

Sector

Transportation/Urban Transportaion

Present Status: Partially Completed

#### (Description)

(FY1992 Overseas Survey)

 Detailed designs are prepared for three flyovers.
 A D/D for LRT is planned to be implemented in time for the scheduled opening. The construction of flyovers is planned to be implemented through funding of the Pakistani Government and World Bank. The scale of LRT project is so large that the government seeks Japanese cooperation in addition to the planned World Bank loan for a part of the construction. 3) The construction of the bridge across Ravi River has started.

4) A D/D for grade seperations is in progress.

5) A D/D for link road is also in progress.

(FY1993 Overseas Survey)
1) In Ling Road project, F/S and D/D have already been completed for the first term by WB Fund. 2) Ravi bridge : one bridge completed, one on the way to build.

(FY1994 Domestic Survey)

The Punjab Government has a keen interest to implement the LRT project within a few years, and the draft PC-1(official request to the central government) might be submitted, based on the availability of OECF loan.

(FY1994 Overseas Survey)

1) The World Bank conducted a F/S for LRT, with a plan to shorten the LRT route, compared with JICA's F/S, in 1992. Moreover, Japanese consulting firms did financial analysis again in 1994.

But there is no progress in loans from the World Bank and OSCF.

2) As far as constructions of two-level crossings (3 places) are concerned ,1) underground crossings, instead of on-the-ground, were built based upon Rs.450million paid from Punjab State budget in 1994; ii) existing roads are expanded based upon the World Bank loan; iii) since on-the-ground two-level crossings will be constructed over the LRT, the construction cannot get started unless the LRT route is determined.

3) For a part of the ring road surrounding Lahore (16km), the World Bank conducted F/S and D/D. JICA is expected to take charge of F/S and D/D for 30 km of the ring road. Other 48km mentioned above, the rest of the road will be left as it is.

(FY1995 Domestic Survey)

LRT is promoted to commence the construction works in early stage. It is learnt that LDA was re-studied F/S and is carrying out the evaluation study on the environmental effects by themselves. And also LDA begins an active approach to Japan in order to earn the Yen Credit.

ASO PAK/A 305/92		:		Revised Mar. 1996
I. OUTLINE	OFSTUDY	II. SUMMARY OI	F STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
2.NAME OF STUDY Development of Irri	Pakistan gation Based on Khan Hill Torrents	1.SITE OR AREA  Vidor in D.G. Khan, Punjab provin  2.PROJECT COST  (US\$1,000)	Total Cost Local Cost Foreign Cost 3,553 2,432 1,121 7,403 5,654 1,749	I.PRESENT STATUS Completed or in Progress Promoting Completed Partially Completed Implementing Processing Discontinued or Cancelled
the main hill torrent a South-Western Punjab. maintain the basin in o	F/S  Y  In Power, Province of  lood control and or to utilize the water of tt D.G. Khan district And recommend a plan to order to reduce flood	2) 3)  3.CONTENTS OF MAJOR PROJECT(S)  1. Dispersion Structure: 2 sites 2. Distribution Facilities: impr 1. Watershed Conservation Facilit	10,440 8,249 2,191  s rovement at 23 sites ies : unds our hedges gs oute	(Description)  In the feasibility study, the review of Mithawan Hill torrent Pilot Project was carried out, and the basic design study for this project going to be implemented with the Japan's Grant Aid is in progress now.  But, for the Vidore Hill torrent area, the implementation of the project will be decided after completion of the Mithawan Hill torrent Pilot project.  (FY 1993 Overseas Survey)  Above Mithawan Hill torrent Pilot Project has already started since May 1994 (untill April 1996), granted by JICA.  (FY1994 Domestic Survey)  The constructions of watershed conservation and irrigation in the Mithawan Area have been implemented with the Japan's Grant Aid (signed in Oct, 1992 Rs]46.90mil) since Aug.1994. The technical transfer for pasturing and cultivation to the inhabitants is planned from Jan.1995 for five year by FAO, with the facilities to be constructed under the Japan's Grant Aid.  (FY1995 Domestic Survey)  Department of Irrigation and Power, Province of Punjab is requesting the implementation of the project to the World Bank for
8.DATE OF SAV	1990/8	Imp. Period: 1997.1-1998.12	1997.1-2001.12 1997.1-2000.12	development and maintenance of Vidor Hill Torrent Area.  On July, 1995, the World Bank requested to an expert, who was in charge of disaster protection of agricultural area when this F/S was carried out, to participate the reinvestigation survey of this project (especially in the field of maintenance of the basin).
9.CONSULTANT(S) Nippon Giken Inc. Sanyu Consultants Inc.		4.FEASIBILITY AND ITS ASSUMPTIONS Yes/No  Conditions and Development Impational Conditions and Development Impactive (Conditions and Development I	EIRR1) 19.90 FIRR1) 14.20 EIRR2) 11.80 FIRR2) 8.20 EIRR3) 10.40 FIRR3) 7.20  Acts: s1 ( Imp. Feriods are 1) 2 years, 2) 5	(FY1995 Overseas Survey)  Concerning Vidore Hill Torrent Project, Preparetion of basic study report and its implementation are likely to be undertaken after the completion of Mithawan Hill Torrent Pilot Project.
10.STUDY TEAM  No.of Members 2  Period Mar. 1991-0	1 ct.1992(19 months)	flood damage through the incr torrent water.  2. The stabilization of the land	and irrigated area and reduction of the rease of the dispersion of the hill conditions in watershed area and the aising by watershed conservation	
Total M/M 32.00 II.ASSOCIATED AND/OR SUBCONTRACTED STUD Topugraphic Survey, Geo	2			2.MAJOR REASONS FOR PRESENT STATUS  Due to the Vidor hill torrent area is close to the Mithawan hill torrent area, the balanced project implementation in the Nation will be taken into consideration.
and rater Right Survey  12.EXPENDITURE  Total  Contracted	201,790 (¥'000) 187,898	5.TECHNICAL TRANSFER  The technology of the facility st management was transferred to the frrigation and Power, Funjab.	udy for irrigation and watershed counterparts of the Department of	3.PRINCIPAL SOURCE OF INFORMATION  ①、②

Compiled Sep.1995 Revised Mar.1996

ASO PAK/S 104/94			A STATE OF THE PARTY OF THE PAR		Revise	ed Mar.1996
I. OUTLINE OF STUD	Y II. S	SUMMARY OF STUDY RE	SULTS	III. PRES	ENT STATUS OF STUDY R	ESULTS
1.COUNTRY Pakistan  2.NAME OF STUDY  National Transport Plan in the		у		I.PRESENT STATUS	In Progress or In Use Delayed Discontinued	
Republic of Pakistan  3.SECTOR	2.PROJECT COST (US\$1,000)	Total Cost Local ( 1) 15,100,000 2) 6,425,000	Cost Foreign Cost	ISV1995 Overces	ed that the major part of the results luded in the eighth five year plan. s Survey)	
Transportation/Urban Transportation	3.CONTENTS OF M. Proposal for the eig	AND THE RESERVE AND THE PROPERTY OF THE PROPER	(million rupee)	The study res	sults have been circulated to all con t for their specific development.	cerned agencies
6.COUNTERPART AGENCY	/P highway and Railway (Improve the coaction information)	of Automobile road; National rural road) he orbits, signal system; increase ch, electrification and improve the ion system)	73,226			
National Transportation Research Cent Ministry of Transportation and Commun	ication   Airport/Aviation ()	of the ports of Karachi, Kashim, el Airport renovation project, and oth garding to aviation)	d.) 14,572 2r 38,560 167,058			
7.OBJECTIVES OF STUDY  To reexamine the Master Plan of whole transportation sector for 2005-2006, recommend an investment programme for five year plan.	and to					
8.DATE OF S/W 199				-		
9.CONSULTANT(S)  ALMEC Corporation Pacific Consultants International	(Conditions) 1)Annual economical	growth should be 6% in average. thod should be convert to railway in of the private sectors.	reasonablly.			
	[Development Impact 1)Appropriate allotr 2)Increase of the c	ts) ment for each means of transport. capacity of transportation to meet t	ith increase of the			
No.of Members 12 Period Jan. 1994-Feb. 1995 (14)	3)ETRR will be 12 t	to 35% (in each mode and main proje	c <b>t).</b>	****		
Total M/M Japan 75.15 36.65  11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Field 39.50			2.MAJOR REAS	SÓNS FOR PRESENT STATUS	
12.EXPENDITURE Total 286	5.7ECHNICAL TRA 5.073 (¥'000) 1) Transfer the soft 2) One counterpart to	ANSITER  t of transportation planning system trained in Japan.		3.PRINCIPAL S	OURCE OF INFORMATION	

Compiled Sep.1995 Revised Mar.1996

ASO PAK/A 306/94		Revised Mar. 1996
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY Pakistan  2.NAME OF STUDY  Chashma Right Bank 1st Lift Irrigation Project	1.SITE OR AREA   D.I. Khan district, North-Western Frontier Province (N.W.F.P.)     2.PROJECT COST     Total Cost   Local Cost   Foreign Cost   (US\$1,000)     10.000   10.0000   10.00000   10.000000   10.0000000000	1.PRESENT Completed or in Progress Promoting STATUS Completed Partially Completed Delayed or Suspended Implementing Processing Discontinued or Cancelled
3.SECTOR  Agriculture/Irrigation, Drainage & Reclamation  4.REFERENCE NO.  5.TYPE OF STUDY F/S  6.COUNTERPART AGENCY	3)  3. CONTENTS OF MAJOR PROJECT(S)  Waterintake works: newly estblished Canal: newly established Crossing drain works: 11 Waterway bridges, 11 Culverts, 1 Mud removal- cum- outlet work 1 and 29 Bridges Pump station: 20cu.m/s - 72cu.m/s, actural lift head 18.3m Pump: Vertical vortex type, Main pump 10cu.m/s X 6 unit, Sub pump 6cu.m/s X 2	(Description)  Ar present, the Irrigation Department of the Government of N.W.F.P. is preparing an actual plan for the implementation of the project (FC-1) based on the report on this project. And the authority concerned expects to get Yen Credit from OECF in order to implement this project and it seems to be requested to the Government of Japan in near future.  (FY1995 Overseas Survey)  No additional information.
Irrigation Department, the Government of North West Frontier Province (N.W.F.P.)  7.OBJECTIVES OF STUDY  Formulation of an irrigation agricultural development plan for the area in D.I.Khan district, NWFP, located in the right bank of the Indus River with an area of approx.110,000ha by pmping up the water from the Indus River	Water line: 3 lines of steel pipe with a diameter of 3,200mm Trunk canal: total extension 113.25km Other ficilities: Branch of trunk canal, Regulation reservoir, Drain facility, Communication facilities, Living water supply facilities and Rural reads	
8.DATE OF SAV 1992/11	Imp. Period:	
9.CONSULTANT(S) Nippon Giken Inc. Nippon Koei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS Yes/No EIRR1)  EIRR2)  EIRR2)  EIRR3)  FIRR1)	
No.of Members 13 Period Mar.1993-Mar.1995(24 months)	Conditions and Development Impacts:  [Conditions]  Targets of crop has been settled based on the Feasibility Study Report of CRBC Stage III(1990) and the various test results conducted by the D.I. Khan agriculture Research Center in 1991-1992. In order to reach the target level, beneficial farmers should be supported by means of technical transfer of improved cultivation methods and so forth.  [Development Impacts]  Following privileges are expected:-  1) Increase of the agricultural products at this area, 2) Saving transportation costs, 1) Water causing flood is diverted to irrigation water for upper stream area, 4) Dévelopment of living water resources, 5) Saving migration expenses during summer season, and so forth.	
Total M/M Japan Field 93.63 32.70 60.9	Additionally 1)Creation of chances of employment, 2)Improvement of local transportation, 3)Mitigation of gap of revenues among inhabitants and transportation, 1 and original and appeal of the socio-economic effects	2.MAJOR REASONS FOR PRESENT STATUS  Because the project is expected to benefit underdeveloped region, it is given top priority.
II.ASSOCIATED AND OR  SUBCONTRACIED STUDY  Soil Test, survey of Farmhouse, Investigation of Water and Groundwater Quality, Topographic and Geological Survey	5.TECHNICAL TRANSFER	
Total (Y'000 Contracted 263,604	1) Method of Feasibility Study was transferred to the Counterparts of N.W.F.P. during the survey works at the site. 2)3 Counterparts in total were invited to Japan for technical training.	3.PRINCIPAL SOURCE OF INFORMATION  1. 2

ASE PHL/A 301/76		Revised mar. 1990
I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY Philippines  2.NAMEOFSTUDY  Cagayan Integrated Agricultural Development Project	Cagayan River Basin of Cagayan Province  Total Cost Local Cost Foreign Cost	I.PRESENT STATUS Completed or in Progress Promoting Completed Partially Completed Delayed or Suspended Implementing
Development Project	2.PROJECT COST   10   10   10   10   10   10   10   1	O Processing Discontinued or Cancelled (Description)
3.SECTOR Agriculture/(Agriculture in)General	3.CONTENTS OF MAJOR PROJECT(S) Scheme 1)Aparri-Lallo 2)Pared 3)Iguig Irrigation areas(total:14,300ha) 12,000ha 1,500ha 800ha	The proposed project was implemented by the OECF finance.  Apr. 1977 OECF L/A sigfned (6.16 billion yen) 1978 Construction started Dec. 1988 Construction completed
4.REFERENCE NO. 5.TYPE OF STUDY F/S 6.COUNTERPART AGENCY	Fumping facilities	OECF Loan:  + 3 pump stations - Irrigation canals (930km) - Drainage canals (414km)
CIADP related agencies NIA, NEA, PW	Lateral 360km 45km 16km Farm Road 108km 27.5km 12km The project cost 1)above is for the entire schemes. The project costs for the individual schemes are as follows.  Total Local Foreign (US\$1,000) Aparri-Lallo 11,923 12,530 11,923	Roads (759km) Power transmission (70km)  (FY1991 Overseas Survey)
7.OBJECTIVES OF STUDY  The Project Area is rainfed paddy field area with the Cagayan river which is the biggest one in the Philippines however as useless for irrigation. Accordingly, F/S for the pump irrigation and the establishment for the integrated agricultural development plan shall be undertaken.	Pared 2,158 2,418 2,159 Iguig 1,397 883 1,397	No additional information.  (FY1994 Domestic Survey)  Due to the siltation in front of the intake gate for pumping station, irrigation water shortage is experienced in dry season. NIA is planning to conduct dredging but could not yet performed enough due to its budgetary constraint.
8.DATE OF SAV	Imp. Period: 19771982.	
9.CONSULTANT(S) Sanyu Consultants Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS   Figure 15.00   Figure 15.00	
	Conditions and Development Impacts: [Conditions] Economic benefits are estimated as the difference of net income in rice production between with-project and without-project conditions.  Increased rice production (tons)	
No. of Members 10	without project with project Iguig, Pared, Lallo 5.574 23,721 Aparri 12,190 52,106 [Development Impacts]	
Period May.1975-Jun.1976 (13 months)  Total M/M Japan Field	<ol> <li>Irrigation Impacts: Complete double cropping has been possible in paddy of 15,000ha in these 3 districts above.</li> </ol>	2.MAJOR REASONS FOR PRESENT STATUS
Total M/M Japan Field  II.ASSOCIATED AND/OR  SUBCONTRACTED STUDY	3) Village electrification plan was promoted in Aparri district.	
12.EXPENDITURE 91,893 (¥'000)  Contracted 82,482	5.TECHNICAL TRANSITER  Overseas training was done during the period of project implementation	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、①

ASE PRIL/S 302/10	<u></u>		
I. OUTLINE OF STUD	Y	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY  2.NAME OF STUDY  Pan-Philippine Highway Ferry Plan	Service	Eataan Shipyard (Manila Bay and Marivelez)  2.PROJECT COST Total Cost Local Cost Foreign Cost (US\$1,000)  1) 9,904 1,707 8,197	1.PRESENT Completed or in Progress Promoting STATUS Completed Partially Completed Delayed or Suspended Implementing Processing Discontinued or Cancelled
3.SECTOR Transportation/Marine Transportation 4.REFERENCE NO. 5.TYPB OF STUDY 6.COUNTERPART AGENCY Dept. of Public Highway  7.OBJECTIVES OF STUDY Feasibility analysis of the constructions	7/S	(US\$1=292.8yen)  2) 3)  3.CONTENTS OF MAJOR PROJECT(S)  1. Ferry 1) Scale: 59m Diesel engine, 2 ferry 2) Capacity: Passenger 400, Truck (8t) 14  3) Term for constructon: 26 months 4) Technical employee: 20 engineers 3 months, 40 managers 6 months  2. Ferry terminal 1) Mooring     Crest elevation: MHHW +2.5m     Depth: -4.5m 2) Building     Size: 1,200sq.m     Structure: 2 floor Ferro-concrete 3) Car park, shore protection, breakwater constructed.	(Description) On 1977, the after care survey had been carried out, and after that the project implemented by Yen Credit. Jan.1978 OECF loan agreement (3,000 million yen) For the construction of two ferry boats and four ferry terminals Jan.1983 lst ferry boat delivered Oct.1983 Terminals completed Jun.1984 2nd ferry boat delivered  (FY 1991 Overseas Survey) No additional information.
8.DATE OF SAV 9.CONSULTANT(S)	<i>,</i>	Imp. Period: 19781980.  4.FEASIBILITY AND Feasibility: EIRR1) 10.00 FIRR1) 8.00  EIRR2) FIRR2)	
Overseas Ships Building Cooperation	Center	Conditions and Development Impacts:  Conditions:  1. Forecasted demand: assumed 2 round-trips per day (target year: 1985)  2. Staff: 20(officer 8, clue 12)  3. Continental regime: A center is set on oneside, managers is set.	
No. of Members 4 Period Jan. 1976-Jun. 1976 (5)	months)	4. Capacity of transport/day 1978 1980 1985 1990 (passenger) 310 390 710 1,270  Development impacts:  1. Reduction of transportation cost: 11 pesos/man  2. Reduction of transportation time: 0.8 pesos/man  3. Loss of taking on board is saved: 20 pesos/T	
Total M/M Japan  11.ASSOCIATED AND/OR  SUBCONTRACTED STUDY	Pield	a. Saving the maintenance of other shore: 76,000 pesos Year71,000 passengers 5. Other impacts 1) Several functions of service will be established around terminal. 2) Increase of sightseers	2.MAJOR REASONS FOR PRESENT STATUS
10141	8,550 (¥'000)	S.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、①
Contracted	reading and an analysis of the second second	· 如果我们的 我们就是我们的我们的我们的我们的我们的我们的我们的我们的我们的我们的我们的我们的我们的我	{F/S,D/D}

ASE PHL/S 301/76			Kevised nat. 1970
I. OUTLINE	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
	Philippines of Subic Ship Repair	Subic Bay in southwestern Luzon (100km from Manila)  2 PROJECT COST Total Cost Local Cost Foreign Cost	1.PRESENT Completed or in Progress Promoting STATUS Completed Partially Completed Delayed or Suspended
Yard		(US\$1,000) 1) 66,530 29,370 37,160 2)	O Implementing O Processing Discontinued or Cancelled (Description)
3.SECTOR Transportation/Marine 4,REFERENCE NO.	Transportation & Ships	3) 3.CONTENTS OF MAJOR PROJECT(S)  1. Facility plan 1) Total site: 158,000sq.m 2) Dredging and reclamation: 1 million cu.m	Sep.1977 OECF loan agreement (E/S, 265 million yen) Mar.1979 OECF loan agreement (10,855 million yen) For the construction of Subic Repair Yard Oct.1979 Construction started Dec.1981 Construction completed
5.TYPH OF STUDY 6.COUNTERPART AGENC Maritime Industry Author	<del></del>	3) Dock yard: 350m x 65m x 13m, sufficient for 300,000D.W. 4) Dock side crane: 30t x 2 5) Repair plant: main bldg. 150m x 35m x 12-17m, ancillary bldg. 150m x 15m x 7m 6) Quay and dolphin: 25m x 160m, of which dolphin 20m x 25m, obliquely intersection steel pile standard 7) Oxygen and acetylene generator: obtained from outside. 8) Service and industrial water: well used, Water tank 500t for service	OECF financing:  1) Construction of a dry dock (350m x 65m x 12.5m)  2) Berths (two 300,0000wT berths, one 150,0000wT berth, and one 20,0000wT terth  3) Cranes (one 80t crane, one 30t crane and one 15t crane)  4) Buildings
7.OBJECTIVES OF STUDY Feasibility analysis of		water, 2,000t for industrial water. 9) Control pollution: Equipment for treating waste water from living and from sashing engine parts is to be installed. 10) Construction cost: \$71.86 million 2. Management plan Organization of New company Capital 20 million US\$(60% from Philippine government 40% from partner) It is	
8.DATE OF S/W 9.CONSULTANT(S)		Imp. Period: 19761980.  4.FEASIBILITY AND ITS ASSUMPTIONS  Yes FIRR1) 25.00 FIRR1)  EIRR2) FIRR2)  EIRR3) FIRR3)	
10.STUDY TEAM  No.of Members 6		Conditions and Development Impacts: Conditions: 1. Initial investment: recovered in 17.5 years after beginning of operation. 2. Residual book value: 10% 3. Long-term loan: Interest 4.25% on the average. 7 year deferment 18 year payment 4. Sales: 65% is received before the end of a year, 35% in the following	
Period Jan. 1976-A Total M/M	pr.1976(3 months)  Japan Field	year. 5. Production cost: 10% is paid in the present year and 90% in the following year. Development impacts:	2.MAJOR REASONS FOR PRESENT STATUS
II.ASSOCIATED AND/OR SUBCONTRACTED STUI		1. Sales 1979 1980 1981 1982 1983 1984 1985 (mil\$) 2.42 9.46 13.2 17.2 19.1 21.4 24.2  2. Foreign exchange earnings and savings 3. Increase of employment opportunity: 1,600 4. Increased market for domestic materials: The dependence on imported raw materials will be lowered gradually in the course of this project.	
12.EXPENDITURE Total	13,226 (¥'000)	5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION  ①、①
Contracted my スーピック核理用が	9: 60: (37 ) B (40 ) F [W]		[F/S,D/D]

ASE PHL/S 303/76			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  Manila Rapid Tran	Philippines sit Railway Line No.1	1.SITE OR AREA	1.PRESENT
3.SECTOR Transportation/Railway 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENORY Planning & Project Deworks Dept., Transport 7.OBJECTIVES OF STUD Urban Public Transport	F/S CY velopment office, Public t & Communication	3)  3.CONTENTS OF MAJOR PROJECT(S)  Content: Route selection: Station building: Power supply facilities: Communications facilities: Signalling: Operation and Maintenance Length: 20km	(Description)  The subway project was cancelled as follows.  1. According to the decision made by the President's Office in 1979, this project was started with a Belgian grant. The original plan was the surface railway transit.  2. Afterwards, the plan was changed to the elevated railway transit(LRT) and consequently required additional loans, including bloyd/Sumitomo, Swiss Transfer Credit, and LTD Bond.  3. This LRT No.1 route replaced Subway No.1 route. Total length was about 14 km.  4. This LRT project was completed in December 1985. Number of passengers: 250,000/day.  (FY1994 Domestic Survey)  No additional information.
8.DATE OF S/W 9.CONSULTANT(S)	1974/7	Imp. Period: 1980.1-1987.7  4.FEASIBILITY AND Feasibility: EIRR1) 20.40 FIRR1) FITS ASSUMPTIONS NO EIRR2)	
Pacific Consultants In Japan Overseas Consultants In Japan Oversea		Conditions and Development Impacts:  Conditions: - Traffic demand forecast was made on the basis of person trip survey (1971) and mass transit service survey (1975).  - survey area was Greater Manila Area including 4 cities and 15 towns.  Development impact: It is to meet future traffic demand which cannot be met by roads surface mocks.	
Total M/M 90.42 11.ASSOCIATED AND/O SUBCONTRACTED STU		i ,	2.MAJOR REASONS FOR PRESENT STATUS  The alternative transit system was implemented.
12 EXPENDITURE  Total  Contracted	178,914 (¥'000 242,970	5.TECHNICAL TRANSFER  -Technique for future traffic demand forecasting -Overseas training in Japan -Environmental assessment method	3.PRINCIPAL SOURCE OF INFORMATION  ①

#### PROJECT SUMMARY (Basic Study)

ASE PHL/A 501/77			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 Fish Finding (skip	Philippines pjack) Survey	I.SITE OR AREA  The Gulf of Leyte and the Gulf of Pavao	I.PRESENT In Progress or In Use STATUS Delayed Discontinued
3.SECTOR Fisheries/Fisheries  4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENOR Bureau of Marine Resounce of Marine Resounce of Marine Resounce of Marine State distribution of State of Bait fishes for skill and aptitude of Bait	Basic Study CY Droces  Y Droveys in order to clarify kipjack resources, abundance ipjack pole-and-line fishing fishes in the southeastern	(US\$1,000)  Total Cost Local Cost Foreign Cost  1)  2)  3.CONTENTS OF MAJOR PROJECT(S)  During the period of the study, it was a poor catch period in the Gulf of Leyte, and it was between a poor catch period and the beginning of fish visiting period in the Gulf of Davao, therefore the haul was poor.  It is necessary to conduct survey in different time to observe the difference of the hauls by the time and to judge the overall situation through a year.	(Description) (FY1993 Overseas Survey) No information is available. (FY1994 Domestic Survey) No information. (FY1995 Domestic Survey) After this basic study, there is no new survey work has been carried out.
area of the Philippine  8.DATE OF SAW  9.CONSULTANT(S)		4.CONDITIONS AND DEVELOPMENT IMPACTS  1. Survey socied was too short to estimate the feasibility of skiplack	
Japan Marine Fishery	Resource Research Center	<ol> <li>Survey period was too short to estimate the feasibility of skipjack pole-and-line fishery in this area.</li> <li>Feasibility of supplying balt fish was estimated, and feasibility of technic to keep balt fish was also estimated.</li> </ol>	
10.STUDY TEAM  No.of Members  Period Nov. 1976-	3 Mar.1977(5 months)		
Total M/M	Japan Field		2.MAJOR REASONS FOR PRESENT STATUS
11.ASSOCIATED AND/OU SUBCONTRACTED STU			
12.EXPENDITURE  Total  Contracted	99,851 (¥'000) 94,682	5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION  ①、②

## PROJECT SUMMARY (Other)

ASE PHL/S 601/17					Revised Mat. 19	
	E OF STUDY	II. SUMMARY OF STUDY RES	ULTS	III. PRES	ENT STATUS OF STUDY RESULTS	
1.COUNTRY  2.NAME OF STUDY Pan-Philippine His	Philippines ghway Ferry Service	LSITE OR AREA  Shipyard (27ha) in Marivelez		1.PRESENT STATUS	In Progress or in Use Delayed Discontinued	
(follow-up)  3.SECTOR			ost Foreign Cost 010 8,860	(Description) Jan 1978 OBCF TFY1994 Domesti	loan agreement (3,000 million yen) c Survey) information.	
4.REFERENCE NO. 5.TYPE OF STUDY	Other	3.CONTENTS OF MAJOR PROJECT(S)  Technical advice on the ferry construction which has be F/S (FY 1976).	een proposed by the	(FY1995 Domestic Utilize the r in Japan and an during 1980 to These ferries available at pr	eport of this survey work, a 1900 GTZ ferry was boother one was built in Philippines, respectively 1984.  are on use at present. No further information i	uilt s
6.COUNTERPART AGEN Dept of Public Highwa Authority 7.OBJECTIVES OF STUD	y, Maritime Industry					
	the construction of ferries					
8.DATE OF S/W 9.CONSULTANT(S) Overseas Ships Buildi	ng Cooperation Center	4.CONDITIONS AND DEVELOPMENT IMPACTS  - Efficient in-island and coastal transportation - Transfer of shipbuilding technology				
10.STUDY TEAM  No.of Members	4 -Jul.1977(1 months)					
Total M/M	Japan Field			2.MAJOR REA	SONS FOR PRESENT STATUS	
11.ASSOCIATED AND/O SUBCONTRACTED ST						
12 EXPENDITURE  Total  Contracted	d 4,554 (¥'000)	5.TECHNICAL TRANSFER  1)Designing engineers and field technicians were traine 2)Supervisors, engineers, field staffs, etc. were dispa	d in Japan. Eched from Japan.	3.PRINCIPAL S	OURCE OF INFORMATION	

ASE PHL/A 302/77					Revisco
I. OUTLINE	OF STUDY	II. SUMMARY O	F STUDY R	ESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY 2.NAME OF STUDY Grain Terminal Con	Philippines struction Projects in	LSITE OR AREA  Manila and Cebu			1.PRESENT Completed or in Progress Promoting STATUS Completed Partially Completed Delayed or Suspended
Manila and Cebu		2.PROJECT COST   1) (US\$1,000)   2)	Total Cost 13,800 6,600	Local Cost Foreign Cost 7,800 6,000 3,700 2,900	O Implementing O Processing Discontinued or Cancelled (Description)
3.SECTOR Agriculture/Irrigation, 4.REFERENCE NO. 5.TYPE OF STUDY	Drainage & Reclamation F/S	Manila: Construction of 26,000 tons Installation of 300 tons Cebu: Construction of 10,000 tons	/hour pneumatic grain termina	unicaders. 1 silo. nloaders and	(FY1991 Overseas Survey) The Government of the Philippines has no plan to secure financing for the project.  (FY1994 Domestic Survey) No information.
6.COUNTERPART AGENC National Grains Author	Y	construction of 2,000 tens/ the Cost 1) above pertains to Mani prices).	month corn dri	ts mill.	
7.OBJECTIVES OF STUDY					
8.DATE OF SAY	/	Imp. Period:			
9.CONSULTANI(S) Nissin Engineering Co.	, Ltd.	4.FEASIBILITY AND Feasibility: ITS ASSUMPTIONS Yes/No	EIRRI) EIRR2) EIRR3)	FIRRI) FIRR2) FIRR3)	
		Conditions and Development Impa 1. Cost reduction of imported gr. 2. Extermination of damage from indeterioration of grain.	NCIS: ain transportationsects and roo	ion, unloading and storage dents and prevention of	
	] 12 Apr.1977(7 months)				
Total M/M	Japan Field				2.MAJOR REASONS FOR PRESENT STATUS
II.ASSOCIATED AND/OF SUBCONTRACTED STU	L.				The government is no longer interested in pursuing the project due to the policy of deregulation and privatization.
		5.TECHNICAL TRANSFER	J		3.PRINCIPAL SOURCE OF INFORMATION
12 EXPENDITURE Total Contracted	72,011 (¥'000) 61,397	)	alanah kalungang menganga danah kelalah pelah melang Jawa		①、②
2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	えい物のプロジェカト (マニュ	き、4・7時以)			{F/S,D/D}

Compiled Mar.1986 Revised Mar.1996

I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY Philippines  2.NAME OF STUDY  Flood-Forecasting Systems in the Agno, Bicol and Cagayan River Basins	1.SITE OR AREA  Agno, Bicol and Cagayan Rivers / Luzon Island  2.PROJECT COST Total Cost Local Cost Foreign Cost (US\$1,000)  1) 6,535 440 6,094	I.PRESENT Completed or in Progress Promoting STATUS Completed Partially Completed Delayed or Suspended Implementing Processing Discontinued or Cancelled
3.SECTOR Social Infrastructu/River & Brosion Control	(US\$1=291Yen=7.39P) 2) 3) 3.CONTENTS OF MAJOR PROJECT(S)	(Description)  Jan. 1978 OECF L/A signed (1,774 million yen) Feb. 1979 D/D completed Mar. 1982 Construction completed and operation started
4.REFERENCE NO. 5.TYPE OF STUDY F/S 6.COUNTERPART AGENCY Weather Bureau P.A.G.A.S.A.	1. Facilities and network  Agno river Bicol river  Cagayan river  1) Plood forecasting center (Total 1)	Realized project: Flood forecasting center 1 location Relay stations 4 locations Monitor stations 3 locations Telemeter stations 21 locations Subcenters 3 locations Transmission & receiving stations 2 locations
7.OBJECTIVES OF STUDY  Establishment of flood forecasting and warning systems over the three river basins of the Luzon Island	(to transmit hydrological data to FFC)  4) Telemeter stations (total 2i) 8 9  4  5) Sub-center (Total 3) 6) Transmission and receiving stations (Total 2)  2. Provision of personnel 1) Flood forecasting center: Superviser (4) Hydrologist (5)  Telecommunication engineer (6)  2) Monitor station: Hydrologist (8) Telecommunication engineer (11)	Total project cost: US\$8.83 million (QECF US\$7.38 million) (US\$1=24Gyen)
8.DATE OF S/W 1975/11	Imp. Period: 1979.1-1982.7	
9.CONSULTANT(S) CTI Engineering Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS Yes EIRR1) FIRR1)  EIRR2) FIRR2)  EIRR3) FIRR3)	
10.STUDY TEAM  No.of Members 15  Period Nov.1976-Aug.1977(9 months)	Conditions and Development Impacts: Conditions: Target areas of Flood forecasting system 1. Agno river basin: Entire Pangasinan Plain, Central part of Tarlac Province. 2. Bicol river basin: Central part of the basin, from lake Bato to lake Baao and the flood plain surrounding Naga city. 3. Cagayan river basin: Flood plain along the middle reaches from Ilagan to Tumauini, Flood plain along the lower reaches from Tuguegarao to	
Total M/M Japan Field 15.70 6.30 9.40  II.ASSOCIATED AND/OR SUBCONIRACIED STUDY  Survey Radio wave propagation Test	Development impacts:  1. Save life: Flood information services contributes to effective execution of flood fighting activities, mitigation of loss of lives and personal and public assets, furthermore, it contributes to maintain stability of social economy and public welfare.  2. Promotion of development project  5.TECHNICAL TRANSFER	2.MAJOR REASONS FOR PRESENT STATUS  1. Magnitude of effects 2. Factor of continuation 3. High degree of priority 4. Strength of supporting organizations
102,520 (¥'000)   Contracted 39,133	1. OJT: During two years of construction period, total of 34 trainees	3.PRINCIPAL SOURCE OF INFORMATION  (I). (I)

ASE PHL/S 304/77

ASE PHL/S 101/78			Reviseo Mar. 1990
	OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
	Philippines r Flood Control and	1.SITE OR AREA  Pampanga Province (70km westward from Manila)	1.PRESENT In Progress or In Use STATUS Delayed Discontinued
3.SECTOR Social Intrastructu/Wate 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENC Dept. of Public Works at 7.OBJECTIVES OF STUDY Flood control  8.DATE OF S/W 9.CONSULTANT(S) Nippon Koei Co., Ltd. CTI Engineering Co., Ltd. 10.STUDY TEAM No.of Members 1	er Resource Development  M/P Y and Highways (DFWH)	(US\$1,000)  (US\$1=7.4P)  3.CONTENTS OF MAJOR PROJECT(S)  The pasig and Potolero rivers in the western region of Luzon Island causes the flood damage because of the remarkable denudation of mountain region.  The project consists of the following sabo works preventing sediment deposit in the river.  Structure  Scale  Sabo dan  10 nos. (height 14-15m, crest length 31-68m)  Pondage for sediment deposit about 56 ha Levee  17.220m(new), 2,530m(tentative)  Ground sill 13 nos.  Groyne! 349 nos.  sluice 3 nos  Above project cost is in 1979 price.  4.CONDITIONS AND DEVELOPMENT IMPACTS  The Project has the following far-reaching effects: 1170 introduce the damage due to flood and sedimentation. 2170 increase the chance of employment. 3170 stabilize public velfare. 3170 create the chance of employment. 5170 transfer the knowledge on sabo works and river improvement works.	(Description)  1) One sabo dam was constructed by DFWH. River improvement works in the downstream reach is subsequently under way.  2) The construction works are managed by the budget of the Government of the Philippines.  (FY 1991 Overseas Survey)  No additional information.  (FY1993 Overseas Survey)  1. Pasig-Fotrero River Plood Control and Sabo Project The topography of the project area seriously affected by the eruption of Mr. Pinatubo in 1991. As a result, JICA study can not apply for further development.  The implementation of the master plan study around the Mr. Pinatsubo including Pasing-Fotrero River area is conducting under the US technical assistance. This study will complete in March 1994.  (FY1994 Domestic Survey)  A master plan study of the flood control and sabo projects around Mr. Pinatubo was prepared with an technical assistance of US Army Corps of Engineers. The final report of its study was submitted to the Government of Philippines in March 1994 with a following title Mount Pinatubo Recovery Action Plan, Long Term Report, Eight River Basins, March 1994, US Army Corps of Engineers.  The project management office of Mount Pinatubo Rehabilitation (PHO)-MFN) prepared their own urgent rehabilitation plan based on the said master plan and started its Implementation by availing the local funds of the Government of Philippines.
42.97 HASSOCIATED AND/OR SUBCONTRACTED STUE	. •		
12.EXPENDITURE  Total  Contracted	158,282 (¥'000) 89,719	5.TECHNICAL TRANSFER  1) OJT	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、③

#### PROJECT SUMMARY (Other)

Compiled Mar.1990 Revised Mar.1996

I. OUTLINI	E OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
LCOUNTRY  2.NAME OF STUDY  Review on the Feas	Philippines sibility Study of	1.SITE OR AREA whole country	1.PRESENT STATUS In Progress or In Use Delayed Discontinued
Fishing Port Packa	age-1	2.PROJECT COST   Total Cost   Local Cost   Foreign Cost   120,366   59,756   60,610	(Description) (FY1991 Overseas Survey)
3.SECTOR Fisherles/Fisherles		3.CONTENTS OF MAJOR PROJECT(S)  The Study reviewed the following components of the feasibility studies	The five fishing ports reviewed by this study have all been constructed with OECF financing and are now fully operational. Detailed engineering was prepared by the Pacific Consultants International in consortium with BASIC Technology Hanagement Corporation. Construction was undertaken by varous firms over a
4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCE Department of Public W Communication (1977) Dept. of Construction	orks, Transportation, and	The Study reviewed the following components of the feasibility studies of five fishing ports shown below, with supplementary economic evaluation 1. Construction of basic port facilities (mooring gear, sea banks, berths, embankments, anchorages, etc.)  2. Improvement of functional facilities (fish markets, ice plants and cold storage facilities, water supply stations, oil stations, etc.)  - Zamboanga Port  - Iloilo Port  - Camaligan Port	Package I: Modernization of structural and functional facilities at five ports (Iloito, Lucena, Zamboanga, Sual and Camaligan) May 1982 OECF L/A signed (3,630 million yen) Package II: Cold storage at Zamboanga, Lucena and Camaligan)  D/D for five other fishing ports
7.OBJECTIVES OF STUDY Review of the feasibil undertaken by the Gove and supplementary econ	ity studies of five ports	- Lucena Fort - Sual Port	Jun.1985   Iloilo Port completed Jun.1988   Zamboanga Port completed May 1990   Sual Port completed Jan.1991   Camaligan and Lucena Ports completed (FY1994   Domestic Survey)(FY1995   Domestic Survey)   No additional information.
8.DATE OF S/W	1978/3		
9.CONSULTANT(S) Overseas Coastal Area System Science Consult		4.CONDITIONS AND DEVELOPMENT IMPACTS  Conditions: 1.Project life is twenty years after the start of fishing ports operation 2.1978 price 3.Discount rate : 15%	
10.STUDY TEAM  No.of Members  Period	3	Direct impacts: (1) increase of hauls (2) improvement of fish freshness  Indirect impacts: (1) improvement of self-sufficiency of marine products (2) modernization of fishing (3) increase of incentive for investment (4) stabilization of fish price (5) creation of employment opportunities	
Total M/M	Japan Field		2.MAJOR REASONS FOR PRESENT STATUS  The Government of the Philippines assigned high priority to the fishing ports in the application for the 6th Yen Credit Package.
II ASSOCIATED AND/OF SUBCONTRACTED STU	1		rishing ports in the application for the oth len create rackage.
12 EXPENDITURE  Total  Contracted	33,866 (¥'000)	5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、①

ASE PHL/A 601/78

ASE PHL/A 303/78	.0		Keyised mar. 1990
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	HI. PRESENT STATUS OF STUDIED PROJECT
L.COUNTRY  2.NAME OF STUDY  Bohol Integrated Address Project	Philippines gricultural	I.SITE OR AREA  Wahig-Pamacsaran River Easin of Bohol Island  2.PROJECT COST  (US\$1,000)  Total Cost Local Cost Foreign Cost 13,600 18,400 25,200	I.PRESENT Completed or in Progress Promoting  Completed Partially Completed Implementing Processing Discontinued or Cancelled
7.OBJECTIVES OF STUDY	F/S Y on Administration) and two	3.CONTENTS OF MAJOR PROJECT(S)  1) Pamascaran dam: height 67.5m, Malinao diversion dam: height 24.5m  2) Irrigation area Pamascaran Lower area 4.800ha, Upper area 120ha Wahig Upper area: Single cropping 256ha, Double cropping 400ha Total: Single cropping 5,176ha, Double cropping 5,320ha  3) Irrigation facilities Diversion weir 2 places (Upper area) Irrigation canal 131km (Upper area 18km, Lower area 113km) Drainage canal 98km (Upper area 8.4km, Lower area 89.4km) Farm road 118km  4) Power station: Installed capacity 1,700km Annual power generation 5,175MWH  5) Consolidation of terminal facilities	(Description)  Jun.1980 OECF loan agreement signed (E/S 90 million yen) Sep.1983 OECF loan agreement signed [4,600 million yen) The loan is for the construction of an earth dam (height 20.8m, cap. 5.99 million cu.m), irrigation and drainage canals, farm roads and on-farm facilities.  (FY1991 Overseas Survey) The Bohol Project (I) was initially scheduled to be implemented during 1983 - 1989 by the OECF loan. The completion date was later revised from April 30, 1989 to Dec. 1995.  (FY1993 Overseas Survey) At present, only the irrigation component of the original plan was adopted as a Project under Japanese OECF's fund (Yen Credit) with the Project name of 'Bohor Irrigation Project I', and the irrigation facilities are under construction since 1985. There is a technical problem concerning with the strength of the foundation ground. It comes out when implement the construction works of the Malinao diversion dam with a height of 20.8 m. In order to solve this problem, some measures, such as to increase grouting pressure, are investigating. As the construction of the Pamascaran Dam with a dam height of 67.5 m, which was included in the original plan, has been excluded due to the financial restriction.
Period Aug. 1977-N Total M/M  11.ASSOCIATED AND/OR SUBCONTRACTED STUL	DY.	Imp. Period: 1977.8-1978.3  4.FEASIBILITY AND ITS ASSUMPTIONS  Conditions and Development Impacts: EIRR3)  Conditions: Economic benefits are expected of agricultural development and power generation. Agricultural benefits are estimated as the annual net increase in production benefits.  Development Impacts: 1. Increase of agricultural production by introduction of irrigation system 2. Contribution to self-sufficiency of the staple food 3. Increase of employment 4. Correction of imbalanced income distribution 5. Alleviation of energy restriction 6. Improvement of traffic network 7. Dissemination of agricultural technology	There are also no plan to establish a hydro-generating facility.  According to NIA, original schedule to complete the construction works of the Project facilities were expected by the end of 1995. However, because of above-mentioned technical problem and the unfavourable weather of last a few years, there are still some possibility to delay the implementation works of this project.  (FY1994 Domestic Survey)  In 1993, flood caused by Typhoon damaged the dam under construction. This damage will be delayed the completion of the project which is expected on December, 1995.  (FY1995 Domestic Survey)  Early in Aug., 1995, the Malinao Dam has been closed and now is in full of water. Another construction works of the agreement are scheduled to complete on Dec., 1995.
Topogeaphic and geolog  12.EXPENDITURE  Total  Contracted	122,815 (¥'000)	5.TECHNICAL TRANSHER  Survey method and development planning method were transferred to c/ps.	3.PRINCIPAL SOURCE OF INFORMATION  (i), (ii), (ii)

ASE PHL/S 306/78		Revised Mar.199
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS  III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY  2.NAME OF STUDY  Telecommunications the Northern Part of	Philippines  Network Project in of Luzon	1.SITE OR AREA  1.PRESENT STATUS  Completed or in Progress Promoting  Partially Completed  Partially Completed  Implementing  Promoting
3.SECTOR Communications & B/Tele 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Bureau of Telecommunica 7.OBJECTIVES OF STUDY Feasibility study of th Network Project in the	F/S  itions  telecommunications	(Description)  3. (ONTENTS OF MAJOR PROJECTIS)  1. Froject 11 Local exchanges (45), IFTSS (50) 12 Toll switching centers (8) 13 Microwave network (20 hops, 712kms) 14 UNF system (4), VFF system (30) 15 PCN system (4 sections), Nultiplexing equipment (about 3100ch) 16 Truck cable (about 457km) 17 Local cable (about 457km) 18 Telex exchange (2), Telex concentrator (7) General station (32) 19 Telex exchange (2), Telex concentrator (7) General station (32) 10 Charge per call 0.30 pesos 12 Unit time: Inter-provincial call-30 sec 10 Inter-provincial call-5 case 11 Inter-city telecommunication links and telephone exchanges for major cities in Northern Luxon (11 city stations and 6 outside stations and telephone exchanges for major cities in Northern Luxon (11 city stations are and looping main channels.  (FY1993 Overseas Survey) 1996 Scheduled to be completed.  (FY1993 Overseas Survey) 1996 Scheduled to be completed.
8.DATE OF S/W 9.CONSULTANT(S) Nippon Telecommunicatio	1977/12 on Consulting Co., Ltd.	Imp. Period: 19811996.  4.FEASIBILITY AND Feasibility: EIRR1) 6.31 FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)
10.STUDY TEAM  No.of Members 1.  Period Feb. 1978-De  Total M/M  11.ASSOCIATED AND/OR  SUBCONTRACTED STUD	Japan Field 1.30	Conditions and Development Impacts:  Conditions:  1. Estimated telephone demand: 140,000 (Target year: 2002)  2. Range of installation: 1982-1987, 1,300-1,400 per year  3. A loss probability: 0.01  Development impacts:  1. Increase of telephone:9,000  2. Subscriber Toll Dialing Service available from Ilocos and Cagayan areas.  3. Toll call available to Manila  4. Establishment for protection against calamities  5. Development in sightseeing business  6. Technology transfer  7. Cultural and social integrity  8. Maintenance of public order  7. Increase of telephone:9,000  2. Subscriber Toll Dialing Service available from Ilocos and Cagayan areas.  2. MAJOR REASONS FOR PRESENT STATUS  Effectivenoss  - large impact  - high priority
12 EXPENDITURE Total Contracted	61,035 (¥000) 2,356	5.TECHNICAL TRANSIER On the Job Training was concluded for the counterpart staff.  3.PRINCIPAL SOURCE OF INFORMATION  ①, ②, ①

ASE PHL/S 305/78			Revised	
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT	
	lippines	1.SITE OR AREA  Metropolitan Manila (Ayal Ave to R-9, 15km and Edsa to C-5, 8km, totaling 23km in length)  2.PROJECT COST  Total Cost 1) 116,250 76,375 39,875	I.PRESENT Completed or in Progress Promoting  STATUS Completed Partially Completed Delayed or Suspended Implementing Processing Discontinued or Cancelled	
3.SECTOR Transportation/Road  4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCY Dept. of Public Works and His 7.OBJECTIVES OF STUDY Technical and Economical F/S its related road in Metro Ma	F/S ghways (DIWH) of C-3 and R-4 and	(US\$1=8P)  2)  3)  3.CONTENTS OF MAJOR PROJECT(S)  1. Road 1) C-3 Road: 15.5km (South Superhighway - Rizal Av, Balintawak Interchange) 6 lanes 2) R-4 Road: 7.2km (C-4 - Juan Luna with sections overlapping C-5) 4 lanes for R-4 and 6 lanes for the rest 2. Construction plan Phase-1. southern Section of C-3 Road (1978-1985) Stage-1. Construction of a four-lane road (1979-1933) Stage-2. Construction of two additional lanes (1981-1985) Phase-2. Northern Section of C-3 road (1962-1987) Stage-1. Construction of a four-lane road on C-3 road (1983-1984) Stage-2. Construction of two additional lanes on C-3 road and of grade  separation at Quezon-C-3 intersection (1986-1987) Phase-3. Construction of Palintawak branch (1986-1987) Phase-4. Construction of Grade Separation at four intersections (1987-1989)	(Description) Nov.1978 OECF loan(Ph-P26) L/A signed(E/S on C-3 & R-10 296 million yen) Dec.1989 - Jun.1991 Detailed design completed (NK, PCI, UKCI) May.1986 OECF loan (Ph-P74) L/A signed (Metro Manila C-3 1,439 million yen) Project: C-3 Northern Section (7km, 6lanes)and the Makati to Mandalyon Section (3km,4lanes) Jan.1988 OECF loan (Ph-P78) L/A signed (C-5 & R-4 4,837 million yen) Project: southern C-5, and eastern R-4 connecting C-4(EDSA) and C-5 Apr.1989 - Jan.1991 Detailed Design (southern C-5, and eastern R-4) compledted (Katahira & Engineers) May 1989 OECF L/A(PH-P35)signed(Metro Manila Outer Major Roads 4.776 million yen) Project: Mandanao Av. Extension(8km,6lanes), R-10 widening(6km), C-3Southern Section(9km, 6lanes)and related roads(23km) [FY1992 Overseas Survey) 1.C-3: Construction commenced in June 1988. Northern C-3 Package A- 1(N. Domingo St Sto. Domingo St.) was completed. Of Package A- 1(N. Domingo St Rizal Av. Extension), the section from Sto. Domingo to A. Bonificio has been completed, but the construction of the remaining section through Rizal Av. Extension has been suspended pending the aquisition of the necessary right of way. With reyard to the Southern Section of C-3, the construction has not been started	
8.DATE OF S/W  9.CONSULTANT(S)  Japan Overseas Consultants Contemporaries Consultants Cons	1977/3	Imp. Period: 19781982.  4.FEASIBILITY AND Feasibility: EIRR1) 49.90 FIRR1) EIRR2) FIRR2) FIRR3) FIRR3)	due to the difficulty of acquiring the right of way. GUP is considering the possibility of withdrawing the section from OECF finance. Total investment 522 million pesos/foreign currency 288 million, local currency 294 million).  2. R-4: The construction from the end of R-4 through C-5 has been commenced, but the construction of the eastern R-4 has been suspended pending the relocation squatters.  (EV1993) Overseas Survey)	
10.STUDY TEAM		Conditions and Development Impacts:  Conditions:  Traffic projection (1980) Average annual traffic growth  (1980-2000) C-3 Road 629.000 vehicle-km/day R-4 Road 201,800 vehicle-km/day 3.68	May 1994: C-3, Segment 9-11 scheduled to be completed. Jun.1994: R-4 scheduled to be completed. (FY1994 Domestic Survey) • The northern section of the C-3 (N.Domingo-Rizal Av. Extension) was completed on Dec.1994. • The R-4 (EDSA-2.4km) is under construction as a part of contract packages of the C-5 Road Project. The road was partially completed and remaining part is scheduled to complete on March 1995.	
No.of Members 12 Period Mar.1977-Mar.1 Total M/M Ja	apan Field	Development Impacts:  1. Unit time value saved: Calculated on the basis of the annual income of families and the annual working hours by non-car owners and car owners.  The esimated time value of passengers was reduced by 50 percent in the calculation of time cost because these passengers could not normally fully  utilize the time they have.  (peso) Non-car owner Car owner  (peso) Non-car owner Car owner  1) To/from work 0.73 2.62  2) Business 1.47 5.25  2. Vehicle-operating cost saved  1) Passenger car 0.29(peso) 2) Truck 2.55  3) Bus 2.73 4) Jeepney 1.78  3. Traffic volume decreased: 12,000 vehicles/day  5.TECHNICAL TRANSFER	(FY1995 Domestic Survey) The construction works are completed as on schedule.  2.MAJOR REASONS FOR PRESENT STATUS  1) Efficient relief of traffic congestion in the Metropolitan area was recognized. 2) This study was given high priority.	
12 EXPENDITURE  Total  Contracted	172, 920 (¥ 000) 159, 884	Used local consultants efficiently in air photography, soil and material survey and geotechnical survey.	3.PRINCIPAL SOURCE OF INFORMATION  ①、③、④	

ASE PHL/S 102/79

I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
1.COUNTRY Philippines 2.NAME OF STUDY Bohol Integrated Area Development	I.SITE OR AREA  Bohol Province (4,120 sq.km, pop.0.76 million)	LPRESENT STATUS  In Progress or In Use Delayed Discontinued
Project  3.SECTOR	2.PROJECT COST  (US\$1,000)  1)  Total Cost 549,300  2)  Local Cost Foreign Cost 549,300	(Description)  1) Based on the recommendations of the study, the irrigation and drainage development project, including the construction of rural roads and tertiary irrigation facilities are under implementation by the National Irrigation Administration (NIA) with OECF finance.
Development Plan/Integrated Regional Development Plan  4.REFERENCE NO.  5.TYPE OF STUDY M/P  6.COUNTERPART AGENCY	The study formulated the area development plan with central focus on the irrigation development project in the Wahig-Pamacsalan River basin (the F/S conducted by JICA). Major proposals are as follows.  1) Water resource development:  - Wahig-Pamacsalan irrigation development  - Taobijaran pumning station 2) Agriculture:	Jun 1980 OECF E/S loan agreement (90 million yen) Sep 1983 OECF loan agreement (4,600 million yen) Apr 1985 Construction started Jun 1993 Construction to be completed  Realized project: - Earth dam (hight 20.8m) - Irrigation & drainage canals, rural roads & on-farm development
Mational Council on Integrated Area Developmen (MACIAD)	- Establishment of a center for soil technology development and agricultural promotion - Establishment of a Wahig-Pamacsalan pilot farm - Development of the livestock sector  3) Pisheries: Establishment of a fish processing base at	2) The Bohol Agricultural Promotion Center (BAPC) was established by the Japanese grant (E/N in July 1983, 970 million yen).  3) Technical cooperation (Bohol Agricultural Promotion Center Project) was implemented by JICA during 1983-1990.
7.OBJECTIVES OF STUDY Formulation of a area development plan centerion the Wahig-Pamacsalan River basin	the port of Cogtong  4) Forestry: Reforestation/rehabilitation of the basin  5) Mining and industry: Skill development of small industries	(FY1991 Overseas Survey)  BAPC was integrated to the research program of the regional outreach station for the lowland irrigated rice developmental zo
		(FY1993 Overseas Survey) - Technical problem on its foundation and natural disaster postponed the completion of the Bohol Irrigation Project to 1996 JICA is conducting post evaluation on the Bohol Agricultural Premotion Center.
8.DATE OF S/W 1978/8	4.CONDITIONS AND DEVELOPMENT IMPACTS	- Because new administration of the Philippines selected the Bohol - Integrated Area Development Project as one of the 19 Flagship (high priority) Projects of the President starting in 1994, M/P needs
9.CONSULTANI(S)  Pacific Consultants International Mitsubishi Research Institute	Bohol Province is one of the underdeveloped provinces included in the Central Viseyas (or Region VII). The integrated area development will contribute to the narrowing of regional income disparities through strengthening the inter-sector linkages in development.  Major development impacts are (1) increase of income, (2) creation of employment, (3) creation of demands, etc.	updating.  (FY1994 Domestic Survey) (FY1995 Domestic Survey)  No additional information.
10.STUDY TEAM		
No.of Members 14 Period Jun.1979-Feb.1980(8 months)		
Total M/M Japan Fie	ld	2.MAJOR REASONS FOR PRESENT STATUS
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Topographic Survey and Geological Survey		
12 EXPENDITURE   96,994 (¥'0)	5.TECHNICAL TRANSFER  O) Out for the counterparts and participation of the counterparts in the JICA training program	3.PRINCIPAL SOURCE OF INFORMATION  (i), (ii), (iii)

ASE PHL/S 307/79		والمراقب والم		and the second s		KCA1260 LILL 12220
I. OUTLINE OF STUDY		II. SUMMARY OF	STUDYR	ESULTS	III. PRESENT STATUS OF STU	DIED PROJECT
1.COUNTRY  2.NAME OF STUDY  Hospital Developmen	Philippines nt Project	1.SITE OR AREA  Ilocos and Cagayan Valley Province  2.PROJECT COST 1)  (USS1,000) 2)	es Total Cost 128, 388	Local Cost Foreign Cost 128,388	O Implementing	Promoting  Delayed or Suspended  Discontinued or Cancelled
3.SECTOR Social Infrastructu/Arc 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENC Ministry of Health 7.OBJECTIVES OF STUDY	F/S Y	(US\$1=7.415P)  3)  3.CONTENTS OF MAJOR PROJECT(S)  1)Medical centers: 4 location 2)Regional hospitals: 2 location 3)Provincial hospitals: 13 location  • Implementation period is 6 years	ns, 500 beds ns, 1,500 beds		(Description)  Cancelled after the completion of the feas  (FY1991 Overseas Survey)  No additional information.  (FY1994 Domestic Survey)  No additional information.	ibility study.
8.DATE OF SAV	1978/12	Imp. Period:	EIRR1)	FIRRI)		
7 1 7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15 Teb.1980(11 months)	4.FEASIBILITY AND ITS ASSUMPTIONS  Conditions and Development Impactonditions: 1) Containment of communicative di 2) old buildings to be renovated facilities to be added. 1) Improvement of water supply and 1) Power generation to maintain the power failures. Development impaction of medical employment.  Creation of medical employment indication of local medical indications.	EIRR2) EIRR3) Cts: iseases. is wards and not drainage systeminimum basits: bor force	FIRR2) FIRR3) ew diagnostic and treatme	nt	
Total M/M 30.32 HASSOCIATED AND/OR SUBCONTRACTED STUI	3	5.TECHNICAL TRANSFER		<del>de la familia de la como de la c</del>	2.MAJOR REASONS FOR PRESENT STATU  Lack of funds.  3.PRINCIPAL SOURCE OF INFORMATION	s J
Total Contracted  Total は なる。  「おりまする。  「これ」  「これ」	82,114 (¥'000) 76,174				①. ②	{F/S,D/D}

ASE PHL/S 103/80			Revised Mai. 1996
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
1.COUNTRY  2.NAME OF STUDY  Mayon Volcano Sabo	Philippines and Flood Control	1.SITE OR AREA  Surrounding area of Mayon volcano in the southeast of Luzon	1.PRESENT In Progress or In Use STATUS Delayed  Discontinued
3.SECTOR Social Infrastructu/Rive 4.REFERENCE NO.		(US\$1,000)  (US\$1,000)  (US\$1=7.5P)  2)  3.CONTENTS OF MAJOR PROJECT(S)  Construction of sabo facilities for sabo and flood control in the surrounding area of Mayon volcano and establishment of disaster prediction	(Description) The Government of the Philippines had budgeted the project in the five-year development plan. But this budget was used for other projects. The project area was seriously affected by the typhoon in 1981, and the JICA follow-up study was undertaken to review the master plan. Based on the findings of this study, the Philippine Government implemented some of the proposed jetties with its own funds.  (FY1991 Overseas Survey)
5.TYPE OF STUDY 6.COUNTERPART AGENCY Dept. of Public Works a		and warning system  Sabo : Sabo Bam 2nos. Consolidation dam 4nos.  Facilities Jetty 15nos. Spur Dike 43nos.  Groyne 4nos. Consolidation 34nos  Disaster Prediction and warning system:  Telemetering Rainfall/ waterlevel gabying stations. Automatic warning	No additional information.  (FY1993 Overseas Survey)  2. Nayon Volcano Sabo and Flood Control Project No description for this project.  (FY1994 Domestic Survey)(FY1995 Domestic Survey)
7.OBJECTIVES OF STUDY Sabo and Flood Control River The Quinali (B)Ri	plan for the Quinali (A) iver and the Yawa River	System, warning cars, connection with the existing forecasting and warning system of Bicol river basin.  Above project costs are in 1980 prices.	No additional information.
8.DATE OF S/W  9.CONSULTANT(S)  Nippon Koei Co., Ltd. Sabo Technical Center	1978/6	4.CONDITIONS AND DEVELOPMENT IMPACTS  This Sabo project will performed as the social works to insure the social stability of the region. This project will contribute to the insurance of better livelihood of people in the region.  Beside the sabo project, river improvement, irrigation and disaster prediction and warning system shall be done as the one of the total measures for disaster.	
No.of Members 2	] 3 53 5ar.1981(9 months)  Japan Field 40.36 32.02		2.MAJOR REASONS FOR PRESENT STATUS
11.ASSOCIATED AND/OR SUBCONTRACTED STUL Note  12.EXPENDITURE Total		5.TECHNICAL TRANSFER  1)OJT 2)JICA Training (2 trainees, 1 month) 3)Cooperation to prepare reports 4)Equipment donation and instruction	3.PRINCIPAL SOURCE OF INFORMATION  (i), (ii), (iii)
Contracted	231,034		

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I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
1.COUNTRY  2.NAME OF STUDY  Ilocos Norte Irriga	Philippines tion Project	1. SITE OR AREA  Ilocos Norte Province in northwest end of Luzon Island  2. PROJECT COST  (US\$1,000)  I) 331,000 120,600 210,500	I.PRESENT 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 AGENCY National Irrigation Admi  7.OBJECTIVES OF STUDY Agricultural development of irrigation facilities generation	F/S inistration (NIA)	US\$1=7.4peso  3)  3.CONTENTS OF MAJOR PROJECT(S)  Phase 1 Phase 2 Phase 1 Phase 2 Phase 2 Phase 2 Phase 2 Phase 2 Phase 2 Phase 3 Phase 4 Phase 2 Phase 2 Phase 4 Phase 2 Phase 2 Phase 3 Phase 4 Phase 2 Phase 4 Phase 2 Phase 4 Phase 2 Phase 2 Phase 3 Phase 4 Phase 2 Phase 4 Phas	(Description)  The Phase I of the proposed project is under implementation with OECF financing.  Jun.1980 OECF L/A signed (E/S 70 million yen)  Jun.1981 OECF L/A signed (5,000 millio yen)  The loan finances the construction of 5 diversion weirs, irrigation and drainage canals, farm roads, and other related facilities.  Apr.1982 Construction started Dec.1993 Construction to be completed  A pilot project of on-farm irrigation facilities was implemented by the Japanese grant during 1981-1982.  (FY1991 Overseas Survey)  The financial arrangement for the project (Phase II) was not successful.  The project is likely to be revived, but the timing is not known.  (FY1993 Overseas Survey)  Phase I, which covers the irrigating area of 10,200 ha, of the original plan was adopted as a Project under Japanese OECF loan with a Project name of "Ilocos Norte Irrigation Project (1)" and
8.DATE OF SAV	1975/11	Imp. Period: 19801984. 19821987.  4 EFASIBILITY AND   Prochibition   EIRR1)   13.20   FIRR1)	implemented since 1982. After the construction was completed in 1987 the intake weir was destroyed by a typhoon. The repairment works were commenced from 1990 and completed on December, 1993 by means of an additional financing of OECF.  These II which covers the irrigation area of 12,400 ha, is now
9.CONSULTANT(S) Sanyu Consultants Inc.  10.STUDY TEAM  No.of Members 16 Period Aug. 1978-De  Total M/M 96.92  11.ASSOCIATED AND/OR SUBCONTRACIED STUDY	Japan Field 37.18 59.74	AFEASIBILITY AND ITS ASSUMPTIONS  Yes  EIRR2) 14.00 FIRR2)  EIRR3)  Conditions and Development Impacts:  [Conditions]  Economic benefits are expected of agricultural development and electric power generation. Agricultural benefits are estimated as the difference of net income from crop production between with-project and without-project conditions.  Benefits net income from crop production. (million pesos)  1984 1987 1992  with project 120 147 374  without project 117 122 129  [Development Impacts]  Increased crop production, improved farmers' income and living standard, increased employment opportunities.  The EIRR 1) above is for phase I, and 2) is for Phase II.	waiting for the approval of RDCI (regional Development Council I).  After getting the approval, it will be investigated by ICC (Investment Control Committee). This Project has been planned as for a project for the period of 2001 to 2008 in COFREAN (1993-2002) by NIA, and included in its programme to request the financing of OECF.  Since it has been more than ten(10) years passed after the origina survey works, the Philippines Governmental Authority concerned carried out the survey works of the environmental assessment on this project, and completed the inspection from the environmental viewpoint by EMB (Environment Management Bureau).  (FY1994 Domestic Survey)  RDC-1 has endosed this project in 1994.  (FY1995 Domestic Survey)  NIA wishes to implement the Fhase-II by the 21st Yen Credit, and i providing to request.  2.MAJOR REASONS FOR PRESENT STATUS
12.EXPENDITURE  Total  Contracted	328, 554 (¥'000) 290, 172	S.TECHNICAL TRANSFER  Survey method and development planning method in each sector were transferred to counterparts assigned during the period of the survey	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、③、①

ASE PHL/S 308/80	are a second of the second of		
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY	Philippines	I.SITE OR AREA	I,PRESENT [] Completed or in Progress Promoting STATUS O Completed
2.NAME OF STUDY Manila-Bataan Coas Related Roads	tal Road and its	Metro Manila area, in the Central west zone of Luzon Island  2.PROJECT COST  (US\$1,000)  (US\$1,000)  2)	O Partially Completed Delayed or Suspended
3.SECTOR Transportation/Road  4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENCE Dept. of Public Works  7.OBJECTIVES OF STUDY Road plan	F/S Y and Highways (DFWH)	3)  3.CONTENTS OF MAJOR PROJECT(S)  Description Construction of new Harbour Road Construction of new C-5 Road Reclamation and social infrastructure facilities Flyovers and repavement  Scale 7.0km 8.6km 900ha 5 sites & 15.6km	(Description)  Jan. 1988 OECF L/A signed (E/S package loan 2 billion yen)  With part of the E/S loan (108 million yen), the detailed design study was undertaken on the western and southern sections of C-5 (Katahira & Engineers International, and TCGI Engineers). In 1990, the Government decided to implement the project by BOT, after scaling down the project.  [FY1992 Overseas Survey] Jun. 1992 After the eruption of Mt. Pinatubo in Nov. 1991, the road was somewhat moved toward inland, and the D/D was completed on C-5.  The construction of C-5 has been delayed owing to the problem of land acquisition. The D/D of C-6 is yet to be undertaken, and the similar problem of land acquisition is expected.  [FY1993 Overseas Survey] BOT scheme on C-5 road and Manila-Bataan road is envisioned. The Medium Term Public Investment Program (MTPIF) includes the Project as a priority project to support the Subic Bay Development Program under the SBMA (Subic Bay Metropolitan Authority).
	1070/0	Inn. Pariod: 1981, ~1987.	(PY1994 Domestic Survey) (FY1995 Domestic Survey) No additional information.
8.DATE OF S/V  9.CONSULTANT(S)  Pacific Consultants In		Imp. Period: 19811987.  4.FEASIBILITY AND ITS ASSUMPTIONS Yes EIRR1) 22.60 FIRR1) 60.00 EIRR2) FIRR2)  EIRR3) FIRR3)	
Japan Overseas Consultants Co., Ltd.  10.STUDY TEAM  No.of Members 13  Period Jan. 1979-Mar. 1980 (14 months)		Conditions and Development Impacts: The project consists of 2 components: Road and Reclamation. The value of EIRR/FIRR was calculated from both projects. Condition:  1) Existing price mechanism does not change when general price increases as price of petroleum products go up. 2) Existing mode of public transportation service does not change. Development impact: 1) Formulation of well-organized city function in suburban area as well as expansion of urban area. 2) Expansion of new industrial/commercial district as a result of superiority of commercial location. 3) Promotion of regional development through industrial district.	
Total M/M	Japan Field 9.90 48.27		2.MAJOR REASONS FOR PRESENT STATUS
II.ASSOCIATED AND/OF SUBCONTRACTED STU Topographic and Geogra	DY		
12 EXPENDITURE  Total  Contracted	168,421 (¥'000) 164,825	5.TECHNICAL TRANSFER  1) Overseas training 2) Report writing with counterpart staff	3.PRINCIPAL SOURCE OF INFORMATION  ①, ②, ③
THE WAR SHOWN IN MATTER AND THE WAR PROPERTY AND A SHOWN THE PROPERTY AND A SHOWN THE PARTY AND A SHOWN THE PA	道路 3: 1 17C-5 C-6道路银铃	I liái	{F/S,D/D}

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I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
I.COUNTRY 2.NAME OF STUDY	Philippines	1.SITE OR AREA  Davao in Mindanao	I.PRESENT In Progress or In Use STATUS Delayed Discontinued
Davao City Urban '	Transport and Land Use	AND THE RESIDENCE AND ADDRESS OF THE PARTY O	C. Discontinued
		2.PROJECT COST  (US\$1,000)  1)  246,312  110,067  136,245	(Description)  Part of the recommendation on public transportation (e.g. improvement of jeepney transportation) was implemented, but the utilization of the entire plan has not been realized.
3.SECTOR Transportation/Urban	Transportation	3.CONTENT'S OF MAJOR PROJECT(S)	(FY 1991 Overseas Survey) Some of the projects recommended by this study were implemented by the IBRD - assisted Regional Cities Development Project (RCDP).
4.REFERENCE NO.		1)Regional development 7 industrial estates; 6 commercial centers; 2 educational urban centers; 1 administrative center; 2 port expansion	(FY 1993 Overseas Survey) 3. Pampanga Delta Development Project
5.TYPE OF STUDY	M/P	2) Road 25 new trunk road sections: 40 improvement sections	OECF has concurred the contract of the four contract packages in
6.COUNTERPART AGENC Dept. of Public Works	CY and Highways (DAWH)	3)Public transportation introduction of bus transport 4)Traffic control improvement of interchanges; signals; exclusive bus lanes	July 15, 1993. Offices for implementation agency, consultant, contractor are set up on the site area. The reasons behind of schedule are, 1) Relocation of squatters affected by the project, 2) persuasion of some opposition groups, and 3) obtain environmental compliance Certificate that pointed out by the OECF. Unless solve the problems OECF does not furnishes funds
7.OBJECTIVES OF STUD Formulation of a land transportation master	use plan and a		for first payment. The PMO together with the consultant and contractor is undertaking the reconstruction survey to establish necessary control points and boundary lines.
			(FY1993 Overseas Survey) RCDP included following three major components Installation of traffic signals - Construction of waiting sheds - Construction of Cabaguio Road
8.DATE OF SAV	1979/3	TO A DEPTH OF A NICE OF A NICE OF A CONTROL	(FY1994 Domestic Survey) (FY1995 Domestic Survey)
9.CONSULTANT(S) Nippon Engineering Co Nippon Koei Co., Ltd.	nsultants Co., Ltd.	4.CONDITIONS AND DEVELOPMENT IMPACTS  The proposed plan will contribute to the alleviation of the existing transportation problems and to the planning on land use, public transportation, road network development and traffic control to meet the future demand.	No additional information.
LO OTHERWISE AM			
No.of Members	<b></b> 17		
110,01 Memoers	-Dec.1981(30 months)		
1000 000112773			2.MAJOR REASONS FOR PRESENT STATUS
Total M/M	Japan Field		Z.MAJOK READONOTOK I READERT VICE SO
136.93	17.33 119.60		
II.ASSOCIATED AND/C			
		5.TECHNICAL TRANSFER	3.PRINCIPAL SOURCE OF INFORMATION
12.EXPENDITURE Total	326, 652 (¥'000 323, 320	The state of the s	1), 2
Cantenala			

ASE PHL/S 309/81			Revised Mar. 1996
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY  2.NAME OF STUDY  Rural Telecommunic		1.SITE OR AREA  Luzon, Mindoro, Lubang, Palawan, Panai, Tablas, Romblon	1.PRESENT Completed or in Progress [] Promoting STATUS Completed O Partially Completed Delayed or Suspended
Regions III (Centr (Southern Tagalog)		Company   Content   Cont	(Description)  Implementing O Processing Discontinued or Cancelled
3.SECTOR Communications & B/Tel	lecommunication	3) 3.CONTENTS OF MAJOR PROJECT(S) Phase 1(1991) Phase 2(1994) Total	Dec.1987 OECF E/S loan agreement (707 million yen) Nov.1988 Contract signed with a consulting firm. Feb.1990 OECF loan agreement (21,752 million yen)
4 REFERENCE NO. 5.TYPE OF STUDY	F/S	Telephone Installation Plan 8,210 5,510 13,720 SHF system 9 sapns/466.3km 2/115.4km 11/581.7km UHF/VHF system 34 spans 110 spans 144 spans	The loan finances the telecommunication network connecting 71 cities in Regions III, IV and V with Manila and intra- and inter-city telephone exchanges.  May 1991 Contract signed with a contractor
6.COUNTERPART AGENC Bureau of Telecommunic	Y	Telex exchanges   2	Jun.1991 Construction started Jul.1993 Construction is scheduled to be completed  (FY1993 Overseas Survey) Jul.1994 Construction is scheduled to be completed.
7.OBJECTIVES OF STUDY To determine the feasi Telecommunications Pro		(Radio station, Telphone Office etc.) Access roads  32.5km  55.7km  88.2km	(FY1994 Domestic Survey)(FY1995 Domestic Survey) No additional information.
8.DATE OF SAV	1980/4	Imp. Period: 19821986.	
9.CONSULTANT(S) Nippon Telecommunication	on Consulting Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS Yes EIRR1) 72.53 FIRR1) 7.26 EIRR2) 11.75 FIRR2) 6.89 EIRR3) FIRR3)	
	13 Mar.1982(12 months)	Conditions and Development Impacts:  1) Rehabilitation of the existing old telecommunicating facilities at the objected areas.  2) Improvement of the telecommunications services at the objected areas.  3) Development in administrative efficiency and enhancement of timely administration.  4) Progress of regional industries and regional development.  5) Contribution to tourism and the tourist industry.  6) Development in living environment in rural areas.  7) Development of reliability of telecommunication and spread of demand for telecommunication.	
Total M/M	Japan Field	Note: The EIRRs and PIRRs 1) and 2) above are for the Phase 1 and the entire project.	2.MAJOR REASONS FOR PRESENT STATUS
11.ASSOCIATED AND/OR SUBCONTRACTED STUL None			(1) Effectiveness (2) High priority
12 EXPENDITURE  Total  Contracted	46,006 (¥'000) 15,139	5.TECHNICAL TRANSFER  [1]Trainee acceptance; 2 counterparts invited to Japan [2]On-the-Job-Training for counterparts	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、④

ASE PHL/S 310/81			
I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDIED PROJECT
I.COUNTRY 2.NAME OF STUDY	Philippines	1.SITE OR AREA  Panpanga River Basin (0.32 million ha) in Luzon	LPRESENT Completed or in Progress Promoting  STATUS Completed
Pampanga Delta Dev	relopment Project	2.PROJECT COST   Total Cost   Local Cost   Foreign Cost   182,666   102,666   80,000   (U\$\$1,000)   2)   84,000   49,333   33,333	O Partially Completed [] Delayed or Suspended Implementing Processing Discontinued or Cancelled (Description)
3.SECTOR Social Infrastructu/Rive 4.REFERENCE NO. 5.TYPE OF STUDY 6.COUNTERPART AGENC Dept. of Public Works National Irrigation Ad	F/S Y and Highways (DPWH) and	3)  3.CONTENTS OF MAJOR PROJECT(S)  1) Flood control  river channel improvement 40km; revetment 97km; excavation of low-water channel in a volume of 13 million cu.m; embankment of existing levee to be heightened 35.6km; embankment of base mound 48.8km; revetment 4km; outlet culvert 19 places; outlet culverts incl.fishpond intakes of 26nos; bridges 2 places  2) Irrigation development  - 1 weir, irrigable area of 14.000 ha  - Main canals 37 km, secondary and tertiary canals 145 km  1 Implementation 11 is 10 years.	May 1986 OECF E/S loan agreement (705 million yen) Oct.1987-Nay 1990 Detailed Design Jun.1989 OECF Appraisal of Flood Control Component Feb.1990 OECF loan agreement (8.63 billion yen) for flood control Mar.1991 OECF Appraisal of Irrigation Component Jul.1991 OECF loan agreement (9.43 billion yen) for irrigation Jan.1992 Construction (flood control) started Dec.1992 Construction (irrigation) started Mar.1997 Construction (flood control) to be completed Oct.1998 Construction (irrigation) to be completed (FY199) Overseas Survey)
7.OBJECTIVES OF STUDY Review of the master p analysis of priority p	lan and feasibility	Implementation 2) is 7 years.	into four divisions of construction in Jul. 1991. The Implementation body, consultant and sub-contractor established the local office. The reasons of construction delay are: 1)delay of transfer the habitants in the construction area, 2)difficulty of persuasion of opponents, 3)needs to get the Environmental Compliance Certificate. DPWH has been striving to solve such problems.
	T		The Environmental Compliance Certificate was approved and issued in May 1994. However, OECF has not commenced disbursement of the Loan for the construction fund yet, because it is impossible to start the
9.CONSULTANT(S) Nippon Koei Co., Ltd. Nikken Consultants., I	1980/5	Imp. Period:4.FEASIBILITY AND ITS ASSUMPTIONSFeasibility:EIRR1)10.80FIRR1)EIRR2)15.40FIRR2)EIRR3)FIRR3)	construction actually until the completion of right-of-way acquisition and house compensation.  Therefore, the Contractors suspend the Civil works. DPWN has been striving to solve problems of right-of-way acquisition and house compensation in the area for the 1st year construction out of 4-year construction by the end of 1994. Therefore, the construction works will be resumed at the beginning of 1995.
10.STUDY TEAM No.of Members	20	Conditions and Development Impacts:  [Conditions]  Flood control benefits are the expected reduction of flood damages for farm crops, fisheries, private properties, public facilities and so on, and the expected production increase for the land having not been utilized during the wet season.  Irrigation benefits are the increment of farm income of crops between with and without project conditions.	(FY1995 Domestic Survey)  Before commencement of the construction of the irrigation project, re-examination of the design, pre-qualification and preparation of the tender documents are carried out during Feb., 1992 to Feb., 1993, P/Q was done on Dec., 1992. However, due to the effects of the eruption of Pinatubo volcano, the implementation works suspended on Feb., 1993. On Feb., 1994, NIA requested reopening the implementation. Then OECF despatched SAPI Team (Nippon Koei Co.,
Total M/M	Jupin.	[Impacts] i) The land area of 19,000 ha and 13,400 buildings will be protected from floods by the flood control project, and annual rice production will increase by 15,000 tons and annual fishery production by 2,400 tons.  2) Rice production will be increased by 47,000 tons by irrigation development. Farmers' income will increase from four to six times.	Jul., 1995. Their conclusion is expected to come out from the Team upto Dec., 1995.  2.MAJOR REASONS FOR PRESENT STATUS
107.48 11.ASSOCIATED AND/OF SUBCONTRACTED STU Topographic mapping	R	5.TECHNICAL TRANSFER	
12.EXPENDITURE  Total  Contracted	435,309 (¥'000) 267,522	(1) Technical meetings and transfer of knowledge through monthly meetings.	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、③、④
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#### PROJECT SUMMARY (Basic Study)

Compiled Mar.1990 Revised Mar.1996

I. OUTLINE OF STUDY	II. SUMMARY OF STUDY RESULTS	III. PRESENT STATUS OF STUDY RESULTS
1.COUNTRY Philippines  2.NAME OF STUDY  Topographic Mapping Project for Cagayan	Northern part of Luzon Island (from Ilagan of Isabela Prov. to Aparri of Cagayan Prov.;11,000sq.km)	LPRESENT In Progress or In Use STATUS Delayed Discontinued
3.SECTOR Social Infrastructu/Survey & Mapping	2.PROJECT COST  (US\$1,000)  Total Cost Local Cost Foreign Cost  1)  2)  3.CONTENTS OF MAJOR PROJECT(S)	(Description) (FY1991 Overseas Survey) Geodetic control data from the study were used by government and private surveyors. Topographic maps were used for the development planning of the mapped areas; particularly in river basins and coastal zones.
4.REFERENCE NO. 5.TYPE OF STUDY Basic Study	1st year: aerophotos (1/30,000, 15,000 sq.km) 2nd year: datum points surveyed 3rd year: aero-triangulation and orthoscopic photos 4th year: aero-triangulation, topographic original maps, ortho-photo maps 5th year: topographic maps (1/25,000, 72 plates)	(FY1993 Overseas Survey) Topographic Mapping Project for Cagayan Valley: Output is Highly evaluated and appreciated. After completion, NAMRIA has expansion of surey areas by local fund.  (FY1994 Domestic Survey) (FY1995 Domestic Survey)
6.COUNTERPART AGENCY Ministry of Defense, Dept.of Coastal Survey		No additional information.
7.OBJECTIVES OF STUDY  1:25,000 National Base Mapping covering approx 11,000 km2 of Cagayan Valley Area in Northern Luzon Island.		
8.DATE OF S/W 1978/3		
9.CONSULTANT(S) International Engineering Consultants Association 10.STUDY TEAM No.of Members 19 Period Feb. 1979-Feb. 1983 (48 months)	stereo-plotting an aerial photography in the scale at 1:30,000 was carried out. The scale of 1:30,000 for the photography was considered in order to meet proper scale for generation of the orthophoto-map is the scale at 1:10,000 that was conducted in paralled with 1:25,000 mapping.  2. The symbols and specifications for the 1:25,000 national base map was determined on the basis of existing Philippine 1:25,000 symbols and specifications through detail discussion between Japan and Philippine side to present current local state.  3. As to Photo-controls for stereo plotting, Philippine BCGS made control point survey by employing NNSS observation in the area where nigher trangulation survey nortraversing were expected with difficulty in executing those surveying due to limited to pography.	
Total M/M Japan Field  II.ASSOCIATED AND/OR  SUBCONTRACTED STUDY	1. It should be possible to provide basic data to formation of general development scheme in the study Area. As the areas to be given benefit were transportation, flood control, intergrated agriculture port rehabilitations, etc.  2. Technical transfer to Philippine counterpart's personnel in preparation of 1:25,000 base map which was never experienced in Philippine history through the implementation of the study.	2.MAJOR REASONS FOR PRESENT STATUS
12 EXPENDITURE 931, 676 (¥'000 Contracted 803, 651	5.TECHNICAL TRANSFER  ))	3.PRINCIPAL SOURCE OF INFORMATION  ①、②、③

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