- PLANNING APPROACH FOR FUTURE SECTOR DEVELOPMENT Planning Principles and Data Management Planning Principles
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COMPOSITION OF FIGURES AND TABLES BY CHAPTER/SECTION

Guideline for Preparation of PW4SP

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12.1 General				
12.2 Sector Monitoring	- Monitoring activities with responsibilities in different administrative levels			
12.3 Project Monitoring	- Monitoring activities at project level			
12.4 Evaluation of Plan Implementation and Updating the PW4SP	- Manner of follow-up and feed back in planning and project implementation	T12.4.1	.1 Draft Formats for Annual Sector Performance Sum- mary Report (Provincial and Municipal Levels)	

2.6.2 Data Management

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2.6.2.1 OUESTIONNAIRE FORMS

STRUCTURE OF QUESTIONNAIRE

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1.1 Administrative Composition			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	M 1.1	B 1.1		
1.2 Past Population	<u> </u>			M 1.2.1	B 1.2.1		
				M 1.2.2	B 1.2.2	, ,	
1.3 Projected Population	<u> </u>			M 1.3	B 1.3		
1.4 Household Number	Ĺ			M 1.4	B 1.4		
1.5 Services	L			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		
3 HEALTH DATA							
3.1 Morbidity and Mortality				M 3.1	B 3.1		
3.2 Facility and Practitioner				M 3.2	В 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		4.					
5.1 Level II Systems						S 5.1.1	
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5.2 Level III Systems			L			S 5.2.1	
						S 5.2.2	
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5.3 Level I Facilities			. '			F 5,3.1	
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6.1 Private Toilet	L	<u></u>		M 6.1	B 6.1		
6.2 School/Public Toilet				M 6.2	B 6.2		
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	16.						
7.1 Previous annual Investment			P 7.1				
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

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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NEDA Geographic Code	Barangay	Professional, Technical & Related Workers	Administrative, Executive and Managerial	Sales Worker	Service Worker	Agricultural, Animal Husbandry & Forestry workers,	Production & related workers, Transport Equipment Operators and Laborers	Occupation not adequately defined or reported
		#	#	#	4 ±	Liunters #	#	#
	Augustin							
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

								3000		Filename, socio xis	xls	
Content: Socie	Content: Socio-economy - Family Income, Education and L	come, Educa	ation and L	iteracy	Date			rage.		9	Enmils, Inchme a	of Education
Data Collection	Tata Collection I mel . Rapangav		Prov. No.			Mun. No.:				Sheemame (5)	Family LIWING	TO TOTAL TOTAL
Tariff Tries	W. 124 C. L.		Prov. Name:			Mun. Name:				Form Number:	Form Number: B 1.7	
T T T T T T T T T T T T T T T T T T T		Num	ber of Fami	Number of Family by Income Class (Annual) (1990 Census)	Class (Ann)	ual)	1	tion by High	Population by Highest Level of Education	ucation	Literacy of Population 10 Years and Over (1989 Survey)	Population ind Over urvey)
NEDA Geographic Code	Barangay	Under P14,999	P15,000 to P29,999	P30,000 to P39,999	P40,000 to P59,999	P60,000 and over	Pre- school	Elem.	Secondary (High School)	Tertiary (College & Post	Literate	Dliterate
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2. LAND USE DATA



1 3 T	Content. I and Use - Printing I and Her	Date:		Page:		Filename: landuse.xls	xls
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			EXISTING	EXISTING LAND USE (IN HECTARES)	IECTARES) YE	AR:	
NEDA Geographic Code	Municipality	Forest Land	Grassland	Built-up	Agricultural	Mangrove, Fishponds, In- I and Water Areas	Openlands
		#	#	*	#	#	#
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Data Collect	Data Collection Level: Municipal	Prov. No. :				Sheetname: (M) FutureLandUse	utureLandUse
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			FUTURE	FUTURE LAND USE (IN HECTARES)	ECTARES) YE.	AR:	
NEDA Geographic Code	Municipality	Forest Land	Grassland	Buitt-up	Agricultural	Mangrove. Fishponds, In- land Water	Openlands
		*	#	#	#	##	#
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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se.xls	Sheetname: (B) Existing Land Use	B 2.1		- Openlands	#										
Filename: landuse.xls	Sheetname: (B)	Form Number:	SAR	Mangrove, Fishponds, In- land Water	Areas #						~~	******			
			SECTARES) YE	Mangrove, rassland Built-up Agricultural Fishponds, In-	#										
Page:	Mun. No. :	Mun. Name:	LAND USE (IN	Buit-up	71:	The state of the s									
			EXISTING	Grassland	*										
Date:	Prov. No. :	Prov. Name:		Forest Land	**										
rd Use		ber:		Barangay											Municipal Total
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Data Collect	Data Collection Level: Barangay	Prov. No. :		Mun. No. :		Sheetname: (B) FutureLandUse	nureLandUse
Region Number	lber:	Prov. Name:		Mun. Name:		Form Number: B	2.2
			FUTURE 1	AND USE (IN H	ECTARES) YE.	AR:	
NEDA Geographic	Barangay	Forest Land	Grassland	Built-up	Agricultural	Mangrove. Fishponds, In- land Water	Openlands
}		#	#	#	#	Arcas #	*
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3. HEALTH DATA

Content: Health - Morbidity and			Date:	1	Page Number:	
Jata Collection Level: Municipa	<u></u>	Region Number:		Filename: heal		
tov. Number:		Mun. Number:			1) Morbidity and	Mortality
rov. Name:		Mun. Name:		Form Number	: M 3.1	
		40.	1		Number of Case	\$
Cause Group	Disease	Name of Diseases	Water Related		1	Infant
Diseases of	No.	(Group)	Diseases	Morbidity	Mortality	Mortality
Infective	A01	2-4/ Typhoid Parathyphoid	X	 	 	
						
and	A.02	5-7/ Dysentary	-X	 		
. Parasitic	A.03	8-10/ Intestinal Parasites	<u> </u>	·		
(001-136)	A.04	11-13/ Diarrhea	<u> </u>	·	 	
	A.05	14-16/ Tuberculosis	I	l	ļ	·
	A.06	17-19 Conjunctivities	x	·		
	A_07	20-22/ Whooping Cough	.	I		
	A.08	23-25/ Threat Ear-Nose				
•	A 09	26-28/ Tetanus		I		
	A.10	29-31/ Septicemia	i	<u> </u>		
	A.11	32-34/ Chokera	X			
	A.12	35-37/ Varicella, Chickenpox	T	[1	
	A.13	38-40' Measks	1			
1	- A.14	41-43/ Dengue Fever	X		1	
	A.15	44-46/ Viral Hepatitis	x	1	T	
	A.16	47-49/ Melaria	X	1	T	
	A.17	50-52/ Schistosomiasis	<u>x</u>	ł	1	
	A.16	53-55/ Filariasis	$\frac{1}{x}$	}	1	
	A.19	56-58/ Venerial Diseases	+ `	}	 	
	A.20	•	 	}	·	
		59-61/ Other Bacter / Viral Dis.	}	 		· -
Neoplasms	B.01	62-64/ Malignant Neoplasms	 	·	·	
(140-239)	B.02	65-67/ Leukemia	 	<u> </u>	ļ.,	
Endocrine, Nutritional	C.01	68-70/ Diabetes Mellitus	<u> </u>	ļ		
& Metabollic	C.02	11-73/ Nutritional Deficiencies	l			
(250-279)	C.03	74-76/ Endocrine Disorder				
Blood & Blood	D.01	77-79/ Anemias	i		* *	
Forming Organs (280-289)		L				
Mental Disorder (290-319)	E.01		1			
Nervous System and	F.01	80-82/ Meringitis				
Sense Organs (320-389)	F.02	83-85/ Nervous System	ļ		1	
Circulatory	G.01	86-88/ Heart Diseases				
Systems (390-459)	G.02	89-91/ Vascular Diseases			·	<u> </u>
	- 11.01	92-94/ Bronchitis	· · · · · · · · · · · · · · · · · · ·	l	·	
Respiratory	IL02	95-97/ Procumonia		ļ		
Systems	H.03	98-100/ Influenza	 -		 -	
(460-519)	HOI	101-103/ Obstructive Pulmonary				
(460-319)						
	H.05	104-106' ARI	ļ	<u> </u>		
	1.01	107-109/ Appendicitis	Į			
Digestive System	1.02	110-112/ Gastrocal. Celitis		ł		
(520-579)	103	113-115/ Chronic Liver Disease	ļ		I	
	1.04	116-118/ Other Diges. Diseases				
Genito Urinary	J.01	119-123/ Kidney/ Nephritis				
System (580-629)	1.02	122-124/ Urinary Infections	L			
Complication of Programmy &	1. 41	135-131/ Promobusin				
the Puerperium (630-676)	K.01	125-127/ Premability	4.		1 .	100
Skin & Subcutancous	1.01	128-130/ Skin Diseases	X	l		
Tissue (680-709)	L.02	131-133/ Scabies	X			
Musculaoskeletal & Connective					†	
Tissue (710-739)	MOL	134-136' Arthrop., Rheumatism	1	· ·		
Congenital Anomalies (740-				 	 	
- ' '	N.01	137-139/ Congenital Anomalies		1	1	
759)			<u> </u>	ļ -	ļ	
	P.01	140-142/ Birth Tenuma	I	l	11	
Certain Causes of Prenatal	P.02	143-145/ Birth Injuries & Difficult Labor	I	l		
Morbitity & Mortality	P.03	146-148 Resp. Fetus/Newborn	I	l		
(760-179)	P.04	159-151/ Other Prenatal Causes	L	L		
Symptoms & III-defined	Q.01	152-154/ Semility		I		
Condition (780-799)	Q.02	155-157/ El-Defined Condition	1	1		
Accidents, Poisoning	R.OI	158-160' Burns		l		
& Violence	R.02	161-163/ Suffee, Foreign Body	1	i		
(800-999)	R.03	164-166/ Other Accidents	1	I		
			A	t	l	







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Content: He	alth - Facility and Pea	ctitioner	Date:		Page No.		Filename: l	nealth xls
	tion Level: Municipal		Prov. No.:			Shtname: (M)FacilityI	ractioner
Region Nun			Prov. Nan	ie:			Form No. :	M 3.2
r i	nemerican specific (1865) i de l'accessive de la company de la company de la company de la company de la compa La company de la company de La company de la company de	Num	ber of Faci	lities	Num	ber of Me	lical Practi	
NEDA Geographic Code	Municipality	Hospital	RHU	BHS	Doctors	Nurses	Midwives	
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Content: Health - Morbidity and	d Mortality			Date:		Page Number:	
Data Collection Level: Barangay		Region Number:			Filename: healt		
Prov. Number:	Mun. Nun		y. Number:			Morbidity and	Mogtabity
Prov. Name:	Mun. Nam		v. Name:		Form Number:		
	russa kan	r	<u> </u>			Number of Case	s
Cause Group Diseases of	Disease No.	Name of Dise (Group)		Water Related Discases	Morbidity	Mortality	Infant Mortality
Infective	A.01	2-4' Typhoid Parathyphoid		X	Ì		
and	A.02	5-7/ Dysentary		X			
Parasitic	A.03	8-10/ Intestinal Parasites		Х			
(001-136)	A 04	11-13/ Diamhea		X			
	A.05	14-16/ Tuberculosis					
	A.06	17-19/ Conjunctivities	<u>-</u>	X			
	A.07	20-22/ Whooping Cough			l		
	A.08	23-25/ Throat Ear Nosc			l		
	A.09	26-28/ Tetanus			 		
	A.10	29-31/ Septicentia					
	All	32-34/ Cholera		X	<u> </u>		
	A.12	35-37/ Varicella, Chickenp	ox		ļ		
	A 13	38-40/ Measles					
	A14	41-43/ Dengue Fever		X			
	A.15	41-46/ Viral Hepatitis		<u>X</u>	l		
	A 16	47-49/ Malaria 50-52/ Schistosomiasis			ł		
.1	A.17 A.18	50-52/ Schistosomiasis 53-55/ Filariasis		<u>X</u>	}- -	 -	
	A19			- 	 		
	A.20	56-58/ Venerial Diseases 59-61/ Other Bacter./ Viral					
Neoplasms	B.01	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
(140-239)	B.02	62-64/ Malignant Neoplass 65-67/ Leukonia	ns		 		
Endocrine, Nutritional	C.01	68-70/ Diabetes Melitius			 		
& Metabolic	C.02	71-73/ Nutritional Deficien					
	C.02	71-75/ Numbonial Dencier 71-76/ Endocrine Disorder					
(250-279) Blood & Blood	D.01	77-79/ Anemias					
Forming Organs (280-289)	D.01	77-777 AJRC11028					
Mental Disorder (290-319)	E.O1					 -	
Nervous System and	F.01	80-82/ Moningitis					
Sense Organs (320-389)	F.02	83-85/ Nervous System					
Circulatory	3.01	86-88/ Heart Diseases	:				
Systems (390-459)	G.02	89-91/ Vascular Diseases					:
333.00	H.O1	92-94/ Bronchitis					
Respiratory	H 02	95-97/ Pneumonia		1 11 1			· · · · · · · · · · · · · · · · · · ·
Systems	1L03	98-100/ Influenza				- 	
(460-519)	H.01	101-103/ Obstructive Pulm	onary				
	1L05	104-106/ ARI					
	LOI	107-109/ Appendicitis			<u> </u>		
Digestive System	1.02	110-112 Gastroent, Colitis	3				···
(520-579)	1.03	113-115/ Chronic Liver Di			l	· · · · · · · · · · · · · · · · · · ·	
	I.04	116-118/ Other Diges. Dis					
Genite-Urinary	1.01	119-121/ Kidney/ Nephriti				- 1	
System (580-629)	J.02	122-124/ Urinary Infection					
Complication of Pregnancy &	V AL	125 122/ 0			!		:
the Puerperium (630-676)	K.01	125-127/ Promaturity			· .		
Skin & Subcutanocus	L.01	128-130/ Skin Diseases		x			
Tissue (680-709)	L.02	131-133/ Scabies		x		i	
Musculaoskeleial & Connective	1						
Tissue (710-739)	MOI	134-136/ Arthrop., Rheum	ausm	:		ļ	
Congenital Anomalies (740-	37.61	137 130/Co				., .	
759)	N.01	137-139/ Congeniul Anon	TALECS				· .
	P.01	140-142/ Birth Trauma					
Certain Causes of Prenatal	P.02	143-145/ Birth Injuries & I	Difficult Labor				
Morbitity & Mortality	P.03	146-148/ Resp. Fetus/New					
(760-779)	P.04	159-151/ Other Prenatal C					
Symptons & El-defined	Q.01	152-154/ Sensity			[· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Condition (780-799)	Q.02	155-157/ DI-Defined Cond	ison		[
Accidents, Poisoning	R 01	158-160/ Burns					
& Violence	R.02	161-163 Suffee. Foreign l	Body		I		
(\$00-999)	R.03	164-166/ Other Accidents			l		





Content: Heal	th - Facility and Prac	titioner	Date:		Page No.		Filename: l	
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Region No.:	Prov. Name:		· · · · · · · · · · · · · · · · · · ·	Mun. Nan	ne:		Form No. :	B 3.2
		Num	ber of Fac	ilities	Num	ber of Med	lical Practi	oners
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4. WATER SOURCE DATA

	nt: Water Sources - General Information		Page:		Date:	Chinama: 41	Filename: hi	
	Collection Level: Municipal		Prov. No.			Shiname: (i	M) General In Form No	
egio	n Number:		Prov. Name	:		I	LOTH INC	
	Municipal Number/Municipal Name		Shallow	i		Shallow	*****	e
	Type of Source		Well	Deep Well	Spring	Well	Deep Well	Spring
	I/ Total Number of Source	#		ļ	i			
į	Implementation	4	ļ		 	ļ	. <u></u>	
	2/ Government Agency	#						
	3/ Private	#					; _	
	Usage			ļ	· 		.	
_	4/ Drinking	#		4		ł		
Ę	5/ Washing/Bathing	#						
Ë	6/ Gardening	#	<u> </u>]		
S S	7/ Irrigation	#	1	1		_		
Ę	8/ Industrial	#	1	1				
General Information	Water Quality					<u> </u>	:	
Ğ	9/ High Iron/Manganese Content	#					- 0.11.1	
	10/ High Chloride Content	#			1			, .
	II/ Turbidity/Cotor/Smell	#						
	Production	1		1				
	12/ Less/No Water in dry season	#				1		
	13/ Usable through the year	#	1	1	L			,
	Technical			J	Ţ			1
	14/ Diameter < 100 mm (4")	#		12.00		10.21		
	15/ Diameter >= 100 mm (4")	#		A Boxes	ROS III	ka ka	na in	395
uoi	16/ SWL < 5 m below ground	#						1
Ď.	17/ SWL >= 5 m below ground		1		1	1	· • · · · · · · · · · · · · · · · · · ·	
Ē	18/ Specific Capacity < 3 m ³ /hr/m	- ;	\$15 m		TRAN	[[]		
Enfo	and the first the second of th	"	是核心	1777		133	473.57	
(F)	19/ Specific Capacity >= 3 m³/hr/m	.	********	1 12 2	全 点不必	100%	中的模块	探察数
>	20/ B-Value < 1,000 s/m³	- ."	X+++	पं कारत	to the	1 farm	情识学的	HOUSE.
	21/ B·Value < 1,000 s/m ³	- ."		******	****		学 学生的	13:33
	22/ C-Value < 60,000 s ² m ⁶ (Well Loss Const.)	"			4	1333		持續
	23/ C-Value >= 60,000 s ² m ⁶	_ .*	Side		423.V	ACCESS!	8 1198 E/15	1000
	Technical		778775		downward and the state of the s	1 888848	VICE PAR	SE233
	24/ T-Value < 0.001 m ² /s] .#	-	******	-	177	dizitivi	155.7
¢	25/ T-Value >= $0.001 \text{ m}^2/\text{s}$. . *				Jak H	425	1:5-
ation	26/ S-Value < 0.01	_		1733			1:03:8	100
É	27/ S-Value >= 0.01					计图图语	MARTIN	3323
Ynf c	Geology		777/257257	a karana	1303508	t between		12000
fer	28/ Alluvial Formation	*		41.0	4	1546	计空间系	性统统
Aquifer Inform	29/ Volcanic Formation	*	30.50	4.44		18216	建铁铁铁	1
∢,	30/ Limestone Formation		1 3 2 3			44.7	第 次数	
	31/ Sandstone Formation		1 E 2 2 2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		414,6	-		454
	32/ Other Sediment Formation	1	1 8 6 16			decid		T
	Technical				1		·	<u> </u>
	33/ Minimum Yield < 10 m ³ /h	+	#		 			. =
ġ.		_[#			<u> </u>		
Spring Info.	Other				<u> </u>			1
i i	35/ Tapped Using Gravity		#	•	•			
Š	36/ Undeveloped Spring		#) 	: .		•	
	37/ Untapped Spring		#				· 	

LEGEND: 1 - Specify figure



	nt: Water Sources - General		£		Page:	Date:		Filename: h20-	res xls
Data	Collection Level: Barangay	Prov. No.:			Mus. No.		Shtname: (8) C	eneral Informa	tica
cegic	n Number;	Prov. Name:	en en	~~~~	Mun. Name:			Form No.; B 4	.1
	Barangay Number/Baran	gay Narne			·				
	Type of Source	ce		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	1/ Total Number of Source		#						
	Implementation								
	2/ Government Agency		#						
	3/ Private		#]		
	Usage								
=	4/ Drinking		#						
aţi.	5/ Washing/Bathing	:]	#						-
General Information	6/ Gardening		#						•
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2	8/ Industrial	· · · · · · · · · · · · · · · · · · ·	#					•	•
Ě	Water Quality		_						_
O	9/ High Iron/Manganese Cor	itent :	#						-
	10/ High Chloride Content	1	ø			•			
	11/ Turbidity/Color/Smell		#						
	Production				-				
	12 Less/No Water in dry seas	on	#						
	13/ Usable through the year		#						
	Technical						!		
	14/ Diameter < 100 mm (4")		#		les la Ge	310 Av.	a state of		Yak axis
	15/ Diameter >= 100 mm (4")		#	346.6	2.2.4	1000000	\$ 10.7672	40.47.58.18	1247124
۶	16/ SWL < 5 m below ground		#			CO ORDER MADELE	LESTEM DELICIENTS		
ğ	17/ SWL >= 5 m below groun							••	
Well Information	18/ Specific Cap. < 3 m³/hr/m		#	7 5 00 000	Net Settle				THE PARTY
Ē	19/ Specific Cap. >= 3 m ³ /ha/		#	7842 774		Sec. Linky the	Fig. Co.		
₹	20/ B-Value < 1,000 s/m ³	····	*		7.44	بمطبع		***	(1)
	21/ B-Value < 1,000 s/m3		 M				111111111111111111111111111111111111111		多流污秽
	22/ C-Value < 60,000 s ² m ⁶ (V	Vell Loce Const.)	#				7.20		
٠.	23/ C-Value >= 60,000 s ² m ⁶	CH EXIST COURT				- 2	20.0		
	Technical								
	24/ T-Value < 0.001 m²/s		#	Y-18-5-12	er o andro	1385 SEARCE	a gaeraal	a program	
	$25/ \text{ T-Value} >= 0.001 \text{ m}^2/\text{s}$			Mary or or	e protective	ON EN	337	in the said	表示语音
ž	26/ S-Value < 0.01	· · - · · · · · · · · · · · · ·		aberray.	THE THE SAME		***	the state	≠av±s÷¢
mat	27/ S-Value >= 0.01	· · · • · · · · · · · · · · · · · · · ·	7	Tire in	-			44年7年	计划设置
Ē	Geology		_	AN ANG SA	5.00	(*******		neorogi.	NEW TEE
quifer Information	28/ Alluvial Formation			38/A 27/3					
ă,	29/ Volcanic Formation		-				2.6		
\$	30/ Limestone Formation					2332		TAKEN MEN	
	31/ Sandstone Formation					thirth-		An Service	Harring H
	32/ Other Sediment Formation			100	and w	15 15 16 16	6.83 6.63	or Ami	alegative.
	Technical		ř		and its	EXM SIG			2.3(13/4)
	33/ Minimum Yield < 10 m ³ /			 -		· · · · · · · · · · · · · · · · · · ·	 		
ó			*			<u>.</u>			
Spring Into.	34/ Minimum Yield >= 10 in	/8	*	ļ. —	ļ. 	 	 		
č	Other						ļ		
Š	35/ Tapped Using Gravity		#	1	:				
	36/ Undeveloped Spring		#			} = -			-
	37/ Untapped Spring		#	<u> </u>		: The state of the state of th			

LEGEND: 1 - Specify figure



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Content: Water Sources - Untapped S		ion	Page No.:
Data Collection Level: Barangay	Mun. No.:	والمنطقة بالمراج والمناوية والمراجعة	Date:
Region Number:	Mun. Nam	<u>e:</u>	Filename: h2o-res.xls
Prov. No.:	Brgy, No.	<u> </u>	Shtname: (B) Spring
Prov. Name:	Brgy. Nam	e:	Form no.: B 4.2
Description of Information	Number		Data
Owner of the Untapped Spring Site			
Production during dry Season (Liter/mir			
Distance from the spring source to entra of the service area.	ince		
Number of Households in the service an			
Elevation Difference between the spring source and the service area ensuring gra	vity		
SKETCH (Location of Spring, Service	ce and Transmi	ssion Route)	
		•	
	.*		
	• • •	•	
:			

Content: Water Sources - Well Information	n			Page No	•	
Data Collection Level: Barangay	Mun. No.:			Date:		
Region Number:	Mun. Nam	e:		Filename	: h2o-res	.xis
Prov. No.:	Brgy. No.			Shtname]
Prov. Name:	Brgy. Nam	C:		Form no	: B 4.3	J. 2 2.
Description of Information	Number		Da	ta		
Owner of the Well		MANAGEM AND				
Well Depth	Marmor Sewinson					
Water Level			······································	LA AAA A CARRESTE ARE		
Use	y	·	 	<u> </u>		
Abstract			· 			
Water Quality					ana (lake ankan katalahak da sahi	
Production				:		renenad
Year Constructed					·	
Number of Household						
SKETCH (Location of Well, Service and	Transmissi	on Route)				
			•		•	
	•					
						į
		•		•		į
						į
					•	

5. WATER SUPPLY SYSTEMS

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Content: WATER SUPPL		Date:		Page:			name:h20supp.x
Data Collection Level: Sys	tem	Prov. No.:		Mun. No		ianie:(S)Leve	
	Province Name:			Mun, Na	ıme:	For	m No.: S 5.1.1
INFO. GROUP	INFO D	ESCRIPTION		CODE		DATA	
· · · · · · · · · · · · · · · · · · ·	2/ Identification (Source	No.)		#	l		
System Identification	3/ Name/Owner of Syst			ch		 	
	4/ Coordinates Scheme			#			
	5/ Barangay a			#			
	6/ Barangay b			#		·····	
System Coverage	7/ Barangay c	·		#			
System Corunge	8/ Barangay d			#			· · · · · · · · · · · · · · · · · · ·
	9/ Barangay e			#			
	10/Barangay f			Ħ			
	11/ Construction Year			#			
	12/ Population in Service			#			
Original Design	13/ No. of Households	in Service Area		#			
Assumption	14/ Rural Pop. Served b			Ħ			
	15/ Urban Pop. Served I			#			
Fill in: 14 -15 or 16-17	16/ No. of Rural HH Se			#			
	17/ No. of Urban HH S		nal Faucets	#			
· · · · · · · · · · · · · · · · · · ·	18/ Number of Commu	nal Faucets		#			
	19/ Year of Update			#			
	20/ Pop. in Service Area			#			:
Actual System	21/ No. of Households			#	L		
Including Extension	22/ Rural Pop. Served b			#			
	23/ Urban Pop. Served I			#	 	~~~~~~~~~~~	· · · · · · · · · · · · · · · · · · ·
Fill in: 22-23 or 24-25	24/ No. of Rural IIII Se			#		·	
	25/ No. of Urban IIII S		nal Faucets	#			
	26/ Number of Commun	nal Faucets	·	#		 	
Water Sources	27/ Type of Source					 	
	28/ Source Capacity		(m³/h)	#		:	
	29/ Length of Transmis		(m)	#		·	
	30/ Length of Distributi		(m)	#			
Distribution System	31/ Number of Reservo			#		 -	
	32/ Total Volume of Re		(m³)	#			
	33/ No. of Meterod Cor			#	·		
	34/ No. of Unmetered C	ommunal Fauce		#			
	35/ Supply Period		(pas/q)	#	क्ट्रायम् अध्यक्ष	লা কৰি ব্যৱস্থা হৈ বুলাকৰ	iga garanasa bar
	Dirty Water 36/a) Everyday			#		<u> Named Di</u>	NAME OF STREET
,	37/b) Once a Week			##			
	38/c) Once a Month			# #			
	39' d) Occasionally			#	·		
	Taste / Smell	· · · · · · · · · · · · · · · · · · ·		 -	MACHEN AND A		
4	40/ a) Good Taste			#		شمست سنندف	أتفعم بالندمات بلح
	41/b) Salty Taste		·····	#	 		
Service Level	42/c) Woody Taste		·	#	!		
during	43/d) Metallic Taste	······································		#	i		
Dry Season	44/ e) Others			ij.	1		
	Supply Interruptk	on .		† — — —			
	45/ - Power Failure		(times month)	#	غاد منافق الماسية الماسية		
,	46/ - Pump Breakdown		(times/month)	#	1		
	47/ - Pipe Burst		(times month)	#			
	48' - Other		(times month)	#	1		
	Water Pressure			T			
	49/ - No. of Faucets w.	. Adoq. Pres.	(% of total)	#			***********
	50' - No. of Faucets w		(% of total)		1		





Content: WATER SHP	PLY - Level II System)ate:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Page:		Filename: h20supp.x
Data Collection Level: S		rov. No.:		Mun No.	;	Shiname (S) Level II P2-2
Region No.:	Province Name:			Mun Na	ne:	Form No.: S 5.1.2
INFO. GROUP		DESCRIPTION		CODE		DATA
	51/ No. of Technical Pro	essionals		#		
	52/ No. of Administrativ			#		
Staff	53/ No. of Collectors			#		the same of the sa
	54/ Total No. of Staff			#	on the Property	
	Who does the repa	ir?				
	55/a) Local Tradesman			х		
Repair	56/b) MEO/CEO			Х		
	57/ c) PEO			X		
	58/ d) DEO			Х "		
	59/ Annual Expenditure	:S	(Pesos/Yr)			
	60/ - Wages		(Pesos/Yr)			
	61/- Fuel, Chemicals, 3	sfaterials	(Pesos/Yr)			
Expenditures	62/ - Transport		(Pesos/Yt)			
	63/ - Repairs		(Pesos/Yr	#		
	64/ - Loan Repayment		(Pesos/Yr)			
	65/ - Others		(Pescs/Yr)			· · · · · · · · · · · · · · · · · · ·
	66/ Consumers Paymen	<u>t</u>	(Pesos/year			
	67/ a) Per pail		(Pesos pail			
Tariff Structure	68 b) Per volume		(Pesos'm ³	<u> </u>		
I and ou between	69/c) Per household		(Pesos/IIII	·		
	70/d) Others			x_	ļ	
	71/ Average Collection	Efficiency				
	72/ Annual Billings			#		
	73/ Billings to P.F. Cor		(Pesos/Yt	<u></u>		
Billing	74/ Billings to H.C. Co		(Pesos/Yr		<u> </u>	
	 75/ Expected Subsidies 		(Pesos/Yr	4	ļ	
	76' Others	. <u> </u>	(Pesos/Yr		 	
	77/ Annual Income		(Pescs/Yr	4		
	78/ - Payment by P.F. C		(Pesos/Yr	4	 	
Revenues	79/ - Payment by H.C.	Consumers	(Pesos/Yr	4	<u> </u>	
	80/ - Subsidies		(Pesos/Yr	4	}	
	81/ - Others		(Pesos/Yt	// //	<u> </u>	



INFO. GROUP System Identification System Coverage System Coverage	Province Name: INFO DESCRIPTION I Identification (Source No.) Name Owner of System Coordinates Scheme Cntr. Municipalities Covered by System Municipality a No. of Cov. Rural Bgys. in Mun. a		Mun. No Mun. Nz CODE # ch	me:	(S)Level III P1-2 Form No.: S 5.2.1 ATA
INFO. GROUP System Identification 4 System Coverage	INFO DESCRIPTION 2/ Identification (Source No.) 3/ Name Owner of System 4/ Coordinates Scheme Cntr. Municipalities Covered by System 5/ Municipality a 5/ No. of Cov. Rural Bgys. in Mun. a		CODE #		
System Identification 3 4 5 6 7 System Coverage 9	2/ Identification (Source No.) 3/ Name Owner of System 4/ Coordinates Scheme Cntr. Municipalities Covered by System 5/ Municipality a 6/ No. of Cov. Rural Bgys. in Mun. a		#	D.	ATA
System Identification 3 4 5 6 8 System Coverage 9	8/ Name Owner of System 8/ Coordinates Scheme Cntr. Municipalities Covered by System 5/ Municipality a 6/ No. of Cov. Rural Bgys. in Mun. a				
System Coverage	I/ Coordinates Scheme Cntr. Municipalities Covered by System 5/ Municipality a 5/ No. of Cov. Rural Bgys. in Mun. a		الحاريا		
System Coverage 9	Municipalities Covered by System 5/ Municipality a 5/ No. of Cov. Rural Bgys. in Mun. a				
System Coverage 8	5/ Municipality a 5/ No. of Cov. Rural Bgys. in Mun. a		#	ন <u>উল্লেখ্য উদ্ভিশ্ন কলে স</u> ংস্থান	الكناهن فترمسنا مغساها فالهارة تهزئي فرة
System Coverage 8	5/ No. of Cov. Rural Bgys. in Mun. a				المنسطة أستنا أنافانا
System Coverage [8]			#		
System Coverage 9			#		
system Coverage	7/ No. of Cov. Urban Bgys. in Mun. a B' Municipality b		#		
[1	9/No. of Cov. Rural Bgys. Mun. b		#		
Įį.	10/ No. of Cov. Urban Bgys. Man. b		#		
	II/ Municipality e		#		
	12/ No. of Cov. Rural Bgys. Mun. c				·
	3/ No. of Cov. Urban Bgys. Mun. c		#	· · · · · · · · · · · · · · · · · · ·	
	14' Construction Year		#		
ļī.	5/ Size of Service Area	(ha)	#		
	6/ Population in Service Area		#	The state of the s	THE PARTY OF THE P
1	17/ Households in Service Area		#		
Ī	18/ Area with Level III Services	(ha)	#		
	19/ Area with Level II Services	(ha)	#		
<u></u>	20/ Area with Level I Services	(ts)	#	ammana mananan manan	
	21/ Area with No Services	(ha)	#		
	22/ Rural Pop. with Level III Services		#		
	23/ Urban Pop, with Level III Services		#		
	24/ Population with Level II Services		#		
	25/ Population with Level 1 Services		#		
	26/ Population with No Services		#		····
	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		#		
· -	32/ House Connections		#	· · · · · · · · · · · · · · · · · · ·	
	33/ Population per House Connection 34/ Households per House Connection		#		
	35/ Communal Faucets		#		
	36/ Population per Communal Faucets		#		
<u>-</u>	37/ Households per Communal Faucets		"		
	38/ Year of Update		#		
	39/ Size of Service Area	(hs)	#		
	40/ Population in Service Area	, so,	#		
· 7	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)	#		***
	46' Rural Pop. with Level III Services		#		zane menentika kelikiliki (KK)
	47/ Urban Pop. with Level III Services		#		
Including Extension 4	48/ Population with Level II Services		#		
[4	49/ Population with Level 1 Services		#		
	50/. Population with No Services		#		
[3	51/ Rural Households with Level III Services		#		
	52/ Urban Households with Level III Services		#		
	53/ Households with Level II Services		Ħ		
_	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 50/ HB per Communal Faucet	,.	#		



C WATED SUDDI	Y - Level III System Date:		Page:	Filename:h20supp.xls
Data Collection Level: Syst			Mun. No	Shiname (S)Level III P2-4
	Province Name:		Mun. Na	me: Form No.: \$ 5.2.2
INFO. GROUP	INFO DESCRIPTION	*	CODE	DATA
1,tro. Groci	61/Main Source A: (Source Type)	***	#	
	62/ Source No.		#	
		(m³/h)	#	
· !	63/ Source Capacity	(p.s.q)	#	
	64/ Operating Time 65/ Main Source B: (Source Type)	(1339)	#	
	66/-Source No.		#	
		(m³/h)		
1	67/ -Source Capacity 68/ -Operating Time	(hrs/d)		
	69/ Main Source C: (Source Type)	X5232	#	
	70/ -Source No.		Ħ	
	71/-Source Capacity	(m³/h)	#	
	72/-Operating Time	(hrs/d)		
	73/ Main Source D: (Source Type)		1	
ĺ	74/-Source No.			
1	75/ -Source Capacity	(m³/h)	#	
	76/-Operating Time	(hrs/d)		
	77/ Main Source E: (Source Type)		#	
Į.	78/-Source No.		#	
1	79/ -Source Capacity	(m³/h)	#	
Water Sources	80/-Operating Time	(hrs/d)		
* 1	81/ Main Source : F (Source Type)		#	
Į	82/-Source No.	<u> </u>	#	
	83/-Source Capacity	(m³/h	#	
	84/-Operating Time	(hrs/d		
l .	Other Well Sources	<u>\</u>	4	
	85/-Number		#	
	86/ -Total Capacity	(m³/h) #	
	87/-Total Production	(m³/d		
	Other Surface Water Sources			
	88/-Number		#	
1	89/-Total Capacity	(m³/h) #	
	90/-Total Production	(m³/d		
	Other Spring Sources		#	
Į.	91/-Number		#	
	92/-Total Capacity		#	
	93/-Total Production		#	
	Water Production			
	94' Grand Total Production		#	
	Last Year's Production		1	THE STATE OF THE S
1	95/-January	(m³/month		
	96/-Feburary	(m³/month) #	
1	97/-March	(m³/month		:
	98/ -April	(m³/month) #	
1	99/ -May	(m³/month) #	
Production Statistics		(m³/month) #	
- Courter Surrent	101/-July	(m³/month		
1	102/-August	(m³/month		
i	103/-September	(m³/mooth		
	104'-October	(m)/month		
	105/-November	(m³/montl		
1	106/-December	(m³/montl		
	107/Length of Transmission Mains	(u		
Transmission/	108/ Length of Distribution Mains	(n	/ 	
Distribution	109/ Number of Reservoirs		#	
Distribution	110/ Total Volume of Reservoirs	(m) #	
	1			



Content: WATER SUPPL	Y - Level III System Date:	Page:	Filename h20supp.M
Data Collection Level: Sys		Mun. N	o.: Shtname:(S)Level III P3-4
Region No.;	Province Name:	Mun. N	arne: Form No.: S 5.2.3
INFO. GROUP	INFO DESCRIPTION	CODE	DATA
	Dirty Water	#	
	112/a) Everyday		
	113/b) Once a Week	#	
	114/c) Once a Month	#	
	115/d) Occasionally	#	
	Taste / Smx II		
	116/a) Good Taste	#	
	117/b) Salty Taste	#	
Service Level	118/c) Woody Taste	#	
	119/d) Metallic Taste	#	
(Dry Season)	120/e) Others	#	
	Supply Intersuption	 	
	121/ - Power Failure (times/month)	#	
		_	
	123/ - Pipe Burst (times/month)		
	124' - Other (times/month)	#	
	Water Pressure	1	
	125/ - Supply, 2nd floor (% of Total)	-	
	126/ - Supply, Ground floor (% of Total)		
	127/ - Inadequate Pressure (% of Total)	#	
	Domestic H.C. Consumers	1	
	128/ - Number of Metered Connections	#	
	129/ - Consumption (m³/d)	#	
	130/ - Number of Unmetered Connections	#	
	Domestic P.F. Consumers	 	
	L	#	12.03.22.02.02.02.02.02.02.02.02.02.02.02.02.
•	131/ - Number of Metered Public Faucets		
	132/ - Consumption (m³/d)		
	133/ - Number of Unmetered Public Faucets	#	
	Institutional Consumera		
O	134' - Number of Metered Connections	#	
Consumer	135/ - Consumption (m³/d)	#	A CONTRACTOR OF THE PROPERTY O
4	136/ - Number of Unmetered Connections	#	
	Commercial Consumers	 	
	137/ - Number of Metered Connections	#	
	139/ - Number of Unmetered Connections	#	
	Industrial Consumers		
	140/ - Number of Metered Connections	#	المراجعة والمراجعة والمراج
	141/ - Consumption (m³/d	#	<u> </u>
	142/ - Number of Unmetered Connections	#	The second secon
	143/ No. of Technical Professionals	#	
	144/ No. of Operators	#	
Car As	145/ No. of Technical Support Staff	H	
Staff	146/ No. of Administrative Staff	#	
	147/ No. of Collectors	#	
100	148/ Total No. of Staff	#	
· · · · · · · · · · · · · · · · · · ·			
,	149/ Metered Consumption (m³/year		
	150/ -January (m³/morth		
	151/-Feburary (m³/month) #	
	152/-March (m³/month) #	
	153/-April (m³/month		
4	154/-May (m³/month		
Consumption	155/-June (m³/month		_
•	156/-July (m³/month		
	157/-August (m³/month) #	
	158/-September (m³/month	#	
	159/-October (m³/month		
•			
	160/-November (m³/month		
	161/-December (m³/month		
	162/ Last Year's Consumption (m³/year		







Content: WATER SUPPL	Y - Level III System	Date:		Page:	Filename h20supp.xls
Data Collection Level: Syst		Prov. No.:		Mun. No	
Region No.:	Province Name:			Mun. Na	me: Form No.: \$ 5.2.4
INFO. GROUP		DESCRIPTION	laterialis en estata e [CODE	DATA
1110.0001			(Pesos/m³)	#	
	163/ - Domestic				
Consumption	164/ - Institutional		(Pesos/m³)	#	
(continued)	165/ - Commercial		(Pesos/m²)	# .	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	166/ - Industrial		(Pesos'm')	#	
	167/ - Others		(m³/yr)	#	The second state of the se
	168/ Annual Expendit	ures	(Pesos 'y1)	#	
	169/ - Wages		(Pesos/yt)	#	
	170/ - Fuel, Chem., M	aterials	(Pesos/yr)	#	
Expenditures	171/ - Transport		(Pesos yr)	#	
	172/ Repairs		(Pesos/yr)		
	173/ - Loan Repayme	m 1	(Pesos yr)		
	174/ Others		(Pesos/y1)	#	
	Residential Cons				
	175/0-10	m³/month	(Pesos'm³)	#	
	176/11 - 20	m³/month	(Pesos/m³)	#	
	177/ 21 - 30	m³/month	(Pesos/m³)	#	<u> </u>
	178/ 31 - 40	m³/month	(Pesos/m³)	#	
	179/41 & Up	m³/month	(Pesos m³)	#	
l i	180/ Flat Rate per Mo	orth	. (Pesos/m³)	#	
	Institutional Con		. (3500012)	 -	785703303223V3043M9797FFFFF
	181/0-10	m²/month	(Pesos'm³)	#	<u> </u>
	182/11 - 20	m³/month	(Peses/m³)	# -	
·					
	183/21 - 30	m³/month	(Pesos'm')	#	
1	184/31 - 40	m³/month	(Pesos'm')	#	
1	185/41 & Up	m³/morth	(Pesos m')	#	
•	186/ Flat Rate per Mo	osth	(Pesos m³)	#	
Tariff Structure	Commercial Coa	sumption:		.]	
	187/0 - 10	m³/month	(Pesos m')	#	
	188/11 - 20	m³/month	(Pesos m')	#	L
	189/21 - 30	m³/mouth	(Pesos/m³)	#	
	190/31 - 40	m³/mooth	(Pesos/m³)	#	
	191/41 & Up	m³/month	(Pesos m³)	#	
	192/ Flat Rate per Mo		(Pesos/m³)	" -	<u> </u>
1	Industrial Consu		71 0000 111	 	
		m ¹ /month	(Pesos/m³)	#	
	193/0 - 10				
	194/11 - 20	m³/month	(Pesos/m²)		
	195/21 - 30	m³/month	(Pesos/m ³)		
· ·	196/31 - 40	m³/month	(Pesos/m ³)	#	
Ì	197/41 & Up	m³/month	(Peros/m ¹)		<u></u>
	198/ Flat Rate per Me	onth	(Pesos/m ³)		
	199/ Avg. Collection	Efficiency	(%)		<u> </u>
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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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6 ENVIRONMENTAL SANITATION DATA

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PROVINCIAL WATER SUPPLY,	SEWERAGE AND SANITATION SECTOR PLAN

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN Filename: sanit.xls Content: Environment Sanitation - Municipal Solid Waste Collection and Disposal Date: Shiname: (B) SolidWaste Data Collection Level: Barangay Prov. No. : Mun. No. : Form No.: B 6.5 Mun. Name: Page No. Region Number: Prov. Name: Without Service With Municipal Service Number of HH by Manner of Disposal Disposal No. of HHs No Number of Collections Trucks NEDA No. of HHs Geo-Dumping (Land and Water) Open Dump Trucks Secred by Barangay Closed Type Served by grahic Total Units Burying Sanitary Landfill Trucks Open Dump Site Manicipal Total



7. INVESTMENT DATA



PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Notes:

1) IRA: Internal Revenue Abottnent

2) CDF: Countryside Development Fund

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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1) T.A.: Internal Revenoe Allotment
2) CDF: Countrysido Development Fund

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Note: 2/Type of Project - New Construction. Expansion/Extension or Rehabilisation(Please attach a brief project description with this form)
3.9 Phase of Project - Either say or combination of Master Plan (MP) Feasibility (Study (FIS), Detailed Design (D/D) and Construction (Const.)
4. Project Location - Name of Municipality (If available, please study is into Cheroficiary Detruggiys)

8. INSTITUTIONAL DATA

Institutional Data Survey October 1994

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Province:

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
ė.	Sector Monitoring		
مُ	Project Identification		
ບໍ	Priority Determination		
ņ	d. Budget Allocation		

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·	f.	Detailed Design	elektrische gegen generalische Ausbert gegen geg
	cis	Community Mobilization	
	ૃ પ	Bid Documents Preparation	
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	<i>ب</i> د بد	Drilling	
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	Ħ	Rehabilitation	
	d.	Health & Hygiene Education	
	ö	Operation & Maintenance	
	ച്ച്	Cost Recovery Policy. Collection of Fees.	
	ġ.	Spare Parts Sourcing	

ı.	Technical Training	
	Management Training	
ن	Preventive Maintenance	
r i	Minor Repairs	
<i>;</i>	Major Repairs	
*	Water Quality Testing	
×.	Project Monitoring	

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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? ω.

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

Mark with * if done by administration.

Community (or Beneficiary) Participation in Financing.

4

What are the experiences with projects which require a financial contribution from the beneficiaries? Are there successful and unsuccessful experiences? (L < v, J) (Z) તાં

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? ò

Table 5.3: Non-Government Organizations. List down the NGOs who deal with water, environment or health activities. Enclose brief description, including contact person and address, of the NGO and of their project/s, if available.

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

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Table 5.5: Existing Training Institutes (with faculty) who can be tapped for future sector management and technical training activities. This may include technical loss interest and potentials for collaboration in future callyocational 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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Name of Institute (include name of Private or contact, position, address, tel.) Public?	Private or Public?	Year Es-	Relevant Courses or Workshops Conducted	How many regular teaching staff (mgmt and rechnical)?	Brief description of facilities	Interested in future collaboration?
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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.)

	Location of	Primary objective	Year established	Year established Example of current projects or activities
tion, address, tel.)	activities			

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? เร่

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

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? o;

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

(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

- 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.
- 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.
- 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

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;
 - 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.
- 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 Associations (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 I... 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.

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 I - no. of Level I 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 1 - 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

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.
- 3. 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

- 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.