2.6.2 Data Management

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2.6.2.1 OUESTIONNAIRE FORMS

STRUCTURE OF QUESTIONNAIRE

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Grouping of Questionnaire	Nat.	Reg.	Prov.	Mun.	Bar.	Sys/Fac.	Ind.
	R	R	L P	<u> </u>	В	<u> </u>	I
1 SOCIO ECONOMIC DATA							
1.1 Administrative Composition				M 1.1	B 1.1	<u> </u>	
1.2 Past Population				M 1.2.1	B 1.2.1		
				M 1.2.2	B 1.2.2	,	
1.3 Projected Population				M 1.3	B 1.3		
1.4 Household Number				M 1.4	B 1.4		
1.5 Services				M 1.5	B 1.5		
1.6 Occupation Category				M 1.6	B 1.6		
1.7 Family Income, Education and Literacy				M 1.7	B 1.7		
2 LAND USE DATA							
2.1 Existing Land Use				M 2.1	B 2.1		
2.2 Future Land Use				M 2.2	B 2.2		THE STATE OF THE STATE OF
3 HEALTH DATA							
3.1 Morbidity and Mortality				M 3.1	В 3.1		
3.2 Facility and Practitioner				M 3.2	B 3.2		
4 WATER SOURCE DATA							
4.1 General Information				M 4.1	B 4.1		
4.2 Water Source				M 4.2	B 4.2		
5 WATER SUPPLY SYSTEMS			Arrest.	9997	875	17	
5.1 Level II Systems				[S 5.1.1	
						\$ 5.1.2	
5.2 Level III Systems					L	S 5.2.1	
						S 5.2.2	
						\$ 5.2.3	
5.3 Level I Facilities					<u> </u>	F 5.3.1	
						F 5.3.2	
		<u> </u>				F 5.3.3	
6 ENVIRONMENTAL SANITATION							
6.1 Private Toilet			L	M 6.1	B 6.1		
6.2 School/Public Toilet				M 6.2	B 6.2	<u></u>	
6.3 Drainage Facility				M 6.3	B 6.3		
6.4 Solid Waste Collection and Disposal				M 6.4	B 6.4		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7 INVESTMENT DATA							
7.1 Previous annual Investment			27.1				
7.2 Planned Annual Investment			P-7.2				

Note: Barangay level questionnaire forms are for reference purpose only

1. SOCIO-ECONOMIC DATA

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Socio	Content: Socio-economy - Administrative Composition	omposition		Date:		Page:		Filename: socio.xls	.xis	
Data Collection	Data Collection Level: Municipal			Prov. No.:				Sheetname: (M)	Sheetname: (M) Administrative Composition	Composition
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				STATUS	TUS			NO.	NO. OF BARANGAYS	'YS
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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					PAST PO	PAST POPULATION	(NSO)			
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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					NUMBER	NUMBER OF HOUSEHOLDS	EHOLDS			
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Code	ייינווייניים	Urban	Rural	Total	Urban	Rural	Total	Uroan	Rural	Total
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Region Number:	ζť:			Prov. Name					Form Number: M 1.5	er: M 1.5	
						SERVICES (As of month-year)	of month-y	car)			
NEDA Geographic	Municipality	Ē	Elementary School	1001		High School		College	Hospital	Market	Bank
Code		Public	Private	Total	Public	Private	Total				
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						Agricultural, Animal	Production & related workers,	Occupation not
NEDA Geographic Code	Municipality	Professional, Technical & Related Workers	Administrative, Executive and Managerial	Sales Worker	Service Worker	Husbandry & Forestry workers,	Transport Equipment	adequately defined or
						Fisherman and Hunters	Laborers	The state of the s
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Geographic Code	Municipality	Under P14,999	P15,000 to P29,999	000,069 0; P39,999	P40,000 to P59,999	PGO,000 and over	Prc- school	Elem.	Secondary (High School)	Tertiary (College & Post Graduate)	Literate	Illiterate
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Region Number	ber:	Prov. Name:			Mun. Name:			Form Number:	Form Number: B 1.1	
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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					PAST PC	PAST POPULATION (NSO)	(OSN)			
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Region Number	رد. دد.	Prov. Name:			Mun. Name:			Form Number: B 1.4	r: B 1.4	
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Data Collect	1	Prov. No.			Mun. No.				Sheetname: (B) Services	
Region Number		Prov. Name:			Mun. Name:				Form Number: B 1.5	cr: B 1.5	
					SERVICES (As of month-year)	VICES (As	of month-y				
NEDA Geographic	Barangay	eii	Elemenury School	- '		High School		College	Hospital	Market	Bank
Code		Public	Private	Total	Public	Private	Total				
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Region Number	u	Prov. Name:		Mun. Name:		1	Form Number: B 1.6	1.6
				PERSONS BY	PERSONS BY OCCUPATION CATEGORY			
NEDA Geographic Code	Barangay	Professional, Technical & Related	Administrative, Executive and Managerial	Sales Worker	Service Worker	Agricultural, Animal Husbandry & Forestry workers,	Production & related workers, Transport Equipment	Occupation not adequately defined or
		workers				Fisherman and Hunters	Operations and Laborers	reported
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Content: Soci	Content: Socio-economy - Family Income, Education and L	come, Educ	ation and L	iteracy	Date.			rake.			,	- 4 DAmention
Data Collectic	Data Collection Level: Barangay		Prov. No. :			Mun. No. :				Sheetname: (B	Sheetname: (B) Family income and Education	וועם בעותכמוסנו
Region Number	į.		Prov. Name:			Mun. Name:				Form Number: B 1.7	B1.7	
g g		Ęź	Number of Family by Income Class (Annual) (1990 Census)	nily by Income (1990 Census)	: Class (Ann)	(lau		ation by High	Population by Highest Level of Education	ucation	Literacy of Population 10 Years and Over (1989 Survey)	Population and Over (urvey)
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2. LAND USE DATA

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Data Collectic		Prov. No. :				Sheetname: (M) ExistingLandUse	xistingLandUse
Region Number	Š.	Prov. Name:				Form Number: M 2.1	2.1
			EXISTING	EXISTING LAND USE (IN HECTARES)		AR:	
NEDA Geographic Code	Municipality	Forest Land	Grassland	Built-up	Agricultural	Mangrove, Fishponds, In- land Water	Openlands
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Content: Lan	Content: Land Use - Future Land Use	Date:		Page:		Filename: landuse	sh
Data Collection		Prov. No. :				Shectname: (M) F	utureLandUse
Region Number:	čr:	Prov. Name:				Form Number: M 2.2	2.2
			FUTURE I	FUTURE LAND USE (IN HECTARES)	ECTARES) YEA	V.R.:	
NEDA Geographic Code	Municipality	Forest Land	Grassland	Built-up	Agricultural	Mangrove, Fishponds, Inland Water Areas	Openlands
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rduse.xls	Sheetname: (B) ExistingLandUse	r: B 2.1		In-Openiands	#										-
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Page:	Mun. No. :	Mun. Name:	EXISTING LAND USE (IN HECTARES)	Built-up	#										
			EXISTING	Grassland	#										
Date:	Prov. No. :	Prov. Name:		Forest Land	7#										
Content: Land Use - Existing Land Use				Barangay											
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Data Collection		Prov. No.:		Mun. No. :		Shectname: (B) FutureLandUse	nureLandUsc
Region Number:		Prov. Name:		Mun. Name:		Form Nuraber: B	2.2
			FUTURE	FUTURE LAND USE (IN HECTARES)	ECTARES) YE	YEAR:	
NEDA Geographic	Barangay	Forest Land	Grassland	Built-up	Agricultural	Mangrove, Fishponds, In- land Water	Openlands
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3. HEALTH DATA

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Content: Health - Morbidity and	Mortality	i	Date:		Page Number:	
Data Collection Level: Municipal		Region Number:		Filename: health	r xis	
Prov. Number:		Mun. Number:		Sheetname: (M) Morbidity and	Mortality
Prov. Name:		Mun. Name:		Form Number:		
	Disease	Name of Diseases	Water Related		Number of Case	
Cause Group Diseases of	No.	(Group)	Diseases	Morbidity	Mortality	Infant Mortality
Infective	A01	2-4/ Typhoid Parathyphoid	X			
and	A.02	5-7/ Dysentary	X	<u> </u>		
Parasitic	A.03	8-10/ Intestinal Parasites	X			
(001-136)	A.04	11-13/ Diarrhea	X			
1	A.05	14-16/ Tuberculosis	ļ			
l	A.06	17-19/ Conjunctivities	<u> </u>			
	A.07	20-22/ Whoeping Cough	ļ			
	A.08	23-25/ Throat Ear/Nose		ļ		
	A.09	26-28/ Tetanus	ļ			
	A10	29-31/ Septicemia				
	All	32-34/ Cholera	X			
* .	A.12	35-37/ Varicella, Chickenpox	 			
	A.13	38-40' Measles	x	 		
	A14	41-43/ Dengue Fever	x x	 		
	A.15 A.16	44-46/ Viral Hepatitis 47-49/ Malaria	$\frac{1-\hat{x}}{\hat{x}}$	 		
	A.17	50-52/ Schistosomiasis	$\frac{\lambda}{x}$	 		
	A.18	53-55/ Filariasis	X	}		
	A.19	56-58/ Venerial Diseases	† -:	 		
	A.20	59-61/ Other Bacter / Viral Dis.	···	1		
Neoplisms	B.01	62-64/ Malignant Neoplasms	1]		
(140-239)	B.02	65-67/ Leakernia	†			
Encocrine, Nutritional	C.01	68-70/ Diabetes Melitus	 			<u> </u>
& Metabolic	C.02	71-73/ Nutritional Deficiencies	1	1		
(250-279)	C.03	74-76/ Endocrine Disorder	1	 		
Blood & Blood	D.01	77-79/ Anemias	1	1		
Forming Organs (280-289)				1		
Mental Disorder (290-319)	E.01		1			
Nervous System and	F.01	80-82/ Meningitis	1	1		
Sense Organs (320-389)	F.02	83-85/ Nervous System			·	
Circulatory	G.01	86-89/ Heart Diseases				
Systems (390-459)	G.02	89-91/ Vascular Diseases				
	H.01	92-94/ Bronchitis	ļ	1		
Respiratory	H.02	95-97/ Preumonia				·
Systems	H03	98-100/ Influenza		1		
(460-519)	H04	101-103/ Obstructive Pulmonary			<u> </u>	
	H.05	104-106/ ARI	1	l		
	LOI	107-109/ Appendicitis	I	ļ		
Digestive System	102	110-112/ Gastroent. Colins	L	1		
(520-579)	LO3	113-115' Chronic Liver Disease		<u> </u>		
	LO4	116-118/ Other Diges. Diseases	 			
Genito-Uninary	1.01	119-121/ Kidney/ Nephritis	<u> </u>	.		
System (580-629)	J.02	122-124/ Urinary Infections	ļ			
Complication of Pregnancy & the Puerperium (630-676)	K01	125-127/ Prematurity			*	
	7.00	128 120/ SIG TS	X	·	·	
Skin & Subrutaneous	1.01	128-130/ Skin Diseases		·		
Tissuc (680-709)	L.02	131-133/ Scabies	 ^-	 	 	
Musculsoskeletal & Connective Tissue (710-739)	Mol	134-136/ Arthrop., Rheumatism				
Congenital Anomalies (740-	N.01	137-139/ Congenital Anomalies	 	 		·
759)			 	ļ	ļ	
number of	P.01	140-142/ Birth Trauma	 	·	<u> </u>	
Certain Causes of Prematal	P.02	143-145/ Birth Injuries & Difficult Labor	ļ. .	·	 	
Morbidity & Mortality	P.03	146-14B/ Resp. Fetur Newborn	}	 		
(160-179)	P.04	159-151/ Other Prenatal Causes	1	· 		
Symptoms & III-defined	Q.01	152-154/ Scrafty	1	 		
Condition (180-799)	Q.02	155-157/ III-Defined Condition	1	 		
Accidents, Poisoning	R01	158-160/ Burns	<u> </u>	 		
& Violence	R02	161-163/ Suffee, Foreign Body 164-166/ Other Accidents	}	ļ		
(800-999)	R 03	Trouting Calci Medicing		J		







Content: Hea	lth - Facility and Pra	ctitloner	Date:		Page No.		Filename: l	
ata Collectio	on Level: Municipal		Prov. No.:			Shtname: (M)FacilityF	
egion Numb			Prov. Nam	ie:			Form No.:	
		Num	ber of Faci	lities	Num	ber of Mo	dical Practic	ners
NEDA Geographic	Municipality	Hospital	RHU	BHS	Doctors	Nurses	Midwives	Dentists
Code		#	#	#	#	#	#	#
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ontent: Health - Morbidity and			Date:		Page Number:	
ata Collection Level: Barrangay		Region Number:		Filename: bealt		
rov. Number:	Mur. Num				Morbidity and N	dortality
rov. Name:	Mun. Nam	e: Bgv. Name:		Form Number:		,
Cause Group	D'	Name of Diseases	Water Related		Number of Cases	
Diseases of:	Disease No.	(Group)	Diseases	Morbidity	Mortality	Infant Mortality
Infective	A.01	2-1/ Typhoid Parathyphoid	X	T		
and	A.02	5-7/ Dysentary	X	T		
Parasitic	A.03	8-10/ Intestinal Parasites	x			
(001-136)	A.O.I	[1-13/ Dianhea	X	T		
(001-150)	A.05	14-16/ Tuberculosis		1		
ŀ	A.06	17-19/ Conjunctivities	x			
· • •	A.07	20-22/ Whooping Cough				
<u> </u>	A.08	23-25/ Throat Ear/Nose				
ľ	A.09	26-28/ Tetanus				
ŀ	A.10	29-31/ Septicemia		†		· · · · · · · · · · · · · · · · · · ·
<u> </u>	All	32-34/ Cholera	X	1		
ŀ	A12	35-37/ Varicella, Chickenpox	 			
ŀ	A.13	38-40' Measles				•
ŀ	A14	41-43/ Dengue Fever	x	†		
· }	A15	41-45/ Viral Hepatitis	$-\frac{\hat{x}}{\hat{x}}$	 		
}	A 16	47-49/ Malaria		 	·-·	L
ł		50-52/ Schistosomiasis		·{		
,	A17			·}		
· •	A 18	53-55/ Filariasis 56-58/ Venerial Diseases	 ^			
}	A.19			- 		
	A 20	59-61/ Other Bacter / Viral Dis.		 		
Neoplasms	B.01	62-64/ Malignant Neoplasms				
(140-239)	B.02	65-67/ Loukemia		<u> </u>		
Endocrine, Nutritional	C.01	68-70/ Diabetes Mellitus	·	ļ		
& Metabolic	C.02	71-73/ Nutritional Deficiencies		ļ <u></u>		
(250-279)	C.03	74-76/ Endocrine Disorder				
Blood & Blood	D.01	77-79/ Anemias				
Forming Organs (280-289)						
Mental Disorder (290-319)	E.OI					
Nervous System and	F.01	80-82/ Meningitis				
Sense Organs (320-389)	F.02	83-85/ Nervous System		1		
Circulatory	G.01	86-88/ Heart Diseases		1		
Systems (390-459)	G.02	89-91/ Vascular Diseases		<u> </u>		
	HO1	92-94/ Bronchitis		<u> </u>		
Respiratory	H.02	95-97/ Pneumonia	<u>., </u>			
Systems	HO3	98-100/ Influenza		<u></u>		
(460-519)	H.04	101-103/ Obstructive Pulmonary			:	
(,	H.O5	104-106/ ARI				
	LOI	107-109/ Appendicins	:		- ·	
Digestive System	102	110-112/ Gastroent, Cobias		T		
(520-579)	LO3	113-115/ Chronic Liver Disease				
	L04	116-118/ Other Diges. Diseases		1		
Genito-Urinary	1.01	119-121/ Kidney/ Nephritis				
System (580-629)	J.02	122-124/ Urinary Infections		1		
Complication of Programmy &				1		
the Puerpenium (630-676)	K.01	125-127/ Prematurity		1		
	7 01	139 130/ Clin Divers	X	1		·
Skin & Subcutaneous	L01	128-130/ Skin Diseases	$-\frac{\lambda}{x}$	 		
Tissue (680-709)	1.02	131-133/ Scabies		 		·
Musculaoskeletal & Connective	MOI	134-136' Arthrop., Rheumatism			!	
Tissue (710-739)	L	 		 	 -	
Congenital Anomalies (740-	N.01	137-139/ Congenital Anomalies				
759)		<u></u>		-		L
	P.01	140-142/ Birth Trauma		.]		
Certain Causes of Prenatal	P.02	143-145/ Birth Injuries & Difficult Labor		<u> </u>		
Morbithy & Mortality	P.03	146-148/ Resp. Fetus Newborn		1	!	
(160-119)	P.04	159-151/ Other Prenatal Causes		ļ		
Symptones & Ill-defined	Q.01	152-154/ Sendity				
Condition (180-799)	Q.02	155-157/ III-Defined Condition		.L		
				L		
	ROI	158-160/ Burns			l !	
Accidents, Poisoning & Violence	ROI RO2	158-160/ Burns [161-163/ Suffee: Foreign Body		 		





	th - Facility and Prac		Date:		Page No.	r 	Filename:	
Data Collection Level: Barangay Prov. No.:			, ,	Mun. No.		Shiname:	(B)FacilityF	
Region No. : Prov. Name:				Mun. Nar	ne:		Form No. :	B 3.2
	Num	ber of Fac	ilities	Num	ber of Me	dical Practioners		
NEDA Geographic Code	Barangay	Hospital	RHU	BHS	Doctors	Nurses	Midwives	l
		#	#	#	#	#	#	#
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Nr.	unicipal Total	1	1	T				1

4. WATER SOURCE DATA

ontent: Water Sources - General Information		Page:		Date:		Filename: h2	
Data Collection Level: Municipal		Prov. No.			Shtname: (M) General Information Form No.: M 4.1		
egion Number:		Prov. Name	; 			1 total No	. : NI 1.1
Municipal Number/Municipal Name		Shallow		,	Shallow		
Type of Source		Well	Deep Well	Spring	Well	Deep Well	Spring
1/ Total Number of Source	#_	ļ	1 1	<u>;</u>	ļ.— <u> </u>	!	
Implementation		ļ	<u> </u>	 	 		
2/ Government Agency		ļ	ļ	<u> </u>		·	
3/ Private	- *		ì 1	<u>!</u>		·	·
l'sage			ļ <u> </u>	<u> </u>	 	} !	
4/ Drinking	#-		<u></u>	<u>!</u>			
5/ Washing/Bathing	#.		<u>:</u>	<u> </u>	<u> </u>	ļ	
5/ Washing/Bathing 6/ Gardening 7/ Irrigation 8/ Industrial Water Quality	*		:	<u> </u>			
7/ Irrigation	*		<u> </u>	<u> </u>		i	
론 8/ Industrial	#	<u> </u>	<u> </u>	<u>i </u>		<u> </u>	
Water Quality			<u>L</u>	1	ļ		
9/ High Iron/Manganese Content	#	<u> </u>	<u> </u>	: 	ļ	· 	
10/ High Chloride Content	#	ļ	: 4	<u> </u>			
11/ Turbidity/Color/Smell	#		<u> </u>	<u> </u>		<u>:</u>	
Production		ļ	<u> </u>	<u> </u>	<u> </u>	1	
12/ Less/No Water in dry season	#			<u> </u>			
13/ Usable through the year	#	Ĺ	·	!		1	
Technical			 	i Parkitetatan	ingenovaries	i Anna vale a post	100 a 10 de de de de
14/ Diameter < 100 mm (4")	#			النطالة			
15/ Diameter >= 100 mm (4")	#	69	138 A	Buck	7.01.64	nestri)	114.5
g 16/ SWL < 5 m below ground	#				·	İ	
17/ SWL >= 5 m below ground	#	 					
8 18/ Specific Capacity < 3 m³/hr/m							
16/ SWL < 5 m below ground 17/ SWL >= 5 m below ground 18/ Specific Capacity < 3 m³/hr/m 19/ Specific Capacity >= 3 m²/hr/m 20/ B-Value < 1,000 s/m³	#						
20/ B-Value < 1,000 s/m ³	#				140	4.2	\$ (C) (S
21/ B-Value < 1,000 s/m³	- -	1			100	拉勒 克德	V X-16
	· "						\$ \forall T
22/ C-Value < 60,000 s ² m ⁶ (Well Loss Const.)	- -"						
23/ C-Value >= 60,000 s ² m ⁵			75 A		Marie 1994	132-122-5	\$11.00 J
Technical		SP 1				Here's	116.17
24/ T-Value < 0.001 m ² /s	-		Berger	#	11-1-1-1	a de la contraction de la cont	7757.4
25/ T-Value >= 0.001 m ³ /s							
26/ S-Value < 0.01						THE STI	CAL !
27/ S. Value >= 0.01						I MESO	स १८०
Geology							全 条线
27/ S-Value >= 0.01 Geology 28/ Altuvial Formation 29/ Volcanic Formation							
29/ Volcanic Formation			3 74 8			4.0	
30/ Limestone Formation							报路
31/ Sandstone Formation	-*		Šerie Jakes		ri fis	S CASTA	
32/ Other Sediment Formation	#	23.9	********	re navies	n n la s	10000	Sais A
Technical	}		ļ	 	 	<u> </u>	1
33/ Minimum Yield < 10 m³/h				4		•	
34/ Minimum Yield >= 10 m³/h		·	; 	!	ļ		
Se Other	_		ļ		 		<u> </u>
34/ Minimum Yield >= 10 m ³ /h Other 35/ Tapped Using Gravity	#		ļ	. ‡			
36/ Undeveloped Spring			<u>.</u>	1		• • •	
37/ Untapped Spring	#			· 	<u></u>	···	

LEGEND: # - Specify figure

1



Conte	nt: Water Sources - General Ir	of or mation			Page:	Date:		Filename: b20-i	
Data Collection Level: Barangay Prov. No.:			Mun. No.		Shtname: (B) G				
Region Number: Prov. Name:			Mun. Name:			Form No. : B 4.	1		
	Barangay Number/Barang	ay Name				·	ļ		
	Type of Source	e ·		Shallow Well	Deep Well	Spring .	Shallow Well	Deep Well	Spring
	I/ Total Number of Source		*		- 13 mar				
	Implementation			:					
	2/ Government Agency		#				•		
	3/ Private		#						
	Usage			1					
	4/ Drinking		A				<u> </u>		
General Information	5/ Washing/Bathing	.,	#						
٤	6/ Gardening		#					-	
亨	7/ Irrigation						l		
	8/ Industrial					•	I		
je j	Water Quality		•			,			
ŏ	9/ High Iron/Manganese Cont	ent	#				I	· · · · · · · · · · · · · · · · · · ·	
	10/ High Chloride Content	i	*		·		l		· · · · · - +
	11/ Turbidity/Color/Smell		*						
	Production		٠.			-			
	12/ Less/No Water in dry seaso	on .	#					-	
	13/ Usable through the year		#						
ļ ———	Technical		_						
	14/ Diameter < 100 mm (4")						327.32		粉的。
	15/ Diameter >= 100 mm (4")		#			6 1000	Per Sail	3.00	
۽	16/ SWL < 5 m below ground		#	230 32 3		1000			
	17/ SWL.>= 5 m below ground	1	#	<u> </u>	<u> </u>			=.4 /**** #	
Ę	18/ Specific Cap. < 3 m ³ /hr/m		#	A\$4.38\$4.82			1377.00	\$ 15 St 48	是自然
ğ	19/ Specific Cap. >= 3 m ³ /br/m		<u>.</u> .	578	161-1944 1		X15.055	18 7 18 11	33 JUNE
5	20/ B-Value < 1,000 s/m ³		-				持续的	10.61	A 2 14 14
^	21/ B-Value < 1,000 s/m ³		*	100		18 (5.73)			
	22/ C-Value < 60,000 s ² m ⁶ (W	All Lara Canal	<u>"</u>						1835
:	23/ C-Value >= 60,000 s ² m ⁶	en Loss Consc.)	#					30.00	200
	Technical		*	TEXEST ED	2-25-25 (S) 		E-CONTRACTOR	Assessed A. C.	13 8 8 3 7 7 7 7
l	24/ T-Value < 0.001 m²/s		#	800 C 10 C	e-pe-cal	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6833648	100000000000000000000000000000000000000	18X131-YEL
1	25/ T-Value >= 0.001 m ² /s		 *	TATAR			11.30.52	3 4 4 10	A. 1862:
g	26/ S-Value < 0.01 m/s		-	100				1771 A 1777	44.47
Information			-	1000 C		TO THE		HARATI	W 25:
e G	27/ S-Value >= 0.01			ALCONOMIC	120 Table 1		1445	COLUMN !	
Ę	Geology 28/ Alluvial Formation		 #	- 1 CT 22			1		3848.46.
quifer	<u> </u>						WILL		
۸ چ	29/ Volcanic Formation		-						1818
1	30/ Limestone Formation	,							18 3 X
1	31/ Sandstone Formation		*	10 May 14	10000		HAVE F		17. F. E.
	32 Other Sediment Formation	1	*	3111111		FREW PARTY	120 180 18	KARA LINES	FEE ACOR.
	Technical 3.9 Minimum Yield < 10 m ³ /t		#	<u> </u>	!		 		
ဝ	}					• • • • • • • • • • • • • • • • • • • •	· - · · · · · · ·	• • • • •	
5	34/ Minimum Yield >= 10 m ³	/0	-	 	-	·	 		
Spring Info.	Other 35/ Tapped Using Gravity			 			1		
Š			,,		•	•	1	•	
1	35/ Undeveloped Spring		"		÷	•	1	•	
1	37/ Untapped Spring								

LEGEND. 4 - Specify figure

T

Content: Water Sources - Untapped Spri	ng Informat	tion	Page No.:
Data Collection Level: Barangay	Mun. No.:		Date:
Region Number:	Mun Nam	e:	Filename: h2o-res.xls
Prov. No.:	Brgy. No.		Shtname: (B) Spring
Prov. Name:	Brgy. Nan	ie:	Form no.: B 4.2
Description of Information	Number		Data
Owner of the Untapped Spring Site			
Production during dry Season (Liter/minute			
Distance from the spring source to entrance of the service area.	=		
Number of Households in the service area.			
Elevation Difference between the spring source and the service area ensuring gravity	y		
SKETCH (Location of Spring, Service a	ind Transmi	ission Route)	

Content: Water Sources - Well Information			Page No.:		
Data Collection Level: Barangay	Mun. No.:	and the state of t	Date: Filename: h2o-res.xls		
Region Number:	Mun. Name:	- Makananan da 1-4 mengangkan kengangan dan panggan panggan panggan panggan panggan panggan panggan panggan pa			
Prov. No.:	Brgy. No.		Shtname: (B) Well		
Prov. Name:	Brgy. Name:		Form no.: B 4.3		
Description of Information	Number	D	ata		
Owner of the Well					
Well Depth					
Water Level					
Use					
Abstract					
Water Quality		· · · · · · · · · · · · · · · · · · ·			
Production					
Year Constructed					
Number of Household					
SKETCH (Location of Well, Service and	Transmissio	n Route)			

5. WATER SUPPLY SYSTEMS

T



	LY - Level 11 System Date:	Page:	Filename h20supp.
Data Collection Level: Sys	tem Prov. No.:	Mun. No.:	
Region No.:	Province Name:	Mun. Nam	ne: Form No.: S 5.1.1
INFO, GROUP	INFO DESCRIPTION	CODE	DATA
	2/ Identification (Source No.)	#	
System Identification	3/ Name/Owner of System	ch	
State in the state of the state	4/ Coordinates Scheme Cntr.	#	
, <u></u>	5/ Barangay a	1 # 1	
	6/ Barangay b	#	
;	ov Barangay o 7/ Barangay c	#	
System Coverage	8/ Barangay d	#.	
İ	9/ Barangay e	#	
ı	10/ Barangay f	#	
	11/ Construction Year	+;	
l	12/ Population in Service Area	 " -	
Original Design	13/ No. of Households in Service Area	+ + +	
Assumption	14/ Rural Pop. Served by Communal Faucets	 	
นาวงกลาโกกกล	15/ Urban Pop. Served by Communal Faucets	 	
Fill in: 14 -15 or 16-17	16/ No. of Rural HH Served by Communal Faucets	- 	
CD1 III. 14 -12 OF 10-17	17/ No. of Urban HH Served by Communal Faucets	 	
	18/ Number of Communal Faucets	 	
	19/ Year of Update	#	
	20/ Pop. in Service Area	#	
Actual System	21/ No. of Households in Service Area	#	
Including Extension	22/ Rural Pop. Served by Communal Faucets	#	
Tichnon's evenien	23/ Urban Pop. Served by Communal Faucets	#	
Fill in: 22-23 or 24-25	24/ No. of Rural IIII Served by Communal Faucets	#	
Fill 81: 22-23 Of 24-23	25/ No. of Urban HH Served by Communal Faucets	#	
	26/ Number of Communal Faucets	#	
	27/ Type of Source	1	
Water Sources	28/ Source Capacity (m³/l	1 #	
	29/ Length of Transmission Main (n		
	30/ Length of Distribution Main (n	4	
	31/ Number of Reservoirs	#	
Distribution System	32/ Total Volume of Reservoirs (m		
	13/ No. of Metered Communal Faucets	4	
	14/ No. of Unmetered Communal Faucets		
· · · · · · · · · · · · · · · · · · ·	35/ Supply Period (hrs/c		
	Dirty Water	⁴	
	36/ a) Everyday	+ + +	
	37/b) Once a Week	 	
	38/ c) Once a Month	#	
	39/d) Occasionally	 	
	Taste / Smell		The state of the s
	40/a) Good Taste	+ # +	
	41/b) Salty Taste		
Service Level	42/c) Woody Taste	#	
during	43/d) Metallic Taste	#	
Dry Season	44'e) Others		
	Supply Interruption	 	مرازة المستقال الكرية في المستقال المس
	45/ - Power Failure (times/mont	h) #	
	46/ - Pump Breakdown (times/mont		
:	47/ - Pipe Burst (times/mont		
	48 - Other (times/mont		
	Water Pressure	4	
· · · · · · · · · · · · · · · · · · ·	49/ - No. of Fauceis w. Adeq. Pres. (% of total	1) #	
B .			



Content: WATER SUPE	PLY - Level II System Date:		Page:	Filename h20supp.xls
Data Collection Level: Sy			Mun. No	
Region No.:	Province Name:		Mun Na	ime: Form No.: S 5.1.2
INFO. GROUP	INTO DESCRIPTION	1	CODE	DATA
	151/ No. of Technical Professionals		#	
	52/ No. of Administrative Staff		#	
Staff	53/ No. of Collectors		#	
	54/ Total No. of Staff		#	
	Who does the repair ?		L	the Principle massing state of the said
	55/a) Local Tradesman		X x	
Repair	56/b) MEO/CEO		x	
	57/c) PEO		X	
	58/d) DEO		x	
	59/ Annual Expenditures	(Pesos/Yr)	#	
	60/ · Wages	(Pesos/Yr)	#	
	61/ - Fuel, Chemicals, Materials	(Pesos/Yr)	#	
Expenditures	62/ - Transport	(Pesos/Yr)	#	
,	63/ - Repairs	(Pesos/Yr)	#	
	64/ - Loan Repayment	(Pesos/Yr)	#	
	65/ - Others	(Pesos/Yr)	#	
	66/ Consumers Payment	(Pesos/year)	#	
	67/a) Per pail	(Pesos pail)	#	
	68 b) Per volume	(Pesos/m³)) #	
Tariff Structure	69/c) Per household	(Pesos/HH)		·
	70/d) Others		X	
	71/ Average Collection Efficiency	(%))	
-	72/ Annual Billings		Ħ	
•	73/ Billings to P.F. Consumers	(Pesos/Yr)) #	
Billing	74/ Billings to H.C. Consumers	(Pesos/Yr) #	
	75/ Expected Subsidies	(Pesos/Yr)[#	
	76/ Others	(Pesos/Yr	<u> </u>	
<u> </u>	77/ Annual Income	(Pesos/Yr		
	78/ - Payment by P.F. Consumers	(Pesos/Yr		
Revenues	79/ - Payment by H.C. Consumers	(Pesos/Yr) #	
	80/ - Subsidies	(Pesos/Yr		
•	81/ - Others	(Pesos/Yr) #	



ontent: WATER SUPPI	.Y - Level HI System Date:		Page:	Filename:h20supp.
ata Collection Level: Sys			Mun. No	Shtname:(S)Level III P1-2
egion No.:	Province Name:		Mon Na	
INFO. GROUP	INFO DESCRIPTION		CODE	I DATA
MIO, OROUT			#	
	2/ Identification (Source No.)			
System Identification	3/ Name/Owner of System		ch	
	4/ Coordinates Scheme Cntr.		#	
	Municipalities Covered by System		<u> </u>	(1) 10 10 10 10 10 10 10 10 10 10 10 10 10
	5/ Municipality a		#	
	6/ No. of Cov. Rural Bgys. in Mun. a		#	
	7/ No. of Cov. Urban Bgys. in Mun. a		#	
	8/ Municipality b		#	
System Coverage	9/ No. of Cov. Rural Bgys. Mun. b		#	
	10/No. of Cov. Urban Bgys. Mun. b		#	
			#	
1	11/ Municipality c			
•	12/ No. of Cov. Rural Bgys. Mun. c			
	13/ No. of Cov. Urban Bgys. Mun. c		#	
	14/ Construction Year		#	
	15/ Size of Service Area	(ha)	#	
	16/ Population in Service Area		#	
	17/ Households in Service Area		#	
	18/ Area with Level III Services	(h4)	#	
	19/ Area with Level II Services	(ha)	#	
	20/ Area with Level I Services	(ha)	#	1
and the second second	21/ Area with No Services	(ba)	- #	
		(04)		
	22/ Rural Pop. with Level III Services		#	
	23/ Urban Pop. with Level III Services		#	
Original Design	24/ Population with Level II Services		#	
Assumption	25/ Population with Level 1 Services		#	
	26/ Population with No Services		#	1
Fill in: 22 -25 or 26-30	27/ Rural Households w/ Level III Services		#	
	28/ Urban Households w/ Level III Services		#	
	29/ Households with Level II Services		#	
•	30/ Households with Level 1 Services		#	
	31/ Households with No Services		"#	
			#	<u> </u>
:	32/ House Connections			
	33/ Population per House Connection		#	
	34/ Households per House Connection	<u>:</u>	#	
	35/ Communal Faucets	· · ·	#	
	36/ Population per Communal Faucets		#	
	37/ Households per Communal Faucets		#	
	38/ Year of Update		1 #	
•	39/ Size of Service Area	(ha)	#	
	<u></u>	(10)	#	
•	40/ Population in Service Area	 :	#	1
	41/ Households in Service Area			
	42/ Area with Level III Services	(ha)		
	43/ Area with Level II Services	(ha)		
	44/ Area with Level I Services	(ha)		
	45/ Area with No Services	(ha)	Ħ	
	46/ Rural Pop. with Level III Services		#	
	47/ Urban Pop. with Level III Services		Ħ	
Actual System	48/ Population with Level II Services		#	
Including Extension	49/ Population with Level I Services		#	
•			#	
Fill in: 46-49 or 51-54	50/. Population with No Services		#	
	51/ Rural Households with Level III Services			
	52/ Urban Households with Level III Services	·	#	
	53/ Households with Level II Services		#	
	54/ Households with Level I Services		#	
•	55/ Households with No Services		#	
:	56/ House Connections		#	
•	57/ Population per House Connection		#	
	58/ Communal Faucets		#	
	59/ Pop. per Communal Faucet		#	
	60' HH per Communal Faucet		#	<u> </u>





Content: WATER SUPPLY	Y - Level III System	Date:		Page:	Filename: h20supp.xls Shtname: (S)Level III P2-4
Data Collection Level: Syste	ran l	Prov. No.:		Mun. No	
	Prevince Name:			Mun Na	
INFO. GROUP		DESCRIPTION		CODE	DATA
	61/ Main Source A: (S	ource Type)		#	
J - 3-	62/ Source No.			#	
	63/ Source Capacity		(m³/h)	#	
[[64/ Operating Time		(brs'd)	#	
	65/ Main Source B: (S	ource Type)		# #	
l	66/-Source No.				
	67/-Source Capacity		(m³/b)	# #	
	68/ Operating Time	Towns	(brs/d)	#	
	69/ Main Source C: (S 70/ -Source No.	ource type)		#	
		· · · · · · · · · · · · · · · · · · ·	(m³/h)	#	
	71/-Source Capacity		(hrs/d)		
	72/ Operating Time 73/ Main Source D: (S	Aurea Turis)	[1930]	"	
	74/-Source No.	oarce 1)pc/			
1 ·	75/ -Source Capacity		(m³/h)	#	
	76/ -Source Capacity 76/ -Operating Time		(hrs/d)		
	77/ Main Source E: (S	ource Type)		Ħ	
	78/ -Source No.			#	
1	79/ Source Capacity		(m³/h)	#	
	80/-Operating Time		(hrs/d)		
	81/ Main Source : F (S	ource Type)	·	#	
	82/ -Source No.			#	
3	83/ -Source Capacity		(m³/h)	#	
	84/ Operating Time		(hrs'd)	#	
	Other Well Source	:5			是我是我的最后的是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
l i	85/-Number			#	
	86/ -Total Capacity		(m³ h)	#	
	87/ -Total Production		(m³/d)	#	
	Other Surface Wa	ter Sources			Branch and Committee of the Committee of
	88/-Number		·	#	
	89/ -Total Capacity		(m³/h)		<u></u>
	90/ -Total Production		(m³/d)	#	
	Other Spring Sou	rves		#	
	91/ -Number			#	
	92/ -Total Capacity		····	#	
	93/-Total Production			#	The state of the s
į	Water Production			#	<u> </u>
	94/ Grand Total Fredu				The late of the way to be the second of the
1	Last Year's Produ	cuon	/>/L1	#	
1	95/-January		(m³/month)		
	96/-Feburary		(m³/month) (m³/month)		ļ
	97/ -March				
	98/-April		(m³/month)		
1	99/ -May		(m³/month)		
Production Statistics	100/-June	<u> </u>	(m³/month)		
í	101/-July		(m³/month)		
	102/ - August		(m²/month		
	103/-September		(m³/month)		
	104/-October		(m/month		
	105/ -November		(m³/month		
	106/ -December		(m³/month)		
	107/ Length of Transn	nission Mains	(m)		11
Transmission/	108/ Length of Distrib	ution Mains	(m		<u> </u>
Distribution	109/ Number of Reser	voirs		#	
	110/ Total Volume of	Reservoirs	(m³) #	

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Content; WATER SUPI	LY - Level III System Date:		Page:	Filename h20supp
Data Collection Level: Sy	stem Prov. No.:		Mun. No	o.: Shtname:(S)Level III P3-4
Region No.:	Province Name:		Mun. Na	
INFO. GROUP	INFO DESCRIPTION		CODE	DATA
	[1] I/ Supply Period (ırs'd)	#	
	Dirty Water			इस देखते हो इस इस इस देश इस देश है।
	112/a) Everyday		#	
	(13/b) Once a Week		#	-
	114/c) Once a Month		#	
	(13/d) Occasionally		#	
	Taste / Smell			A LANGE SECTION THROUGH A SECTION OF
	116/a) Good Taste		#	
	117/b) Salty Taste		#	
Service Level	118/e) Woody Taste		#	
(Dry Season)	119/d) Metallic Taste		#	
(Diy season)	120/e) Others		#	
	Supply Interruption			· 医克克克氏 医原子氏 不知此後,我們也不知道不一日日本
•	121/- Power Failure (times/m		#	
	122/ - Pump Breakdown (times/m		#	
	123/ - Pipe Burst (times/m		#	
	124' - Other (times'm	onth)	#	
	Water Pressure			
	125/ - Supply, 2nd floor (% of 1		#	
*	126/- Supply, Ground floor (% of 1			
. <u> </u>	127/ - Inadequate Pressure (% of 7	OLEL	#	
	Domestic H.C. Consumers		- 4	
	128/ - Number of Metered Connections	1	#	
		n³/d)	#	
	130/ - Number of Unmetered Connections		#	
	Domestic P.F. Consumers	[[1] 表 [1] 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1
	131/ - Number of Metered Public Faucets		#	
		n³/d)	#	
	133/ - Number of Unmetered Public Faucets		#	
•	Institutional Consumers			ारकोर, वर्षा प्रदेश हैं के बहु प्रकार कर के विकास है है है है है है है है है है है है है
Consumer	134/ - Number of Metered Connections	<u></u>	#	
Consumor		n³/d)	#	
	136/ - Number of Unmetered Connections		#	<u> </u>
,	Commercial Consumers			
	137/ - Number of Metered Connections		. #	
		n¹/d)	#	
	139/ - Number of Unmetered Connections		#	
	Industrial Consumers			
	140/ - Number of Metered Connections		#	
		a³/d)	Ħ	
	1427 - Number of Unmetered Connections		#	
	143/ No. of Technical Professionals		#	
	144/ No. of Operators		#	
Staff	145/ No. of Technical Support Staff		#	
	146/ No. of Administrative Staff		#	
	147/ No. of Collectors		#	
	148/ Total No. of Staff		#	
	149/ Metered Consumption (m³/		#	
	150/-January (m³/m	ากน้า)	Ħ	
	151/-Feburary (m³/m	nth)	#.	
	152/-March (m³/m		#	
*	153/-April (m³/m		#	
	154/-May (m³/m		#	
			#	
Consumption				
- ,	156/-July (m³/m		#	
	157/ - August (m³/m		#	
	158/-September (m³/m		#	
	159/ -October (m³/m	(diny	¥	
	160/ -November (m²/m	nth)	#	
	161/-December (m³/m		#	
		car)	¥	

Content; WATER SUPPI	LY - Level III System Date:		Page:	Filename h20supp.xls
Data Collection Level: Syr	tem Prov. No.:		Mun No.	
Region No.:	Province Name:	********	Mun. Na	
INFO. GROUP	INFO DESCRIPTION		CODE	DATA
	163/ - Domestic	(Pesos'm³)	#	THE THE WORLD SEE SEE SEE SEE SEE SEE SEE SEE SEE SE
	164/ - Institutional	(Pesos/m³)	#	
Consumption	165/ - Commercial	(Pesos'm³)	#	
(continued)	166/ · Industrial	(Pesos/m³)	#	
	167/ - Others	(m³/\r)	#	
	168/ Annual Expenditures	(Pesos/yt)	#	
	169/ - Wages	(Pesos/)T)	#	
	170/ - Fuel, Chem., Materials	(Pesos/yr)	#	
Expenditures	171/ - Transport	(Pesos/yt)	#	
Dapendado	172/ - Repairs	(Pesos/yt)	#	
	173/ - Loan Repayment	(Pesos/yt)		
	174/ - Others	(Pesos'yτ)	#	
	Residential Consumption:		<u> </u>	The state of the s
	175/0-10 m³/month	(Pesos/m³)	#	
	176/11 - 20 m³/month	(Pesos'm³)	#	
i ·	177/21 - 30 m³/month	(Pesos/m³)	#	
	178/31 - 40 m³/month	(Pesos'm³)	#	
	179/41 & Up m'/month	(Pesosim ³)	#	
	180/ Flat Rate per Month	(Pesos'm ³)		
	Institutional Consumption:	\	4	1. 1995 (1997) · 电容容器 (1997) · 14 (1997)
	181/0 - 10 m³/month	(Pesos/m ³)	#	
		(Pesos'm)		
1. The state of th		(Pesos/m)		
		(Pesos m)	4	
<u>.</u>	184/31 - 40 m³/month			
	185/41 & Up m³/month	(Pesos'm)	4	
	186/ Flat Rate per Month	(Pesos/m³)	4	
Tariff Structure	Commercial Consumption:	0(.)		<u> </u>
	187/0 - 10 m/month	(Pesos/m)		
	188/11 - 20 m ³ /month	(Pesos/m ³		
	189/ 21 - 30 m ³ /mouth	(Pesos/m)		
	190/ 31 - 40 m³/month	(Pesos/m³		
	191/41 & Up m³/month	(Pesos/m³	·	
	192/ Flat Rate per Month	(Pesos/m³) #	
	Industrial Consumption:			
	193/0 - 10 m³/month	(Pesos/m ³		
	194/11 - 20 m ³ /month	(Pesos'm)		
	195/21 - 30 m/month	(Pesos/m³) #	
	196/31 - 40 m/month	(Peses'm³) #	
	197/ 41 & Up m³/month	(Pesos'm)) #	
1	198/ Flat Rate per Month	(Pesos/m³		
1	199/ Avg. Collection Efficiency	(%		
	200/ Annual Revenues	(Pesos yr		
	201/ - Residential	(Pesos/yr		
	202/ - Institutional	(Pesos yr		<u> </u>
•	203/ • Commercial	(Pesos/)T		
Daysanias	204/ - Industrial	(Pesos/)t		
Revenues	2057 - Others	(Pesos')r) #	
	Policy on Non-Payment			34 · 34 · 35 · 36 · 36 · 36 · 36 · 36 · 36 · 36
1	206/ - Time Before Disconnect	(days) #	
i	207/ - Armual No. of Disconnect	/D		
l	208/ - Reconnection Fee	(Pesos	2L *	<u> </u>

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Content: Water Supply - Level A Facility	uppiy - Leve	I A MCILI	,				1							1	
Data Collection Level: Municipal	evel: Municit	al				Province Number:	ımber:	-						Shtname:(F)Level I	- cvc
Region Number						Province Name:	ame:							Form No.: F	: 5.3.1
					Public	Public Facility					Private	Private Facility			
NEDA Geographic M Code	Municipality	Λœ	Deep Well	Shallow	Covered/ Improved Dug Well	Open Dug Well	Developed Spring	Sub-Total	Deep Well	Shallow Well	Covered/ Improved Dug Well	Open Dug Well	Rain Collector	Sub-Total	Total
		Urban													
		Rural				-									
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6. ENVIRONMENTAL SANITATION DATA

ontent: Env.	content: Environment vanitation - mousenoid Achiets	Conscuo	O LOUCES			Dair.				ruge No.		`	ruename, sant, xis	SGE LAD
ata Collecti	Data Collection Level: Municipal			1		Province Number:	Number:	:			S	htname: (M) House	Shtname: (M) Household Toilets
legion Number:	ber:					Province Name:	Name:			ŧ			Form No.: M 6.1	M6.1
			4	Number of I	Household	s Using Se	of Households Using Sanitary Toilet	ដ		Vimber	of Honsei	splou	Number	r of Household
NEDA Geographic	Vimenality		Water	Water Sealed		IGIA	VID I stabe	Sub-Total	Total	Using U	Using Unsanitary Toilet	Toilet	Wil	Without Toilet
ogo O	(him/form)	话	Flush	Pour	Pour Flush	1 4 2	ora na	-one	12001	D		-		
		Urban	Kun	Urban	Kural	Urban	Kural	Urban	Rural	Urban	Rural	Total	Urban	Rural Total
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Filename: sanit.xls	Shtname: (M) School Toilets	Form No.: M 6.2	Number of Toilets	Unsanitary	Total Public Private Total										
Page No.					Public Private								:		
Date:	١٥. :	Vame:	Transfer of Condens	3 I	Public Private Total										
ts.	Province No.	Province Name:		TIOOIIS	Private Total Pu										
- School Toilet			N. P. S.	Number	Public Pr		**************************************				:	: :	-		
Content: Environment Sanitation - School Tollets	Data Collection Level: Municipal	mber :		Municipality	:										
Content: E	Data Colle	Region Number:	NEDA	Geographic	Socie										

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Data Collection	n leuch Municipal		Province No:	. 02					37	htname: (M) Publ	Shmame: (M) Public Toilets	K(S, Al
Region Number	Region Number		Province Name:	Zame:								Form No.:	M 6.3
							Public Utilities	iies					
NEDA			Public Markets	larkets			Jeepney/Bus Terminal	iminal			Parks/Pla	Parks/Playground	
Geographic	Municipality		Z	Number of Toilets	£	i	Amny	Number of Toilets			Nu	Number of Toilets	ts ts
Code		Number	Sanitary	Sanitary Unsanitary	Total	Number	Sanitary Unsanitary	i I	Total	Number	Sanitary	Sanitary Unsanitary	Total
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	Provincial Total												

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN Filename: sanit xls Page No.: Content: Environment Sanitation - Drainage Facilities Shtname: (M) DrainageFacility Prov. No. : Data Collection Level: Municipal Form No. : M 6.4 Prov. Name: Region Number: DRAINAGE FACILITIES (LENGTH) Open Ditches & Unlined Outfalls to Reinforced NEDA Open Channel Drainage rivers from Street Gutters Concrete (with concrete Municipality Geographic Main Circular Pipes drainage mains Laterals and masoury) Code (Km) (Km) (Number) (Km) (Km) (Km) Provincial Total

Content:	Environment Sanitati	on - Munic	ipal Solid V	Waste Coll	ection and	Disposal		Filename:	sanit xis
Data Coll	lection Level: Municip	pal	Prov. No.	:	Date:	·	Shtname:	(M) Solid\	Vaste
legion N	lumber :	Prov. Nam	ie:			Page No.		Form No.	: M 6.5
				Municipal S		·		Ithout Ser.	
NEDA Geo- grabic Code	Municipality -	Open Dump Trucks	er of Collections Closed Type Trucks	Total Units	No. of HPs Served by Open Dump Site	oosal No of HHs Served by Sanitary Landfill	Dumping (Land and Water)	HH by Marviet Burying	Compostin
		#	#	<u> </u>	<u> </u>	<u> </u>	#	#	#
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	Provincial Total					 .			

Content: Environment Sanitation - Household Toilets Data Collection Level: Barangay Province Number: Region Number : Province Number: NEDA Geographic Barangay Flush Pour Flush Code Code Urban Runi Urban Runi Urban Runi	arangay	fousehold	d Toilets Province Number:	1		Date:				Page No.:			Filename: sanit.xls	sant.xls	
Data Collection Level: B. Region Number: NEDA Geographic Baran Code	arangay 18ay		Province N								-				
Region Number: NEDA Geographic Code	koŝt			umber.				Municipal	Municipal Number:			Shtname:	(B) House	Shtname: (B) Household Toilets	S
1 1 1 1	, say		Province Name:	ame:				Municipal Name:	Name:				Form No.: B6.1	: B6.1	
	, kagi		N	nber of H	ouscholds	Number of Households Using Sanitary Toilet	utary Toile	ಕ		Z	T Of House		Y	er of House	holds
		į.	Water Sealed	calcd		aciety I dT/	arit	Cub Total	Potel	Using	Using Unsanitary Toilet	Toilet	**	Without Toilet	H
		1	Flush	Pour Flush	lush.	1 1 2	2117	-One	1000 T		•				
		Urban	\under 1	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	lato!;	Urban	Kurai	injo.i.
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Municipal Total	ta]														

	Content: Environment Sanitation - School To	School Toilets	-	Ω	Date:	Content: Environment Sanitation - School Toilets Date:	7	Page No.			Filenam	Filename: sanit.xls	xis
Data Coll	Data Collection Level: Barangay	Province No.				Municipal No.	1			Shtnam	e: (B) S	Shtname: (B) School Toilets	oilets
Region Number	umber :	Province Name:			N.	Municipal Name:	Name				Form No.	٠ - ا	B 6.2
NEDA		V. The period	0,0040	Mirmhor	Number of Students	onte			ž	Number of Toilets	oilets		
Geographic	Barangay	Number of Schools	cnoors	Number	סוכ זס	Citio	.03	Sanitary		ור	Unsanitary		1010
Code		Public Private Total	Total	Public Private	L1	Totai F	Public	Private	Total	Public	Private	Total	;m10.1
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Data Collection	One Collection Park Baranese	Province No.	0.0				Municipal No.				Shtname	Shmame: (B) Public Toilets	Toilets
Region Number		Province Name:	'ame				Municipal Name:	I Name:				Form No.: B 6.3	B 6.3
							Public Utilities	Julitics .					
NEDA I			Public Markets	arkets	<u> </u>		Jeepney/Bus Terminal	s Terminal			Parks/Ple	Parks/Plavground	
Geographic	Barangay		E Z	Number of Toilets	S	1	N	Number of Toilets	ets	}	Nu	Number of Toilets	Ş
Code		Number	Sanitary Unsanitary		Total	Number	Sanitary	Sanitary Unsaniury	Total	ISOURN.	Sanitary	Sanitary Unsanitary	Total
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	Municipal Total				- 2								
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Data Collection Le	vel Recensor	Prov	No. :	Mun. No. :	And the second	Shtname: (B) I	rainageFacili	ty.
Region Number:	····· Dalasiga)	Prov	Name:	Mun. Name:			Form No.:	B 6.4
CONTRACTOR OF STREET		******		DRAINA	OE FACILITIE	S (LENGTH)	and the second	Cal and all companies and
NEDA Geographic Code	Barangay		Drainage Main	Open Channel (with concrete and masonry)	Open Ditches & Unlined Laterals	Reinforced Concrete Circular Pipes	Street Gutters	drainage mains
			(Km)	(Km)	(Km)	(Km)	(Km)	(Number
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7. INVESTMENT DATA

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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2) CDF: Countryside Development Fund

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Notes:
1) IRA: Internal Revenue Allotment
2) CDF: Countyside Development Fund

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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8. INSTITUTIONAL DATA

Institutional Data Survey October 1994

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Introduction:

One of the important elements of the provincial water supply and sanitation sector masterplan is the formulation of the institutional arrangements for managing the sector in the future. The following information are required to come up with the institutional arrangements, including training and financing mechanisms. Please do not be constrained by the space provided in the format; use additional sheets, as needed. Institutional information, by its very nature cannot be standardized into set tables.

1. Institutional Structure

Attach a copy of the current organizational structure of the Province (Annex A). Additional information about special (or ad hoc or interim) bodies relevant to water, environment or health organized by the Provincial Government may be included.

Attach a detailed organization chart of the PPDO (Annex A-1), the PEO (Annex A-2) and the IPHO (Annex A-3), including staff positions (name of incumbent not needed; indicate whether position is regular, contractual or casual).

Attach typical municipal government organization chart (Annex B).

Attach typical barangay organization chart including special committees (Annex C).

Table 5.1: Current Practices and Policies. How are the following project activities presently done by the LGU for locally-funded water supply and sanitation projects? Assess positive/negative aspects and strong/weak points. તં

		How done?	Assessment
i.	Sector Monitoring		
ó	Project Identification		
C.	Priority Determination		
Ġ,	Budget Allocation		

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ΰ	Feasibility Studies		
	Detailed Design		
બ	Community Mobilization		
, c i	Bid Documents Preparation		
	Procurement of Goods		
	Procurement of Services		
Х.	Drilling		
. .	Construction		
ë	Rehabilitation		
ü	Health & Hygiene Education		
ó	Operation & Maintenance		
ત ં	Cost Recovery Policy. Collection of Fees.		
Ċ.	Spare Parts Sourcing		

.:		Technical Training									; !	
vi		Management Training	:							·		=
2		Preventive Maintenance				· .		:				
ta ta	ä	Minor Repairs			:							
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	<u>`</u>	Water Quality Testing					:		· :			 7
	×	Project Monitoring	. 1.									

Table 5.2: LGU-funded Projects. How much have the LGUs (provincial and municipal) actually spent for water and sanitation projects and services in the last three years?

Project Name	Implementor	Date Started	Date Finished	Total Cost	Brief Scope of Work
			,		

Mark with * if done by administration.

4. Community (or Beneficiary) Participation in Financing.

What are the experiences with projects which require a financial contribution from the beneficiaries? Are there successful and unsuccessful experiences? (L < > (L < >) เร่

Are there any successful home improvement credit facilities which may be tapped in the future for water and sanitation? Can future project funds be channelled through the rural banks or other mechanisms? ં

Table 5.3: Non-Government Organizations. List down the NGOs who deal with water, environment or health activities. Enclose brief description, including con-Ś

Name of NGO (Include name of contact, positions, address, telephone)	Natl or Local? / Year Established	Major Areas of Activity or Expertise	Example of Recent Projects
	: .		

Table 5.5: Existing Training Institutes (with faculty) who can be tapped for future sector management and technical training activities. This may include technical/vocational schools, colleges and universities, NMYC centers, etc. List name of institute, existing courses, interest and potentials for collaboration in future training activities. Collect brochures, if available.

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Table 5.5: Other Existing Community-based Organization or Projects whose project experiences and approaches can help in determining future implementation strategies (Examples, Women's Clubs, Youth Clubs, civic clubs, etc.)

name of contact, posi-	Location of	Primary objective	Year established	Year established Example of current projects or activities
tion, address, tei.,	activities			
	-	:		
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What local strategies could be considered to increase private sector participation in the sector?

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How many local, province-based well drillers are there? How can we optimize their participation in future sector projects?

How many hardware stores selling plumbing and sanitary fixtures are there in the province? Do we have hardware stores in all municipalities?

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c. How many "pakiaw" contractors are there in the province?

Are there other examples of successful community-based projects (any sector) from which the project can learn from? ς.

Any other information, comments or suggestions which can help in formulating the sector institutional arrangements at the LGU level for the future? 0

(9) OTHER INFORMATION REQUIREMENTS

The following information are required separately from the questionnaires:

(1) Boundary of Urban and Rural Areas

The boundary of urban and rural areas in each municipality shall be indicated on the provincial map to be provided.

- (2) Provincial Development Plan
- (3) Socio-Economic Profile
- (4) List of Major Industries

The list of major factories by municipality shall be prepared showing their name, type of industry, location, number of employees, water resource/s and consumption, existence of wastewater treatment facility.

(5) List of Priority Project Site/s

The list of priority project sites for the following sub-sectors being proposed or planned by the provincial and municipal governments shall be submitted together with the basis justifying priority:

- 1) Water Supply Levels I, II and III
- 2) Sanitation
 - a. Public School Toilets
- b. Household Toilets
- (6) Unit Cost Base

2.6.2.2 DEFINITION OF TERMS

AIDE MEMOIRE

SUBJECT

ESTABLISHMENT OF A COMMON DEFINITION OF TERMS

RELATING TO WATER SUPPLY, SEWERAGE AND SANITATION

DATE : 12 January, 1995

- 1. From December 1993 up to June 1994, the NEDA conducted a series of nationwide orientation workshops to cover Phase I of the UNICEF-Assisted Updating of the 1988-2000 Water Supply, Sewerage and Sanitation Master Plan of the Philippines.
- 2. Based on the discussions during the workshops and based on the data gathered from the local government units (LGUs), regional line agencies and other entities concerned with the sector, the need to establish a common definition of terms relating to water supply, sewerage and sanitation was brought to light.
- 3. A consensus on a common definition of terms in the sector to be adopted by all sector agencies needs to be reached in order to facilitate uniformity in data collection and sector monitoring.
- 4. On April 22, 1994, the NEDA conducted a one-day small-group workshop held in Quezon City, the objective of which was to come-up with a position paper for submission to higher authorities and for subsequent adoption as the official definition of terms by the government. The workshop was attended by representatives from LWUA, NSCB, NSO, MWSS, DPWH. DILG, DENR, UNICEF, NWRB, ITN and NEDA.
- 5. A succeeding workshop was held in Cavite on 28-29 June 1994 to finalize and agree on the definition of terms to be used in the sector.
- 6. Annexes A and B contain the definition of terms relating to water supply and sanitation & sewerage as agreed upon during the two (2) workshops held for the purpose. The Annexes likewise include other additional definition of terms submitted by concerned agencies to NEDA after the Cavite workshop.
- 7. For consideration/adoption.

ANNEX A

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1

DEFINITION OF TERMS IN WATER SUPPLY

Levels of Service

- Level I (point source) a protected well or a developed spring with an outlet but without a
 distribution system, generally adaptable for rural areas where the houses are thinly scattered.

 A Level I facility normally serves an average of 15 households.
- Level II (communal faucet system or standposts) a system composed of a source, a reservoir, a piped distribution network, and communal faucets. Usually, one faucet serves 4 to 6 households. Generally suitable for rural and urban fringe areas where houses are clustered densely to justify a simple piped system.
- Level III (waterworks system or individual house connection) a system with a source, a
 reservoir, a piped distribution network and household taps. It is generally suited for densely
 populated urban areas.

Urban Area - definition includes the criteria on the economic and social functions of barrios, poblaciones and central districts as follows:

- 1. In their entirety, all municipal jurisdictions which, whether designated as chartered cities, provincial capital or not, have a population density of at least 1,000 persons per square kilometer.
- 2. Poblaciones or central districts of municipalities and cities which have a population density of at least 500 persons per square kilometer.
- 3. Poblaciones or central districts (not included in nos. 1 and 2) regardless of population size which have the following:
 - a. Street pattern, i.e., network of streets in either at parallel or right angle orientation;
 - b. At least six establishments (commercial, manufacturing, recreational and/or personal services); and
 - c. At least three of the following;
 - i) a town hall, church or chapel with religious services at least once a month;
 - ii) a public plaza, park or cemetery;
 - iii) a market place or building where trading activities are carried on at least once a week; and

iv) a public building like school, hospital, puenericulture and health center or library.

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4. Barrios/Barangays having at least 1,000 inhabitants which meet the conditions setforth in no. 3 above, and predominantly non-farming/fishing.

Rural Area - all areas not falling under the urban classification.

Rural Waterworks and Sanitation Associations (RWSAs) - non-stock, non-profit organizational envisioned to operate and manage Level II water supply facilities.

Barangay Waterworks and Sanitation Association's (BWSAs) - non-stock, non-profit organizations envisioned to operate and manage Level I water supply facilities.

Water Supply - the supply of water for domestic. municipal, industrial/commercial uses.

Water Supply Coverage - refers to the number of people in a given community or geographical areas who have access to safe water. The extent to which the population of a geographical area is covered (expressed in terms of the number of people served compared to the total population of that community or area).

Adequately Served - refers to those with access to safe water in accordance with the following rate of consumption:

Level 1... at least 20 liters/capita/day

Level II . . at least 60 liters/capita/day

Level III.. at least 100 liters/capita/day

Service Coverage - the no. of people a facility can serve.

Water Systems

A. Groundwater - is that portion of the rainwater which has percolated into the earth to form underground deposits called aquifers (water-bearing soil formations).

Groundwater as a source of water supply can be extracted through the following:

1. Wells - groundwater can be tapped by digging a hole or sinking pipes into the ground and Installing water-drawing equipment such as pumps. Wells can be classified according to the following:

- a. Deepwell are wells with depths greater than 20 meters constructed in areas characterized by aquifers or water-bearing formations generally located at a depth of more than 20 meters below ground surface (mbgs).
- b. Shallow Well are wells with depth of not more than 20 meters and are recommended for rural water supply development, particularly levels I and II services. Static water level in these areas are generally within 6 meters below ground surface.
- c. Dug Well normally circular or rectangular in shape, with diameter ranging from 1 to 1.5 meters. After the well is dug, it is necessary to put a masonry, brickwork or reinforced concrete which serve as protection against surface or outside contamination.
- 2. Springs spring water occurs when water in water-bearing stratum reaches the surface of the ground. Spring can be developed by enlarging the water outlet and constructing an intake structure for water catchment and storage.
- B. Surface Water is a mixture of surface run-off and groundwater. Surface sources includes rivers, lakes, streams, ponds and impounding reservoirs.

Aquifer - water-bearing strata.

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Water Right - is the privilege granted by the government to use and appropriate water.

Water Permit - is a document to appropriate water rights.

Salt Intrusion - encroachment of salt water upon fresh water,

Contaminated Water - water that contains microorganisms, chemicals, industrial or other wastes and is hence unfit for its intended use.

Population Underserved - population inadequately served.

Population Unserved - population without access to water supply facility.

Population Served - no. of population adequately served by a water system.

Level 1 - no. of Level 1 systems x 15 HH x 6 persons/HH

Level II - no. of Level II facility x 5 HH x 6 persons/HH

Level III - no. of connections x no. of persons served/connection

Rainwater Cisterns/Collectors/Catchers - reservoirs, tanks or vessels for the storage of rainwater.

Reliable Water Supply - efficient delivery of water supply in terms of quantity and quality.

Safe Drinking Water/Potable Water - water that is free of microorganisms or disease-producing bacteria (pathogens). In addition, the water should not possess undesirable tastes, odors, color, levels of radioactivity, turbidity or chemicals and it should pass the standards of the Philippine National Standards for Drinking Water (NSDW).

Service Area - geographic jurisdiction of water utilities.

Non-revenue Water - unbilled water.

Appropriate Technology - suited to local conditions and resources.

Infiltration Galleries - horizontal wells which collect water over the entire length.

Accounted-for-Water - billed water.

Access to Water Supply Facilities - access to water supply is categorized as follows:

Level I - the farthest user is not more than 250 meters from the point source.

Level II - the farthest house is not more than 25 meters from the communal faucet system.

Level III - the house has service connection from the system.

Private Water System - privately-owned water supply system.

Public Water System - system owned by the government.

ANNEX B

3

1

DEFINITION OF TERMS IN SEWERAGE AND SANITATION

Environmental Sanitation - the control of all those factors in man's physical environment which exercise or may exercise a deleterious effect on his physical development, health and survival.

Sanitation - the development and practical application of sanitary measures for the sake of cleanliness and protecting health.

Sanitary Toilet - is an approved type of toilet facility used for receiving and disposing human waste (feces and urine).

APPROVED TYPES OF TOILET FACILITIES

Type I

- a. Facilities requiring small amount of water to wash excreta into the receiving space/pit.
- Non-water carriage toilet facility requiring no water to wash excreta into the receiving space/pit.
 - e.g. ventilated improved pit latrine, sanitary pit privy

Type II

Water carriage type having a pour-flush or flush-type toilet facility and a septic vault/tank as the disposal facility.

Type III

Water carriage type with pour-flush or flush-type toilet facilities connected to septic tanks and/or to sewerage system to treatment plants.

- Flush type of toilet facility with a water-sealed toilet bowl or water closet and a mechanical device used to wash excreta into the receiving public sewer or any private sewage disposal plants/units by the use of flushing water with traps to provide "water seal."
- 2. Pout Flush type of toilet facility with a water-sealed toilet bowl that is flushed by manually pouring water to wash excreta into the receiving space/pit.
- Ventilated Improved Pit refers to an on-site toilet facility wherein the pit receives
 excreta directly from the user and therefore does not require water for flushing; it com-

prises a lined pit, vent pipe with a fly screen., cover slab and a superstructure which allows entry of fresh air into the pit.

4. Sanitary Pit Privy - type of toilet facility without using any amount of water, with a pit of at least 1-2 meters depth, a hole of one square-meter, provided with a floor covering, a riser, seat with cover which are all fly and rodent proof and a building for privacy.

Unsanitary Toilet - a type of facility used for receiving and disposing human waste which does not fall under the category of approved types of toilet facilities.

UNAPPROVED/UNSANITARY TYPES

- 1. Open Pit Privy a pit of at least the same dimension as the sanitary pit privy, provided with pit flooring, with or without riser and seat and without cover to protect from flies and rodents.
- Overhang -a structure provided with flooring and with an opening built above the body of water or above the ground without pit under it, used for defectation or the disposal of human waste. It may be a part of the house or a separate structure outside the house.

LEVELS OF TOILET USE

- 1. Communal a toilet facility shared by two or more households.
- 2. Public a toilet facility located at public places like markets, bus stations, etc. intended for public use.
- 3. School a toilet facility located in a school essentially for the use of students.
- 4. Household a toilet facility being used by an individual household.

Sewerage - facilities that collect human waste and sullage from residences and establishments usually piped and conveyed in structures (sewers, pump stations) for eventual treatment and safe disposal. Piped sewerage includes a collection system (street laterals), a conveyance system (truck sewers and pump stations), and a treatment plant/disposal system.

Human Waste - solid (fecal matter) and liquid (urine) wastes which originate from human.

Sullage - liquid wastes that do not carry excreta and which normally results from washing, bathing and laundry.

Storm Drainage System - a system comprising of conduits, pipes and other appurtenances for effecting drainage and used for conveying rain water, surface water or similar wastes.

Unsanitary Drainage System - an open ditch system of conveying domestic wastes and rainwater into a final disposal site without treatment. Includes open canals.

Households Without Toilet - households without any toilet facility but uses other areas for defecation like bodies of water like rivers, lakes, open fields, coastal areas, etc.

Access - availability of toilet facility within the household promises which can be used anytime by any member of the household.

On-site - human waste is deposited and treated where the toilet facility is located.

Off-site - human waste is transported for treatment away from where the toilet facility is located.