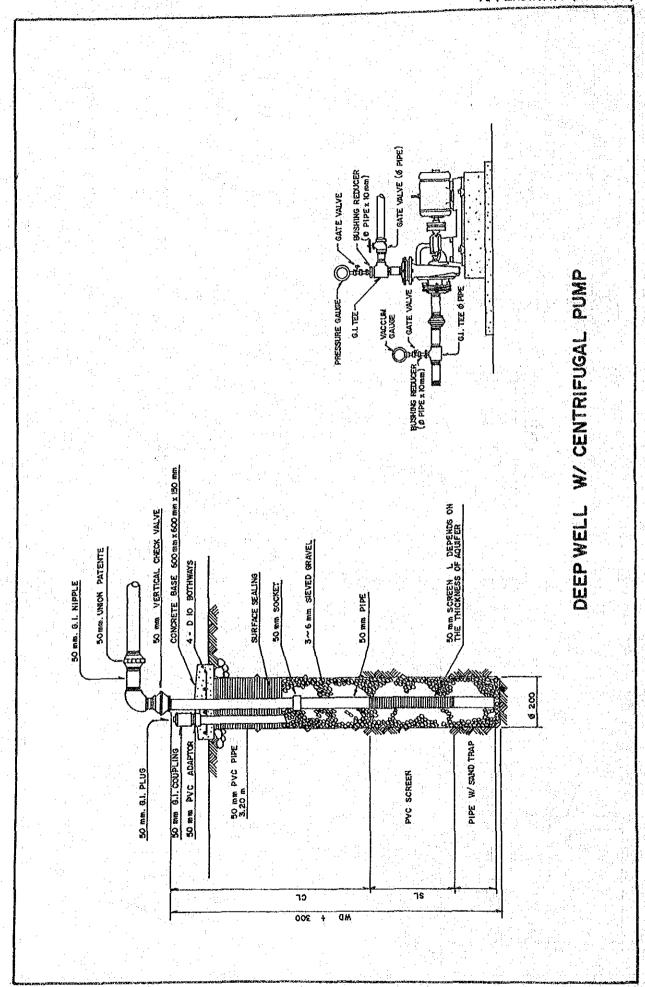
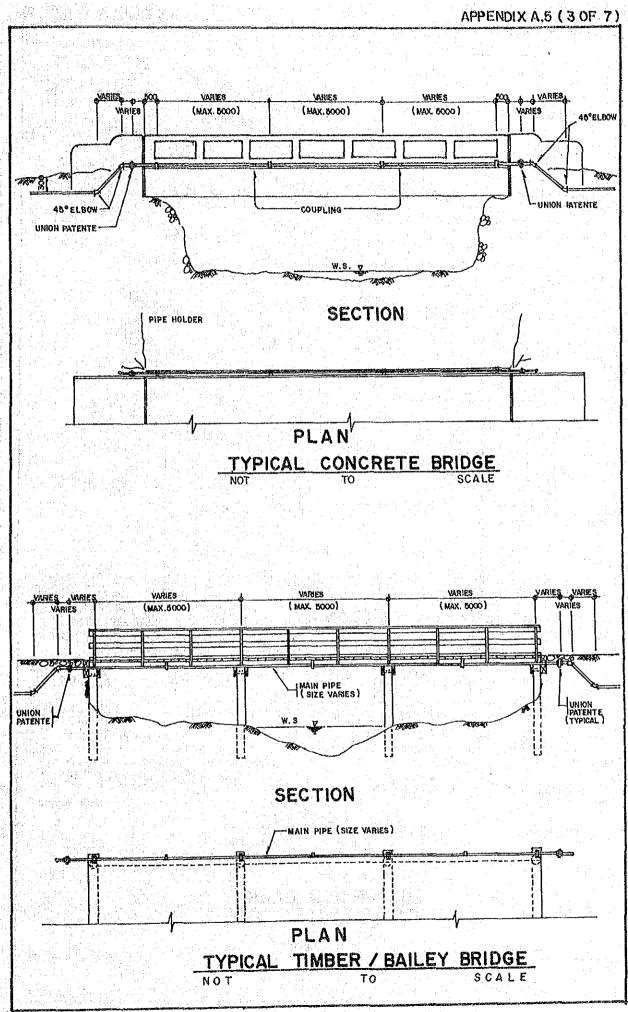
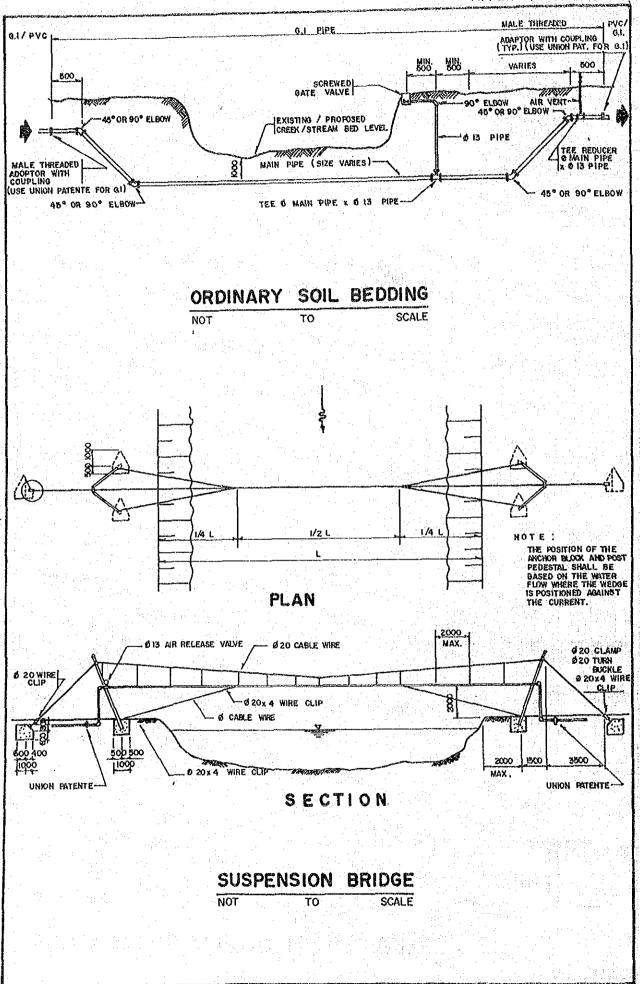
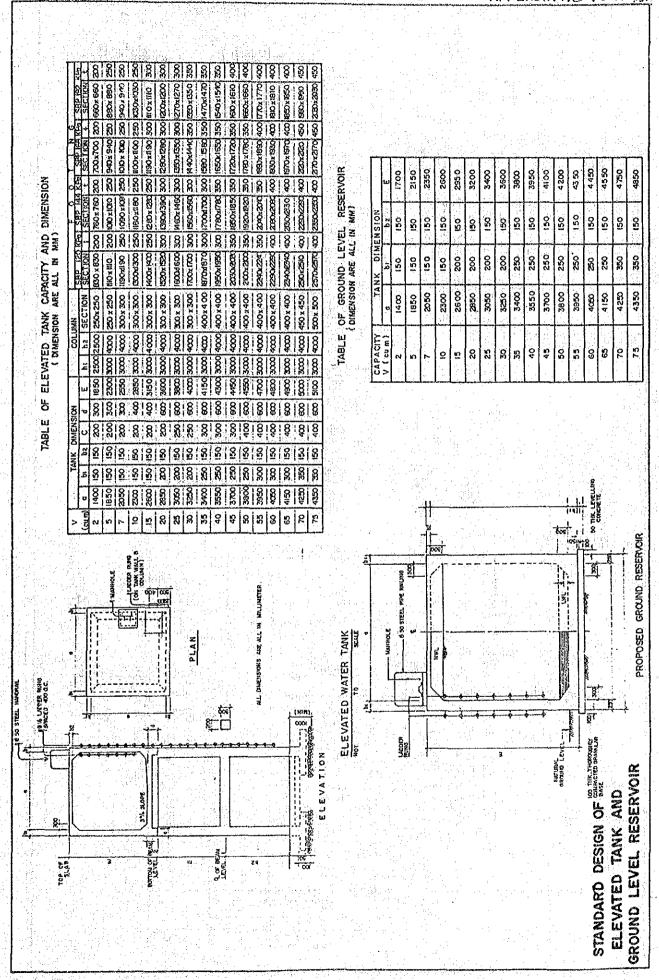


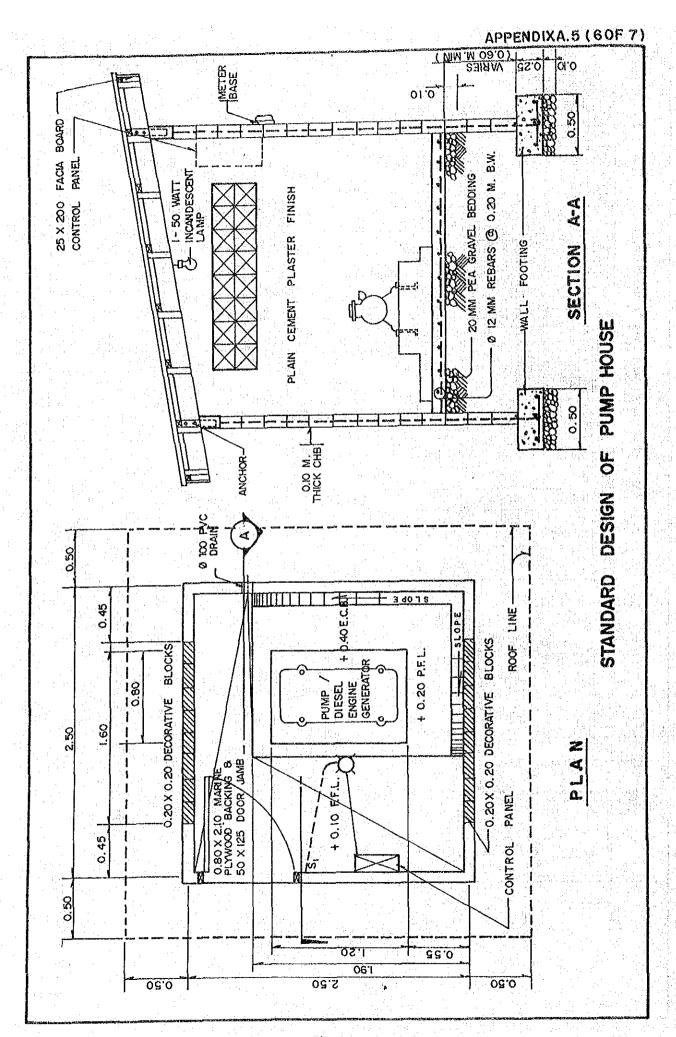
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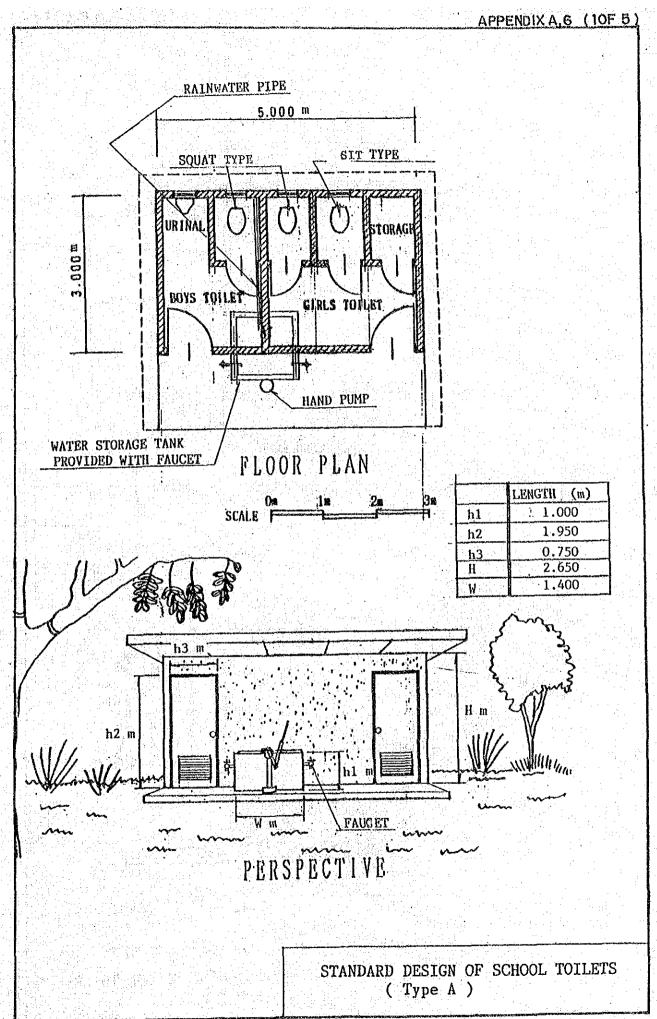


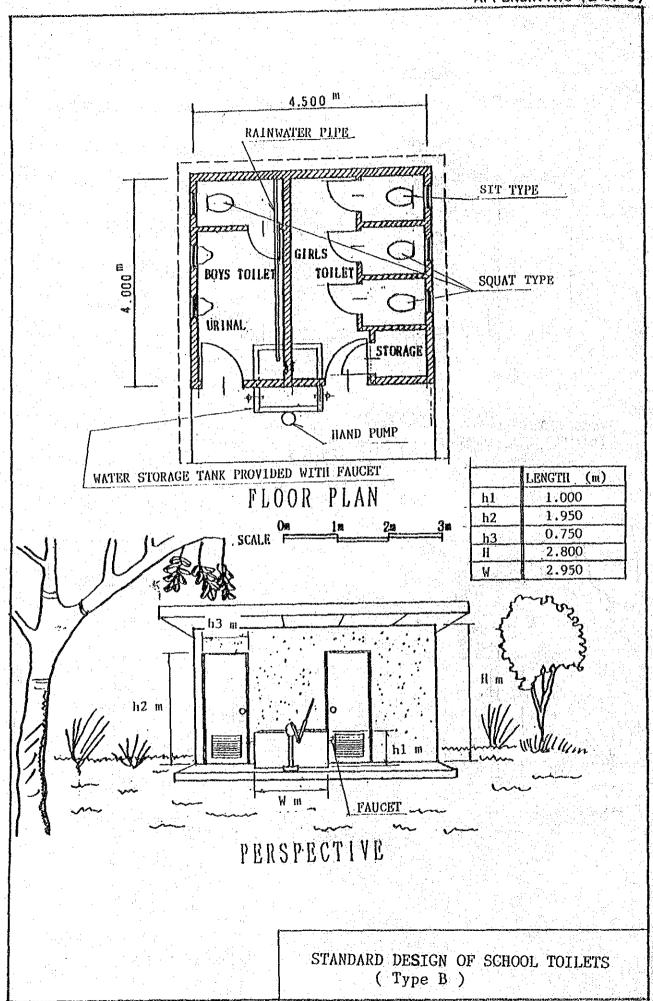


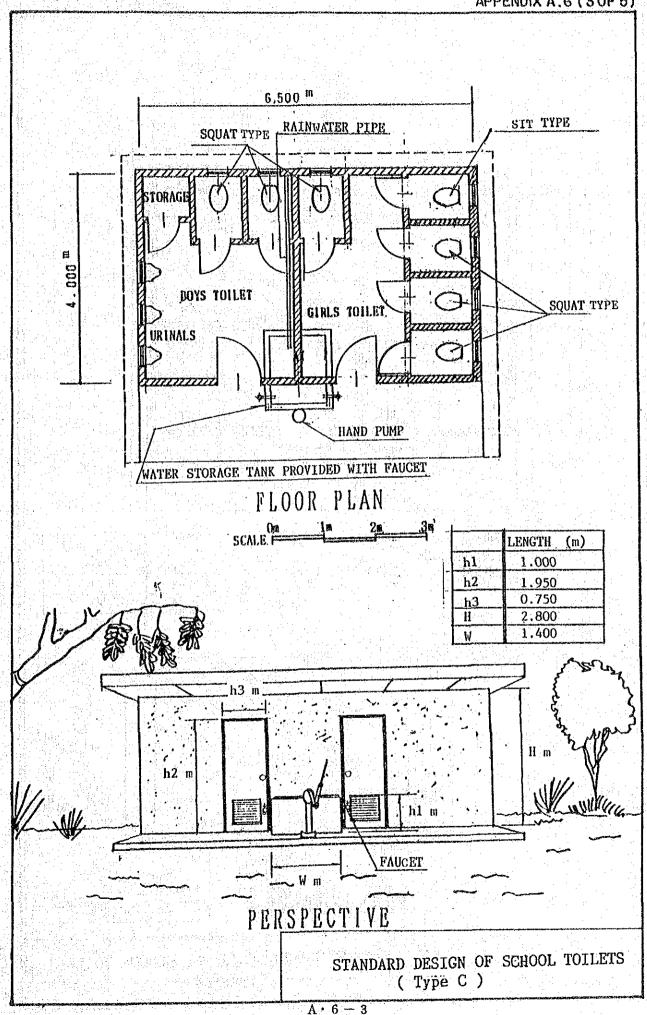


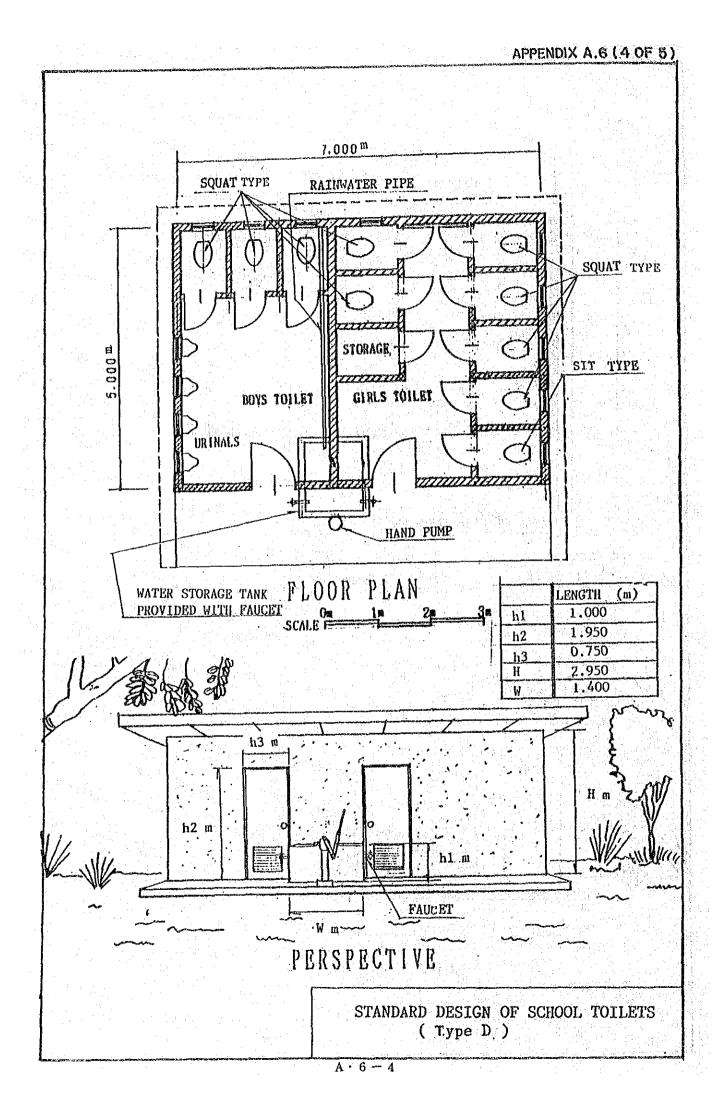


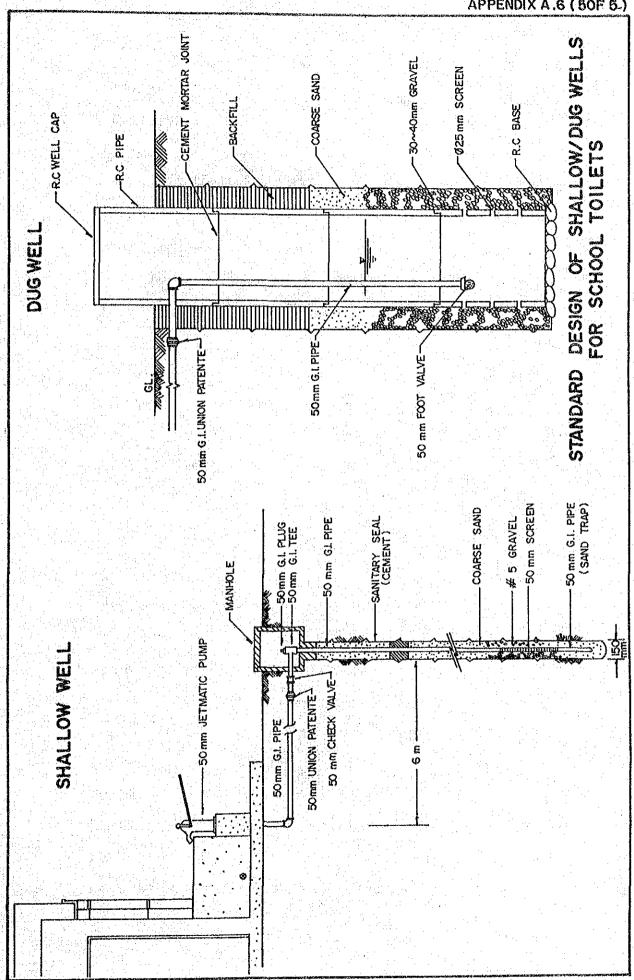












DATAILS OF COST ESTIMATES

1. Water works

A. Level I Facilities

Description:

No. (of Bara	ngay		78
No. 1	of Hous	ehold	****	4,144
Popu.	lation	p		24.868

Operation and Maintenance Costs (hand pump facilities)

Item .		Calculation	Assount
Depreciation Transportation	P 420.00/yr x 78 2 days x P 1,200	units .00 x .5/yr x 78	P 32,760.00 93,600.00
Potal (P 126,360.00
Cost per household =	125,360	30.49/yr.	
	4144 =	P 2.54/mo.	

B. Level II Facilities

Description:

No. Barangay ----- 15
No. of Household ----- 2,890

Population ----- 16,141

Operation and Maintenance (Submersible Pump)/Borehole Type Turbine Pump)

Iten	Calculation &	mount
Depreciation	P 65,700 x .05/yr x 15 waits P	49,275
Labor cont	8 person x 2 days x .05/yr x 89 x 15	1,068
Truck	2 days x 1200 x .05/yr x 15	1,800
Machine loss	2 days z 80 z .05/yr z 15	120
Electricity	9 hrs x 2.22/kv x 2.1 x 365 x 15	231,790
Water line repair	1050/km -yr x 3.15 km x 15 units	49,612
fotal		333,665
Cost per household	= 333,685 = 124.04/7e	
	2660 = P 10 34/an	

2. Toilet Facilities

Description:

No. of school

159

No. of toilet units

217

Operation and Maintenance Cost

Iten	And the second second	Calculatio) <u>n</u>	Jenore
	3 - 1 - 1 - 1 - 1 - 1 - 1			
Sludge removal				in the first of the control of the c
(Manual)	2 peri	ions x 2/yr x 89 x 217	grift (P 97,252

3. Monitoring and Training Activities

Description:

No. of Sites

96

No. of Municipality

62

Operation and Haintenance

M

Iten	Calculation	Asount
fuel cost Hisc. supply	12 x (15 days/mo. x 12 mos. x 10 liters/day x 7.08) P 500/mo. x 12 mos.	P 152,496 6,000
	for DOH	P 158,496/yr

DEWE

lten	Calculation &wount
fuel cost	12 x (15 days/mo. x 12 mos. x 10 liters/day x 7.06) P 152,496
filec. supply	P 500/mo. x 12 mos. 6,000

For DPWB P 158,496/yr.

Note: Excludes salary and fixed allowance vehicles are provided by the project.

COMPOSITION OF THE STUDY TEAM

1. Team Leader

Hiroshi IGARASHI Chief of First Design Section, Construction and Engineering Department, Sapporo City Waterworks Bureau

2. Project Coordinator

Takeshi IMAZU
Director, First Basic Design Study Division, Grant Aid
Planning & Survey Department, Japan International Cooperation Agency

3. Water Supply Planning

Masatoshi MOMOSE Nippon Jogesuido Sekkei Co., Ltd.

4. Water Supply and Sanitation Facilities

Masuomi HIROYAMA Nippon Jogesuido Sekkei Co., Ltd.

5. Well Engineering

Mitsuo TSUTSUMI Nippon Jogesuido Sekkei Co., Ltd.

6. Hydrogeology

Seimi MOCHIZUKI Wacos Japan Co., Ltd.

B. 2-1 議事録 (現地調査時点)

of discussion MINUTES

BASIC DESIGN STUDY DN THE RURAL ENVIRONMENTAL SANITATION PROJECT, PHASE II THE REPUBLIC OF THE PHILIPPINES

In response to the request made by the Government of the Republic of the Philippines for the Rural Environmental Sanitation Project, Phase II (hereinafter referred to as "the Project"), the Bovernment of Japan has sent, through the Japan International Cooperation Agency (hereinafter referred to as "JICA"), a team headed by Mr. Hiroshi Igarashi, Chief of First Design Section, Construction and Engineering Department, Sapporo City Waterworks to conduct a basic design study from September 20 to November 3, 1989. The team has carried out a field survey, held a series of discussions and exchanged views with the authorities concerned from the Government of the Republic of the Philippines.

As a result of the study and discussions, both parties have agreed to recommend to their respective Governments that the major points of understanding reached between them as indicated in the Attachment, should be examined towards the realization of the Project.

Manila, Philippines, October 2, 1989

For JICA:

HIROSHI IGARASHI Team Leader

Basic Design Study Team

For the Government of the Philippines:

TEODORO T. ENCARNACION

Undersecretary

DF WH

MANUEL G. ROXAS, M.D., MPH

Undersecretary

DOH

RICARDO T. QUEBRAL Administrator

LIVUA

ATTACHMENT .

- 1. This Project was conceived in line with one of the development thrusts of the Government of the Fhilippines, which is the uplifting of living standards of the rural people. It is a common knowledge that with sufficient and safe water supply coupled with the much needed sanitary facilities and health education, an improved health standard of the population can be achieved.
- The proposed sites of the Project are located in the provinces of Ilocos Norte, Ilocos Sur, La Union and Fangasinan of Luzon Island, and Aklan, Capiz, Antique and Iloilo of Panay Island (hereinafter referred to as "the Project Sites").
- 3. Items requested by the Government of the Philippines for the Project covering eight (8) provinces are listed hereunder. The Japanese Study Team will prepare a Draft Final Report through the Technical Study in Japan based on the findings and discussions with people concerned stemming from the field work in the Philippines.
 - a. Facilities

Level I Water supply systems - 80 Level II Water supply systems - 16 Toilet facilities for elementary schools - 161

b. Equipment and Service Vehicles

For DPWH

2 units of truck mounted rotary drilling rig

11 units of pick-up truck

11 units of pumping test equipment

11 units of water quality analysis equipment

11 units of water level indicator

For DOH

2 units of vacuum truck 8 units of pick-up cruck

The Draft Final Report within the scope of Japanese economic cooperation program in grant form will be presented to the Government of the Philippines.

16

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- 4. The Government of the Philippines has understood Japan's Grant Aid system as explained by the Team which includes a principle on the use of a Japanese Consultancy Firm and a Japanese General Contractor for the implementation of the Project.
- 5. The Government of the Philippines will take the following necessary measures on condition that the grant assistance by the Government of Japan is extended to the Project:
 - a. To secure the right-of-way for pipeline construction, land area for the facilities and prospective water sources.
 - b. To provide necessary data and information for basic design study.
 - c. To ensure prompt unloading, tax exemption, customs clearance at ports of disembarkation in the Philippines, and prompt internal transportation therein of the products purchased under the grant.
 - d. To maintain and use properly and effectively the facilities constructed and equipment purchased under the grant.
 - To undertake incidental civil works including electric supply facilities, if nedeed.
 - f. To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the Philippines with respect to the supply of the products and services under the verified contracts.
 - g. To accord any Japanese national whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the Philippines and stay therein for the performance of their work.

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B. 2-2 議事録(ドラフト・ファイナル・レポート現地説明時点)

MINUTES OF DISCUSSIONS

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THE DRAFT FINAL REPORT OF THE BASIC DESIGN STUDY

ON

THE RURAL ENVIRONMENTAL SANITATION PROJECT, PHASE IT

IN

THE REPUBLIC OF THE PHILIPPINES

In response to the request made by the Government of the Philippines (GDP), the Government of Japan decided to conduct a basic design study on the Rural Environmental Sanitation Project, Phase II (hereinafter referred to as the "Project") and entrusted the study to the Japan International Cooperation Agency (JICA). JICA sent to the Republic of the Philippines a Study Team from September 20 to November 3, 1989.

As a result of the study, JICA prepared a draft report and dispatched a Mission headed by Mr. Hiroshi Igarashi, Chief of First Design Section, Construction and Engineering Department, Sapporo City Waterworks Bureau, to explain and discuss the contents of the report from January 25 to 31, 1990.

The Team had a series of discussions on the Project with the officials concerned of the GOP. After having clarified its contents, both parties agreed to recommend to their respective Governments that the major points of understanding reached between them, as indicated in the attached sheet, should be examined towards the realization of the Project.

Manila, Philippines, January 30, 1990.

For JICA:

HIROSHI IGARASHI

711(00)(1 10H(H0))11

Team Leader Basic Design Study Team For GOP:

FLORENCID F. PADERNAL

Project Director, Project Management
Office for Rural Water Supply
Department of Public Works and Highways

Lina 6. Manapal LINA E. MANAPSAL

Director III, Environmental Health Services

Department of Health

VITALIANO J. DE LA VEGA

Deputy Administrator, Engineering Services Local Water Utilities Administration

ATTACHMENT

- 1. The Philippine side agreed in principle to the basic design proposed in the Draft Final Report with minor but appropriate alteration to be incorporated in the Final Report. The GOP and the Study Team re-emphasized the importance of considering under the RESP, Phase II, appropriate lessons learned from the Pilot Rural Environmental Sanitation Project.
- 2. The Philippine side understood the system of Japanese Grant Aid Program and confirmed the arrangements to be provided by the Philippine side for the realization of the Project as agreed upon in the "Minutes of Discussions" dated October 2, 1989.
- The Final Report on the Project will be submitted to the GOF.

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Field Work Schedule in the Philippines (45 Days)

Date		Schedule/Activities				
		A		P.M.		
Sep. 20 (Wed)		1:30 4:00	Arrive in MNL (PR 431) Courtesy call to JICA & Embassy of Japan			
21 (Thu)	9:00 11:00	Courtesy call to NEDA Courtesy call to LWUA	2:00 3:00	Courtesy call to DOH Joint meeting w/DPWH, LWUA & DOH		
22 (Fr1)	8:00 to 18:00	Observation trip to Phase I sites in Cavite				
23 (Sat)	6:00	MNL to Ilocos Sur (Field survey in Region I)	2:00 2:30	Courtesy call to Provincial Office (Governor of Ilocos Sur) Site inspection (proposed sites in Ilocos Sur)		
24 (Sun)	8:00	Site inspection Meeting w/local officials (Ilocos Sur lst & 2nd DEOs)	1:00 to 7:00	Ilocos Sur to MNL		
25 (Mon)	8:30	Courtesy call to DPWH central office	1:00	Inner-meeting Preparation of field work		
26 (Tue)	10:30 11:30	MNL to Roxas City (Capiz) Meeting w/DEO of Capiz	1:30 2:00	Courtesy call to Provincial Office (Governor of CApiz) Site inspection (proposed sites in Capiz)		
27 (Wed)	8:00 to 18:00	Inspection (several municipalities in Capiz)				
28 (Thu)		Inner-meeting & data collection	12:05 2:00	Roxas City to MNL Preparation of question- naire for field work		
29 (Fri)	8:00 to 18:00	Preparation of Draft Minutes Preparatory work for field survey Data collection in MNL				
30 (Sat)	8:00 to 17:00	Data collection & preliminary analysis of collected data				
0ct. 1 (Sun)		Inner-meeting Preparatory work for field survey				

Field Work Schedule in the Philippines (45 Days)

Date	Schedule/Activities			
Date	A.M.		P.M.	
Oct. 2 (Mon)	Data collection & preparatory work for field survey	2:00	Exchange of Minutes at DPWH central office	
3 (Tue)	Data analysis	1:20 3:00	Party A: MNL to Kalibo Party B: MNL to Iloilo Meeting w/respective DEOs (Kalibo & Iloilo)	
4 (Wed)	Field work Level I & II systems and	School	Tollets)	
5 (Thu) 6	Party A: Aklan Province Party B: Iloilo Province -do-	(1st &	2nd DEO areas)	
(Fri) 7	-do-			
(Sat) 8 (Sun)	Party A: Kalibo to Roxas City		Summarization of collected data	
9 (Mon)	and PDO		vince, meeting w/DEO, DOH ique), meeting w/DEO, DOH	
10 (Tue)	Field work (Level I & II	systems	and School Toilets)	
11 (Wed)	Party A: Capiz Province Party B: Antique Province			
12 (Thu)	-do-1			
13 (Fri)	Supplementary data collection in Capiz and Iloilo, respectively	12:05 3:10	Party A: Roxas City to MNL Party B: Iloilo City to MNL	
14 (Sat)	Inner-meeting Summarization of collected data		Preparatory work for field survey	
15 (Sun)	Preparatory work for field survey	ing the state of t		
16 6:00 (Mon)	Party A: MNL to Pangasinan Province Party B: MNL to Ilocos Norte Province		Meeting w/DEO, DOH & PDO in Lacag & Dagupan	

Field Work Schedule in the Philippines (45 Days)

Date	Schedule/Activities					
	A.M.	P.M.				
Oct. 17 (Tue)		systems and School Toilets) nce (1st and 2nd DEO areas) vince				
18 (Wed)	-do-					
19 (Thu)	~do∸					
20 (Fri)	Party A: Dagupan to San Fernando Party B: Laoag to Vigan	Meeting w/DEO, DOH & PDO in San Fernando & Vigan				
21 (Sat)	Field work (Level I & II	systems and School Toilets)				
22 (Sun)	Party A: La Union Party B: Ilocos Sur (lst	& 2nd DEO areas)				
23 (Mon)	-do-					
24 (Tue)	Supplementary data collection in La Union & Ilocos Sur	Party A: San Fernando to MNL Party B: Vigan to MNL				
25 (Wed)	Inner-meeting Summarization of data (qu	estionnaire)				
26 (Thu)	Supplementary data collection Summarization of data and	tion in MNL analysis				
27 (Fri)	-do-					
28 (Sat)	-do-					
29 (Sun)	-do-					
30 (Mon)						
31 (Tue)	-do-					
Nov. 1 (Wed)						
2 8 (Thu)	3:30 Courtesy call to JICA MNI and Embassy of Japan	Final meeting w/PMO-DPW Finalization of field activities				
3 (Fri)	1:05 MNL to TYO (NW 004)					
	$\mathbf{B} \cdot 3 - 3$					

Central/Local Office	Agency	Hare	Position
Central Office	DPWH	Teodoro T. Encarnacion Edmundo V. Mir Dr. Florencio Padernal Danilo J. Castillon Alexander C. Armovit Emil Sadmin Janet Agustia	Undersecretary Undersecretary Proj. Hanager V Proj. Hanager III Ads. & Finance Sr. C. R. Sr. C. R.
		Br. Jesus Sunga	Director of Infrastructure
	DOH	Manuel Roxas M.D. Dr. Lina B. Manapsal Mr. Delfin A. Gonzales	! Undersecretary ! Chief, Bav. Health Service ! Head,Samitary Engr./Env.Health Service
	IANA	Ricardo T. Quebral Alfredo B. Espino	Administrator Hanager, PMO
Panay (Region VI) Ablan	DP#H/D20	Engr. Modesto D. Intoy Engr. Ermelo H. Macabilig Engr. Criselda R. Roldan	District Angineer Supv'g. CE II
	OHF/HOD	Dr. Pedro I. Gaton Engr. Lucio A. Santa Maria	Asst. PHO,/PHO Sanitary Engineer
	LOCAL GOY.	Ns. Coraxon L. Cabagaot Engr. Lorna M. Tabuena Mr. Percival J. Sevilla Mr. Geraldo Cordova Mr. Fabio M. Mayor MS. Joselyn Pamatian Mr. Ramon Legaspi, Jr. Atty. Sergio Rigodon Dr. Edilberto L. Venus, M.D.	Governor of Aklan Proj. Development Officer Asst. Statistician Vice Mayor Byg. Gov't Official Acctg. Adm. Officer Hayor, Makato, Aklan Hayor, Banga, Aklan Hayor, New Washington, Aklan
Capis	DPNH/ DBO	Ingr. Leovigildo Goco Bngr. T. Vista Bngr. Linda Cullo	District Engineer Supervising CE I C.E. (Representative)
	DOH/PHO	Dr. Milagros Balgos Ingr. Victor Acepcion	PHO field San. Engr. (Rep.)
	LOCAL GOV.	Gov. Jose R. Borda Porfirio P. Perez Gaudencio Reges	Provincial Governor Pilar Municipal Mayor Sigma Municipal Mayor
Iloilo, District 1	DKO DBAH/	Alberto G. Castaneda Henry S. Lasaleta Emilio H. Lozada Romeo H. Espinoza Pilomena Y. Tupaz Vicente M. Tingson Salvador Alegario Rene H. Mondejar	Regional Director Sr. Nech. Engineer Dist. Well Drilling Supvs. Iloilo 1st Gen. Const. Foreman, Iloilo 1st District Engineer, Iloilo 1st Supervising C.E. III Dist. Supervisor, Dist. of Haasin Mayor, Maasin, Iloilo

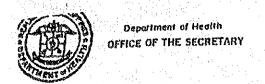
Iloilo, District 2	DEO	Roberto D. Doromal Alfredo S. Abutal	District Engineer Dist. Hell Drilling Supva. Iloilo 2nd	
	DON/PHO	Carlos Ilado	Ingineer	
	local gov.	Ramanuel H. Mondejar Barbara D. Deorango Venturo L. Caplana, Jr. Primitivo A. Hervas	Mayor, Maasin, Iloilo Barangay Captain, Lublub Manicipal Mayor, Ducass, Iloilo Mun. Planning & Dev t Coordinator	
Antique	DP##	Rufino V. Osunero Feliciano H. Pines Helchor I. Lariza Gregorio H. Valdellon, Jr.	District Engineer Sr. Civil Engineer Civil Engineering Aids Dist. Well Drilling Supervisor	
	DOH/PRO	Dr. Justo H. Rios, Jr. Hr. Tommy S. Petinglay Hiss Teresita D. Hangilayo	Asst. PHO - Officer-In-Charge RSI-IPHO SSI-IPHO	
en grant og en et Bogger og fillere GBM og en en en en et	LOCAL GOV.	Virgilio 7. Rendon	Mayor, Asimi-Y Municipality	
Luzon (Region 1) 11ocos Norte	DPWB	Rafael Pernaudez	District fagineer	
	DO#/P#0	Dr. Venancio Pastor	Asst. PHO	
	LOCAL GOV.	Joseph B. Arzadon Rodolfo L. Garaos	Mayor, Rueva Bra Hayor, Burgos	
Ilocos Sur (Dist. 1)	DAM	Bulogio Javier Lolito H. Cabansag	District Engineer Supv. C.B. II	
	DOH/PHO			
	LOCAL GOV.	Rosulo T. Sanidad	Acting Mayor., Sto. Domingo	

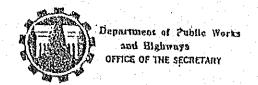
Ilocos Sur (Dist. 2)	DPWH	Rogello Fernando : Haurito A. Bautista :	District Engineer Supv.C.E. I	
	DOH/PHO			
	LOCAL GOV.	Atty. Bduardo Na. Guivnalda Bdgardo C. Zaragoza	Hayor, Candon Hayor, Barvacan	
		Alexander G. Bistoyelt	Hayor, Suyo	
La Union	DPWP :	Nomesto Ubiano	District Engineer	
		Rugr. Pablo Salanga Rugr. Alfredo Doctolero	Supvg. C.R. II Supvg. C.R. II (DEO Representative)	
	DOH/PHO	Engr. Rolando M. Lecitona	San. Bagr., IPHO, La Union	
		Engr. Conrado Ordono	Sr. San. Bogr., RHO, La Union	
	LOCAL GOV.	Hon. Joaquin Ortega	Governor, La Union	
		Hon. Adolfo Estonactoc Hon. Atty. Bapoleon Boado	Mayor, Sto. Tomas, La Union Mayor, San Juan	
		Hon. Corpuz Hon. George Pinson	Mayor, Aringan Mayor, Bangar	
		Hon. Jose Radusi	Hayor, Sudipen	
		Hr. Rodrigo A. Tavora Hon. Rufino Fontanilla	PPDS - La Union Mayor, Bacnotan	
Pangasipan (Dist. 1)	DEWH	Gil Velencerina	District Engineer	
rangazinan 1918t. 11	i Mari	Manuel S. Rosario, Jr.	Ass. District Engineer	
		Mienrado V. Inacay	Civil Bogineer	1
	DOH/PHO			
				! !
	LOCAL GOV.			
				1
				1 1 1
Pangasinan (Dist. 2)	CPWH	Orlando M. Banaag Jaime R. De Guzman	District Engineer Supervising C.E. II	
		Pernand Gonzales	Asst. Chief Planning Supv. C.K. I	1 3
		Renato Idos Bienvenido M. Martin	C.B., Const. Section Civil Ragineer	ř 1
	ORA/HOO :	Dr. Ciriaco Az. Carros	Provincial Health Officer, IPHO	
	i Warray	Engr. Danilo S. dela Cruz	Sanitary Bogr., IPKO	
	LOCAL GOV.		Provincial Plan. Dev't Coordinator	
		Mr. Pidel Bautista	Training Officer of Barangay Naterwork Program	
		Hayor Benigno H. Gubatan	Municipal Mayor, Mangaldan, Pangasinan	1
		Hr. Teodoro H. Cabanayan Hr. Conrado S. Malicdem	Supvg. Hell & Srping Dev't, PRO Asst. Well & Srping Dev't, PRO	1
ing to the state of 12 to 5. Second with the Court parties of	i	Hr. Armii O. Nieto Hr. Ruben Aguino	SPDA, PDS DPA, PDS	1. 1

DATA LIST

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- 3. Groundwater Evaluation, NWRC
- 4. Geological Map, 1:50,000, BMGS
- 5. Groundwater Availability Map, 1:250,000 NWRC
- 6. Well Location Map, 1:250,000 NWRC
- 7. Potential Area for Groundwater Development, 1:250,000, NWRC
- 8. Geologic Map, 1:250,000, NWRC
- 9. Water Level Contour Map, 1:250,000 NWRC
- 10. Iso-Resistivity Map, 20m Depth, NWRC
- 11. Iso-Resistivity Map, 60m Depth, NWRC
- 12. Iso-Resistivity Map, 100m Depth, NWRC
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- 29. Rural Environmental Sanitation Project Phase II, DFWH/DOH, July 1989
- 30. Publication of the Associated Construction Equipment Lessors, Inc., 1987
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- 32. Well Logs, NURB and NIA
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APPENDIX B .6 (10F1)

JOINT DEPARTMENT ORDER CREATING THE PROJECT COORDINATING COMMITTEE

18 September 1989

OTHE DEPARTMENT ORDER)		
10.		
Series of 1989)	SUBJECT:	CREATION OF RURAL ENVIRONMENTAL
		SANITATION PROJECT COORDINATING
		COMMITTEE FOR THE IMPLEMENTATION
		AN MINT - BIN 19 . THEFT AND AND MINT . T

OF THE RURAL ENVIRONMENTAL SANITATION PROJECT, PHASE II

To ensure effective and efficient implementation of the Rural Environmental Sanitation Project, Phase II (RESP II) financed under the grant-aid program of Japan International Cooperation Agency (JICA), a Rural Environmental Sanitation Project Coordinating Committee is hereby created:

The Committee shall be responsible for the following:

- a) Have over-all coordination with the JICA's representatives and consultants towards the implementation of the projects.
- b) Formulate and exercise over-all direction in the planning and execution of the projects and the transfer of responsibilities to the beneficiaries upon completion of the same.
- c) Perform other related activities as may be needed.

The Committee shall have the following composition:

DPWH Undersecretary - Chairman

DOH Undersecretary - Co-chairman

LWUA Deputy Administrator - Member

PMO-RWS, Project Director - Member

DOH, Representative - Member

DLG Representative - Member

(By invitation)

ALFREDO R.A. BENGZON Secretary FIORELLO R. ESTUAR Secretary

