

INTRODUCTION
 The Provincial Plan for the Province of Abra
 1.3.2 Outline of the Report

Table 1.3.1 List of the Report/Data/Information/Materials Collected (1/2)

				Rela	Related Subjects	bjects	Remarks
ż	Tide	Y ear	rrepared by	WS RD SE CD SE	SE C		0
	TAWCAND RECITATIONS				-+		
<u> </u> -	The four memory Criter of 1901	1661	Congress of the Phil.		×		
- -	and the source of the Dailing Decidential Decree No. 856	1976	HOCI		×		
		Jul-91	NLUC,NEDA			×	
m	National Handbook on Land June water Assources						
	DAALADIACO "IVAUUUA ACTO	1991	OSN			×	
-	THE STREET IN LOUDENING STREET	8	at SN		>	*	
2	1992 Philippine Stanstical Yearbook	700	1000			, , ,	
9	1992 Philippine Yearbook	Dec-52	NSO		╉		
4	National Health Survey	1 <u>9</u> 2	POH		×		
	STATISTICS - Provincial Level				╉		
<u> </u> -	1990 Census of Population and Housing Report No. 3-64 D: Socio-Economic and Demographic	1990			+		
	Characteristics of Abra	·				-	
<b> </b>	Socio-Economic Province of Abra						
	INATIONAL DEVELOPMENT PLAN/SECTOR PLAN	~~~					
<u> </u> -	Water Currence and Saniration Master Plan of the Philippines 1988-2000.	1988	NEDA	×	×		
-  ^	N. and. Supply: Summaunty Plan 1003-2002	Oct-92	Nat'l. Land Use Com.			×	
* •	Transmiss 1.17 months for the form Study	Aug-93	WORLD BANK	XX	×	-	Working Papers
	running manager Danser 1087-1607	1993	NEDA			×	
*	rnuppure Acvecontert Account 2007-222	Oct-93	NJS/Basic Team		<u> </u>	×	Final Report
Ţ	regect benefit www.mg.mg.me.comment in Manifa Volume 2	Jun-92	JICA				Main Report
0	DEBOY TOT OF CHOURD WATCH DEVELOPMENT IN A MALLA VOLUME 2.	Mar-93	DILG-PMO			x	Training Manual 2nd Edition
- •	The France Supply Screage are Denier Sustannihility Promin for Rural Water Supply Project.	Mar-92	OECF	x			Final Report (Main Report)
•	DUCA Drimer Evalue Version	Sep-92	DILG.DPWH.DOH			×	Second Edition
<u>}</u>	DUSATION AND A CARGINAL TYPACH.	Apr-93	WORLD BANK				x Mission Report
2		Sep-92			×		Training Manual 1st Edition
: :	National Semicary and Action Plan Philippine National Urban Sewerage and Sanitation Strategy and	May-93	World Bank Proj		×		
1	Provide States Project	-	Loan 3242-DH			-	
-	DAC. ACA Otimoral Data			×			
		1992	Sandy Carmeross		×	×	Discussion Paper Series
ľ		6861	OHW		×	×	
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					Relat	Related Subjects	é	
%	True True		Year	Prepared by	WS HD SE CD SE	SE CD	<u> </u>	Xemarks
17	Cuidelines for Planning Community Participation in Water Supply & Sanitation Projects	on Projects.		Anne Whyle		×		
*	Participatory Evaluation : Tools for Managing Change in Water and Sanitation.		Feb-93	Deepa Narayan		×		
2	Community Participation and Hygiene Education on Water Supply and Sanitation (CPHE)	tion (CPHE).	Oct-89	Technical Coop.		×.		-
- - -	Geological Mans of the Phils.			BMCS	×	1	_	
ដ	Philippine Amospheric, Geo-Physical and Astronomical Services Admin. Data			PAG-ASA	×		_	
5		iver Stage.	-	Bureau of Research	×	_		
เม	+		Aug-70	BM.Sandoval & Mamaril	×			
	PROVINCIAL SECTOR PLANDEVELOPMENT PROGRAM				-	-1		
-	Socio Economic Profile - Abra		1994	PPDO		_	×	
2	Annual Report CY 1994		1994	ODdd			×	
٣	Annual Report CY 1994 - Municipality of Pilar		1994	OCIAW			X	
.  4	Provincial Annual Report		1993-94	DCIdd			x	
<b>n</b>	Renort of Revenue		1994	Office of the Treasurer			×	
1	Feasibility Study of Bangued W.D.		1991	LWUA	×			
-	Program of Work: Municipalities of Dolores. Tayum and Pidigan W.D.		1991-93	LWUA	×			
8	Administrative Map (1:150.000) for the Province of Abra			NAMRIA	*	_	_	
٥	(Topographic Map (1:50.000) for the Province of Abra			NAMRIA	×			
2	Rapid Assessment of Water Supply Sources for the Province of Abra			NWRB	×	_		
=	<b>—</b>	-		NWRB	×	_		
2	<b>-</b>			BMGS	×			
ũ	E			BMGS	×			
14			·	BMGS	×			
15	Philippine Water Resources Summary Data - Abra			DPWH/BRS	×			
16	Preliminary Engineering Studies, Abra River Basin			Central Luzon Cagavan	×			
				Valley Authonty				
	OTHER REFERENCES						-	
	Microsoft Windows Version 3.1		1992	Microsoft Corporation			×	User's Manual
4	Microsoft Excel Version 5.0		1994	Microsoft Corporation			×	User's Manual
m	Microsoft Word Version 6.0		1994	Microsoft Corporation			N ×	x  User's Manual

Related Subject : WS Water Supply. HD Hydrogeology. SE Sanitation and Environment, CD Community Development. SE Socio-Economy. O Others

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List of the Report/Data/Information/Materials Collected (2/2)

## 1.4 Acknowledgements

Ladie L.4.1 List of Leison		
Name	Position	Office
r Planning Team:		
1. Tingonong	Provincial Planning & Dev't. Coordinator	Provincial Planning & Dev't. Office
Plurad	Project Dev't. Officer IV	- do -

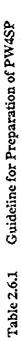
	Name	Position	Office
Provincial Sector Planning Team:	nning Team:		
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2. Ms. Ellen I. Pascua	31a	Asst. Program Manager	- qo -
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4. Mr. Mario V. De Dios	e Dios	Development Management Officer V	- oo -
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6. Ms. Josephine G. Ramos	3, Ramos	Coordinator	- do -

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FOR FUTURE SECTOR DEVELOPMENT	ŭ X				
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2.2 Planning Framework	ў.z С	Sector Arrangements with Reference to National Master Plan and Medium-Term Development Plan	T2.2.1 National Sector Coverage Targets		

PLANNING APPROACH FOR FUTURE SECTOR DEVELOPMENT Planning Principles and Data Management Planning Principles

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						Tables & Figures	
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4	Current Sector Policics and Strategies	<ul> <li>Self-Reliance</li> <li>Integrated Approach</li> <li>Cost Recovery</li> <li>Sustainability</li> <li>Private Sector Participation</li> <li>Water Resources Management</li> </ul>			* .		
N	Major Legislation and Regulations Affecting the Sector	<ul> <li>Local Government Code</li> <li>Water Code of the Philippines</li> <li>Philippine Environmental Code</li> <li>National Drinking Water Standards</li> <li>Plumbing Code of the Philippines</li> <li>Code on Sanitation</li> <li>National Building Code</li> </ul>					
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_]&	Questionnaire form	Table - T, Figure - F					

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		its flow rates, and water quality of typical rivers	T3.2.2	Drainage Areas and Flow Rates of Major Rivers	÷ .	· .		
	Socio-economic Conditions	· · · · · · · · · · · · · · · · · · ·						
3.3.1	Economic Activities and Household Income	<ol> <li>Brief description on major economic activities</li> <li>Discussion on (a) household income level</li> </ol>	F3.3,1	Distribution of Households by Income Class	T3.3.1	Distribution of Households by Income Class	1.2.67	Number of Elementary School, High School
		and (b) occupation	F3.3.2	Population Distribution by Occupation	T3.3.2	Gainful Workers by Occupation Group and Major Industry Group		and Other Served Facilities
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		(2) Discussion on public facilities and services (schools, public markets, bunks and hospitals) by municipality					• · •	
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		(2) Special issues. If any, which affected the present population of the province, i.e., special development and those of Mt. Pinatubo eruption in 1991.	F3.4.1	Previous Population Development of the Province		• • • •		
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		(2) Re-classification of urban and rural areas based on actual condition by PSPT	T3.4.2	Outline of Urban and Rural Areas in the Province		· . · .		
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3.5.1	Morbidity. Mortality and Infant Mortality	<ul> <li>Ten leading causes of morbidity, mortality and infinit mortality and comparison with national level</li> <li>Identification and rank of discusses related to water among the 10 leading causes</li> </ul>	T3.5.1	Number and Rates of Ten Leading Causes of Morbidity, Mortality and Infant Mortality			T3.5.1	Morbidity, Mortality and Infant Mortality by Municipality (Annual Incidence per 100,000 Persons)
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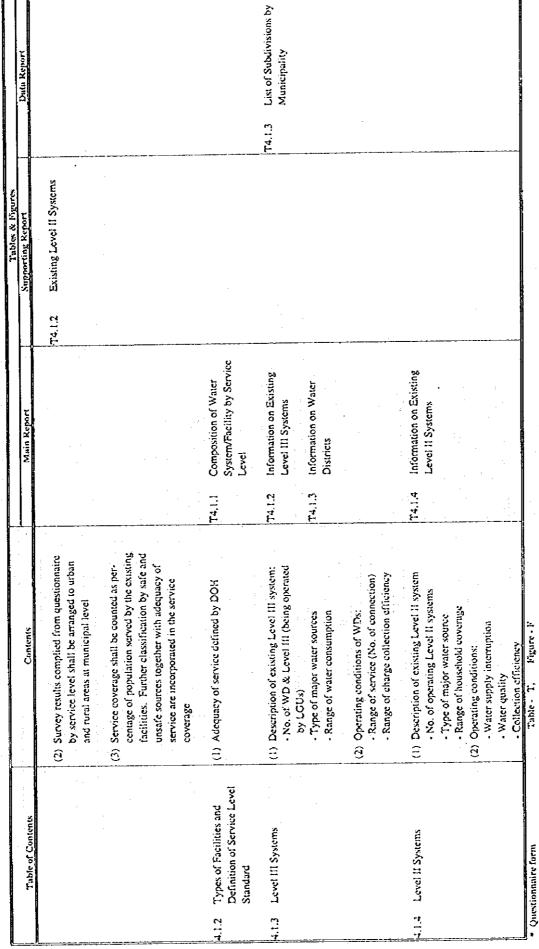
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		charge - Existing classification of rivers in terms of water quality and extent of water pollution					
<u> </u>	3.6.3 Solid Waste Disposal	of water bodics - Evaluation of solid waste collection and disposal	T3.6.1 Municipal Solid Waste Collection and Disposal, and Service Coverage				
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	* Questionnuire form	Table - T. Pigure - F					

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		(2) Problem areas:	<u> </u>		<u> </u>		
		- Needs for rehabilitation and replacement			T4.1.5	Estimation of Unserved	
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4.1.6	Water Supply Service	(1) Criteria of adequate service based on the	T4.1.7	Water Supply Service	T4.16	Estimation of Population	
		national standard		Coverage by Municipality		Covered by Safe and Unsafe	
		· · · · · · · · · · · · · · · · · · ·				Source by Municipality	
		(2) Service coverage (percent of population		Water Supply Coverage			
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		(3) On-going projects by municipality		Service Covrage Map	<u></u>		
2.5	Sanitation and Sewerage						
4.2.1	General	- Brief discussion of government policies/	•				
		guidelines on sanitation and sewerage as					
		spelled out in the Code of Sanitation and					
		NUSSMP					
		<ul> <li>Coverage of the PW4SP (IHH, school toilets</li> </ul>		-			
		and public tolicts)		• .		- 	
; ; ;	Turner of Bandlities and	- MH/DECS classification by continue land			- U	Conduct Construct of	
1		Twos of totlet facilities considered as sub-	<del></del>		i i	Drivers Totler Pacifics	
•	Standard	tary and unsanitary in this sector plan					
	1	<ul> <li>Definition of served and underserved/</li> </ul>		•	F4.2.2	Standard Structure of	
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	<ul> <li>Service coverage (percent of household with sanitary toilet facilities and under- served/unserved in urban and rural area, by municipality</li> </ul>	F4.2.1	Household Tollets, Urban and Rural, 1994 Provincial Service Coverage of Household Tollet Facilities, 1994	· · ·	hold Toilets, by Type, by Municipality, Urban and Rural, 1994		
		F4.2.2	Existing Household Toilets Service Coverage Map				
(2) School and Public Toilets	<ul> <li>No. of School and public toilets by municipality</li> </ul>	T4.2.2	School Toilet Facilities and Service Coverage in 1994				
	<ul> <li>Service coverage (percent of students adequately served by sanitary facilities and percent of public utilities with sanitary facilities)</li> </ul>	T4.2.3	Public Toilet Facilities and Service Coverage in 1994				
(3) On-going Projects	<ul> <li>On-going projects by municipality (service coverage)</li> </ul>	·			<u></u>		
(4) Problem Areas	- Common problems encountered with regards to physical and social standpoints						
4.2.4 Sewerage Facilities	<ul> <li>Presence/absence of sewerage facilities. If none, description of existing condition on seware dispose!</li> </ul>						
	- If present, description of sewerage system						

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Data Kre Sector Performance Sum-mary Report (Provincial and Municipal Levels) Draft Formats for Annual Tables & Figures Supporting Report T12.4.1 Main Report - Manner of follow-up and feed back in plan- Monitoring activities with responsibilities in different administrative levels - Monitoring activities at project level ning and project implementation Contents Figure - 1 Table - T. Evaluation of Plan Implementation and Updating the PW4SP Table of Contents Project Monitoring Sector Monitoring MONITORING Questionnaire form 12.1 General 12.2 12.3 12.4 d

COMPOSITION OF FIGURES AND TABLES BY CHAPTER/SECTION

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## 2.6.2 Data Management

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## 2.6.2.1 QUESTIONNAIRE FORMS

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	1.2 Past Population				M 1.2.1	B 1.2.1		
	-				M 1.2.2	B 1.2.2	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						-99.50 A	
	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				enter e la constante La constante de la constante de	15 C.V.S		1
	3.1 Morbidity and Mortality				M 3.1	B 3.1		
	3.2 Facility and Practitioner	[			M 3.2	B 3.2		
4	WATER SOURCE DATA	0.000						a < i
	4.1 General Information			ante de recentra das	M 4.1	B 4.1		
	4.2 Water Source				M 4.2	B 4.2		
5	WATER SUPPLY SYSTEMS							
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	6.2 School/Public Toilet				M 6.2	8 6.2		
	6.3 Drainage Facility	<b> </b>			M 6.3	8 6.3		
	6.4 Solid Waste Collection and Disposal	<u> </u>			M 6.4	B 6.4		
7	INVESTMENT DATA	2 2						
	7.1 Previous annual Investment	<b>F</b>		P 7.1	Ī	{		
	7.2 Planned Annual Investment			P 7,2		1	l	

#### STRUCTURE OF QUESTIONNAIRE

Note: Barangay level questionnaire forms are for reference purpose only

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# 1. SOCIO-ECONOMIC DATA

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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				<b>PERSONS BY</b>	PERSONS BY OCCUPATION CATEGORY	CATEGORY		·
NEDA Geographic Code	Barangay	Professional, Technical & Related Workers	Administrative, Executive and Managerial	Sales Worker	Service Worker	Agricultural , Animal Husbendry & Forestry workers, Fisherman and Hunters	Production & related workers, Transport Equipment Operators and Laborers	Occupation not adequately defined or reported
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#### 3. HEALTH DATA

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toy. Manber:		Mun Number:			O Morbidity and	Mortahty
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Cause Group Diseases of	Discuse No.	Name of Diseases (Group)	Diseases	Morbidity	Mortality	Infant Mortabiy
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Infective	A.01	2-4/ Typhoid Parathyphoid				
and	A.02	5-7/ Dysentary 8-10/ Intestisal Parasites	- <u></u>			
Parasitic	A.03 A.04	11-13/ Diacrbea	<u>x</u>		·	
(001-136)	A.04	14-16/ Tuberculosis			· · · · · · · · · · · · · · · · · · ·	
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	A.08	23-25/ Throat/Ear/Nose		1		
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	A.12	35-37/ Varicella, Chickenpox		[	<u> </u>	
	A.13	38-40 Measles		<b> </b>	<u> </u>	
	A.14	41-43/ Dengue Fever	x	<b> </b>	1	
_ •	A.15	41-46/ Viral Hepaticis	<u>x</u>		.}	
	A.16	47-49/ Malaria	<u> </u>	<b></b>	·]	
	A.17	50-52/ Schistosomiasis	<u>x</u>		┟╌╴╴╸┤	· · · · · ·
1	A.18	53-55/ Filmiasis	X			
:	A 19	56-58/ Venerial Discases			·   ·····	
	A 20	59-61/ Other Bacter / Viral Dis.			+	
Neoplasms	B.01	62-64/ Mafignani Neoplasme	-	· · · · · · · · · · · · · · · · · · ·		
(140-239)	B.02	65-67/ Leukemia				
Endocrine, Nutritional	C.01	68-70/ Diabetes Mellitus 71-73/ Nutritional Deficiencies		· · · · · · · · · · · · · · · · · · ·		
& Metabolic	C.02					
(250-279)	C.03	74-76/ Endocrine Disorder		·		
Blood & Blood	D.01	77-79/ Anemias				· · ·
Forming Organs (280-289)	E.01					· · · · · · · · ·
Mental Disorder (290-319)	F.01	\$0-82/ Meningitis				
Nervous System and	F.02	83-85/ Nervous System		-		
Sense Organs (320-389) Circulatory	G.01	86-18' Heart Diseases				10 J. N
Systems (390-459)	G.02	89-91/ Vascular Diseases			·	
3/38/35 (37/477)	HOI	92-94/ Bronchitis				
Respiratory	H02	95-97/ Prevanonia				
Systems	HO3	98-100/ influenza			1	
(460-519)	H.04	101-103/ Obstructive Pulmonary				
	H.05	104-106/ ARI				
	LOI	107-109/ Appendicities				
Digestive System	L02	110-112/ Gastroens. Colitis				
(\$20-579)	L03	113-115/ Chronic Liver Disease				
	L04	116-118/ Other Diges. Diseases				
Genito-Urinary	1.01	119-121/ Kidney/ Nephritis		<u>  </u>		· · · · · ·
System (580-629)	3.02	122-124/ Urinary Infections		- <b> </b>		
Complication of Programcy &	K.01	125-127/ Prematurity		ł	<b>I</b> .	
the Puerperium (630-676)					<u> </u>	
Skin & Subcutaneous	<u>L.01</u>	128-130' Skin Diseases	<u>x</u>	· [	·{	
Tissue (680-709)	L.02	131-133/ Scabics			╋━━───┤	
Musculaoskeletal & Connective Tissue (710-739)	MOI	134-136/ Arthrop., Rheusnatisra				·
Congenital Anomalies (740-	N.01	137-139/ Congenital Anomalies		1.1		
759)		· · · · · · · · · · · · · · · · · · ·			·	· · ···
o	P.01	140-142/ Bith Trauma			• [ ]	
Certain Causes of Prenatal	P.02 P.03	143-145/ Birth Injuries & Difficult Labor		-		
Morbinty & Mortality (760, 229)	P.03 P.04	146-148/ Resp. Fetus/Newborn 159-151/ Other Prenatal Causes			·	
(760-779) Symptoms & Lil-octined	Q.01	152-154 Sentity	1		1	
Symptoms at in-octines Condition (180-199)	Q.02	155-157/ IB-Defined Condition	t t	1	1	
Accidents, Poisoning	ROI	158-160' Burns		1	1	
& Viokake	R.02	161-163' Suffee. Foreign Body		-		
THE TREE TREE	R.03	164-166/ Other Accidents	-1	1	· · · · · · · · · · · · · · · · · · ·	

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Content: Hea	alth - Facility and Pra	Date:	Filename: health.xl					
Data Collect	ion Level: Munkipal	Prov. No.:	(M)FacilityPraction					
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ontent: Health - Morbidity an	d Mortality		Page Number:						
sta Collection Level: Baranga		Region Number:		Filename: heal					
ov. Number:	Mon. Non	aber: Bgy. Number:		Sheetname: (B) Morbidity and Mortabry					
rov. Name:	Mun. Nan			Form Number: B 3.1					
		I I I I I I I I I I I I I I I I I I I	[	Number of Cases					
Cause Group	Disease	Name of Diseases	Water Related	· · · · · · · · · · · · · · · · · · ·	Int				
Diseases of:	No.	(Group)	Diseases	Morbidity	Mortality				
						Mortality			
Infective	A.01	2-4/ Typhoid Parathyphoid	X	<b> _</b>					
and	A.02	5-1/ Dysentary	X		I				
Parasitic	A.03	8-10/ Intestinal Parasites	x						
(001-136)	A.01	11-13/ Diantea	X	1					
(,	A.05	14-16/ Tuberculosis		1					
	A.06	17-19/ Conjunctivities	x	1					
	A.07	20-22/ Whooping Cough							
	1								
	A.08	23-25/ Throat Ear Nose		· · · · · · · · · · · · · · · · · · ·	<b>↓</b>				
	A.09	26-28/ Tetanus			· · · · · ·				
	A.10	29-31/ Septicemia	· · · · ·	Ļ					
	All	32-34/ Cholera	x						
	A.12	35-37/ Varicella, Chickenpox			1				
	A13	38-40' Measles							
	A14	41-43' Dengue Fever	x		1				
	AIS		<u>x</u>	+	1				
		44-46/ Viral Hepatitis	<u> </u>		+				
	A.16	47-49/ Malaria		<b>{</b>	<b></b>				
	A17	50-52/ Schistosomiasis	<u>X</u>	<b>!</b>	1	<b>.</b>			
	A.18	53-55/ Filariasis	<u>x</u>	J	ļ	ļ			
	A 19	56-58/ Venerial Diseases			<u> </u>				
	A.20	59-61/ Other Bacter / Viral Dis.			ſ				
Nooplasma	B.01	62-64/ Malignant Neoplasma							
(140-239)	B.02	65-61/ Leukemia		<b>1</b>		· · · · · · · -			
Endocrine, Nutritional	C.01	68-70/ Diabetes Mellitus	····						
· · ·		71-73/ Nutritional Deficiencies							
& Metabolic	C.02		·						
(250-279)	C.03	74-76/ Endocrine Disorder							
Blood & Blood	D.01	11-79/ Anemias				· ·			
Forming Organs (280-289)						······			
Mental Disorder (790-319)	E.01			· · · · · · · · · · · · · · · · · · ·					
Nervous System and	F.01	80-82/ Meningitis							
Sense Organs (320-389)	F.02	83-85/ Nervous System	· · · · · ·	· · · ·					
Circulatory	G.01	85-88/ Heart Diseases	· · · · · · · · · · · · · · · · · · ·						
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Systems (390-459)	G.02	89-91/ Vascular Diseases	·	·					
	<u>H.01</u>	92-94/ Broochius			· · · · · · · · · · · · · · · · · · ·				
Respiratory	<u>H02</u>	95-97/ Prieumonia				· ·····			
Systems	H03	98-100/ Influenza							
(460-519)	HL04	101-103/ Obstructive Pulmonary	1. A. A. A.						
	H.05	104-106' ARJ		[					
	L01	107-109/ Appendicitis	·····	1		<u> </u>			
Digestive System	L02	110-112/ Gastroent, Cobus	•	1	1 ··· · · · · · · · · · · · · · · · · ·				
(\$20-579)	L03	113-115/ Chronic Liver Disease		<b> </b>	1				
(250-212)	L03			· · · · · · · ·	h				
		116-118/ Other Diges, Diseases		{	<u>+</u>				
Genito-Urinary	J.01	119-121/ Kidney/ Nephritis			<b> </b>				
System (580-629)	3.02	122-124/ Univery Infections							
Complication of Pregnancy & the Puerperium (630-676)	KOI	125-127/ Prematurity							
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Shin & Subcutancous	L.01	128-130/ Skin Diseases	<u> </u>	I	ł	L			
Tissue (680-709)	L.02	131-133/ Scabies	<u> </u>		L				
Viusculaoskeietal & Connective Tissue (710-739)	M01	134-136/ Arthcop., Rhoumatism							
orgenital Anomalies (740	N.01	137-139/ Congenital Anomalies	· · · · · · · · · · · · · · · · · · ·	<u> </u>					
759)	P.01	140-142/ Birth Trauma				<b></b>			
Conta Commente Comment		140-149 Birth Injuries & Difficult Labor			ł				
Certain Causes of Prenatal	P.02	143-143/ Davi Injuries & Duticuit Labor	}						
Morbitity & Mortality	P.03	145-148 Resp. Fetus Newborn							
(160-179)	P.04	159-151/ Other Prenatal Catises		<u> </u>	L	ļ			
Symptoms & III-orfined	Q.01	152-154' Sensity			l	ļ			
Condition (780-799)	Q.02	155-157/ El-Defined Conditon	1	I					
Accidents, Poisoring	R.01	158-160/ Burns							
& Violence	R.02	161-163 Suffee. Foreign Body	I	r		· · · ·			
(800-999)	R.03	164-166/ Other Accidents		1	+				

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	hth - Facility and Prac	أحمد حتضمو وعود	Date:		Page No.		Filename: I			
Data Collecti	and the second	Prov. No.: Mun. N				Shtname:	(B)FacilityP			
Region No. : Prov. Name:				Mun. Nan			Form No. :	B 3.2		
NEDA		Nun	ber of Faci	ilities	lities Number of Me			dical Practioners		
Geographic	Barangay	Hospital	RHU	BHS	Doctors	Nurses	Midwives Dentis			
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# 4. WATER SOURCE DATA

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onte	nt: Water Sources . General Information		Page:		Date:		Filename: h2	
	Collection Level: Municipal		Prov. No.			Shtname: (	(M) General Informati	
	n Number:		Prov. Name				Form No	.: M 4.1
	Municipal Number/Municipal Name Type of Source		Shallow	Deep Well	Spring	Shallow	Deep Well	Sprin
<i></i>	The second s		Well	i anna an a		Well		-
	1/ Total Number of Source	#	<b></b>	<u> </u>				
	Implementation		<b> </b>	1			1	
	2/ Government Agency	*			<b>-</b>			•••••
	3/ Private	#_					·····	·
	Usage			<u></u>				
c	4/ Drinking	#	<b>{</b>	·				
atio	5/ Washing/Bathing			<u> </u>				
Ë	6/ Gardening	#	·				- <i></i>	
Info	7/ Irrigation	*		i +				
1	8/ Industrial	*	ļ			<b></b>		
General Information	Water Quality		ļ	<u> </u>	<u> </u>	<b></b>		
0	9/ High Iron/Manganese Content	#		! 	}			
	10/ High Chloride Content	#		; -}	•			
	11/ Turbidity/Color/Smell	#	ļ	ļ	·	ļ		
۰.	Production		ļ	.Į	ļ			
	12/ Less/No Water in dry season	#	<u> </u>	!	<u>.</u>	· · · · · · · · · · · · · · · · · · ·		
	137 Usable through the year	#			; 			
	Technical			1	1 10	100988	i Berezeberez	N 2 2 1 2 4
	14/ Diameter < 100 mm (4")	*		- e sa de	1.2440	1444	名音音音	$\tilde{\mathbf{x}} = \tilde{\mathbf{x}}$
÷.,	15/ Diameter >= 100 mm (4")	#	10 M 1	Sector.		1203.03	ALC: UNK	er ze s
ĕ	16/ SWL < 5 m below ground	#		.i	1 •		1	
Well Information	17/ SWL >= 5 m below ground	#		l				1878235
orn.	18/ Specific Capacity < 3 m <sup>3</sup> /tu/m	#			64 A.A.			1. A.
Tu l	19/ Specific Capacity >= 3 m <sup>3</sup> /hr/m	#					中方也并	
Vel	20/ B-Value < 1.000 s/m <sup>3</sup>	#					<b>新山城</b> (4)	$2^{2-1}$
-	21/ B-Value < 1,000 s/m <sup>3</sup>	#				a suc		266
	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	#	19.20		in an		He servi	
	23/ C-Value >= 60,000 s <sup>2</sup> m <sup>6</sup>	#			a cast of		1.9.411	sea.et
	Technical						1	
	24/ T-Value < 0.001 m <sup>2</sup> /s	#					增加多加	
	25/ T-Value >= 0.001 m <sup>2</sup> /s	#						行用的
tion	26/ S-Value < 0.01						the same	185
	27/ S-Value >= 0.01		1000				科秘法	经金店
Lon Lon	Geology	-  -					1	1
Aquifer Informa	28/ Alluvial Formation							國家
uife	29/ Volcanic Formation							
Aq	30/ Limestone Formation	-					The states of the	
	31/ Sandstone Formation					Kara a		推到消
	32/ Other Sediment Formation		1987					1533
	Technical				1			1
	33/ Minimum Yield < 10 m <sup>3</sup> /h		,	1	:			
ۇ.			<b>-</b> [	••••••••••				-
Spring Info.	347 Minimom 11210 >= 10 m/m		- <b> </b>					Į
ring	35/ Tapped Using Gravity	- 17	<i>i</i>		1			
Spi	36/ Undeveloped Spring				- <u>-</u>	Î.		
	Son moderatored opring		'		••• • • • • • •	1 <b>1</b> 1	•	-

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		tov. No.:			Mun. No.			ieneral Information
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	Barangay Number/Barangay	Name			·	<u></u>	<b> </b>	
	Type of Source			Shallow Well	Deep Well	Spring	Shallow Well	Deep Well Spring
	If Total Number of Source							
	Implementation		<u> </u>			1	·	
	2/ Government Agency		*			!		
	37 Private		*			· 		
	Usøge						!	
Ŧ	4 Drinking	·						
918	S/ Washing/Bathing							·
E	6/ Gardening		- #					
Ē	7/ Irrigation							
Ceneral Information	8/ Industrial					1	·	
5	Water Quality		- <u> </u>	- <u>-</u>		1	·	
	9/ High Iron/Manganese Conter	ж 	- -			·	·	
	10/ High Chloride Content				<del>.</del>	·		
	11/ Turbidity/Color/Smell					· · · · · · · · · · · · · · · · · · ·		
:	Production					<u>i</u>		<u> </u>
	12/ Less/No Water in dry season		- -		·	1		
	13/ Usable through the year Technical	· · · · · · · · · · · · · · · · · · ·						
	14/ Diameter < 100 mm (4")		╈				30555200	7651657445-1A
	15/ Diameter >= 100 mm (4")	· · · · · · · · · · · · · · · · · · ·			1.10			12 2 11 12 1
÷	16/ SWL < 5 m below ground							
N.	17/ SWL >= 5 m below ground		-		<u>.</u>			
Ē	18/ Specific Cap. < 3 m <sup>3</sup> /hr/m				and the state of the			
Ju 2	19/ Specific Cap. >= 3 m <sup>3</sup> /hr/m							
Well Information	20/ B-Value < 1,000 s/m <sup>3</sup>		-   -	NAME OF TAXABLE				
5	·	••			- <b>-</b>			
	21/ B-Value < 1.000 s/m <sup>3</sup>						5 - 5 - 5	
	22/ C-Value < 60,000 s <sup>2</sup> m <sup>4</sup> (Well	Loss Censt.)	-	and the second second				
; ;	23/ C-Value >= 60,000 s <sup>2</sup> m <sup>6</sup> Technicat	<del>`</del>		1495	and south as			1.207.461.018815-72.65
:	24/ T-Value < 0.001 m <sup>2</sup> /s						STREET, STREET, ST	CONTRACTOR OF
	25/ T-Value >= 0.001 m <sup>2</sup> /s		-  <u>+</u>	102.576.5				
S	26/ S-Value < 0.01	_, ,, ,		1253				
mat	27/ S-Value >= 0.01						1	and the second
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fer Information	28/ Alluvial Formation	,, <b>-</b> ,	1					
	29/ Volcanic Formation							
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	31/ Sandstone Formation							
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	Technical		+	LYZ X LEN STOP		PERSONAL PR	- 45.25 - 25 Z Z	
	33/ Minimum Yield < 10 m <sup>3</sup> /h	······		1	i	·		· · · · · · · · · · · · · · · · · · ·
ġ	347 Minimum Yield >= 10 m <sup>3</sup> /h		-		<u>.</u>	· · · · · · · · · · · · · · · · · ·		
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Spring Info.	357 Tapped Using Gravity		1	[			I	
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Content: Water Sources - Untapped Sprin	g Informati	on	Page No.:
Data Collection Level: Barangay	Mun. No.:		Date:
Region Number:	Mun. Name		Filename: h2o-res.xls
Prov. No.:	Brgy. No.		Shtname: (B) Spring
Prov. Name:	Brgy. Name		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 SKETCH (Location of Spring, Service as			

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Content: Water Sources - Well Informati	on	Page No.:
Data Collection Level: Barangay	Mun. No.:	Date:
Region Number:	Mun. Name:	Filename: h2o-res.xls
Prov. No.:	Brgy. No.	Shiname: (B) Well
Prov. Name:	Brgy. Name	Form no.: B 4.3
Description of Information	Number	Data
Owner of the Well		
Well Depth		
Water Level		
Use		
Abstract		
Water Quality		
Production		
Year Constructed		
Number of Household		

SKETCH (Location of Well, Service and Transmission Route)

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### 5. WATER SUPPLY SYSTEMS

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Content: WATER SUPPLY - Level II System Date:				Page:			Filename h20supp.xl		
Data Collection Level: Sys	tem	Prov. No.:		Mun. No.:		me (S)Level II P1-2			
legion No.:	Province Name:			Mun. Name		Form No.: 3	\$ 5.1.1		
INFO. GROUP	INFOI	DESCRIPTION		CODE		DATA			
	2/ Identification (Sourc	e No )		#					
System Identification	3/ Name Owner of Sys			ch					
oysicin toonshoudout	4/ Coordinates Scheme			#					
		Car.							
	5/ Barangay a			#					
	6/ Barangay b			#			~~~~~		
System Coverage	7/ Barangay c		•	#	<u> </u>				
	8/ Barangay d			#					
	9/ Barangay e			#			<del></del>		
	10/ Barangay f 11/ Construction Year			#		<u> </u>			
	12/ Population in Servi	A. A. A.		#	<u></u>				
Outstant During	12/ Population in Servi	to Area		#		<u> </u>			
Original Design	13' No. of Households			#		<u></u>			
Assumption	14/ Rural Pop. Served			4 4					
	15/ Urban Pop. Served			# #			•		
Fill in: 14 -15 or 16-17	16/ No. of Rural HH S			#	· · · · · · · · · · · · · · · · · · ·				
	17/ No. of Urban HH S 18/ Number of Commu	served by COMMING	HALF OULCIS						
	19/ Year of Update	anai rauceis		-#					
			<u> </u>	#					
	20/ Pop. in Service Are		<u> </u>	#		· · · · · · · · · · · · · · · · · · ·			
Actual System	21/ No. of Households			*	· · · · · · · · · · · · · · · · · · ·				
Including Extension	22/ Rural Pop. Served	by Commonal Fau	loets	#					
	23/ Urban Pop. Served	by Communal Pa	UCCIS				<b>.</b>		
Fill in: 22-23 or 24-25	24/ No. of Rural HH S	erved by Commun	141 FAUCCIS	#					
	25/ No. of Urben HII		nal Faucets	#	······································		· ··· · · - ·		
	26/ Number of Commi	mai Fauceis	<u> </u>	H .					
Water Sources	27/ Type of Source			<u> </u>	····		<u>_</u>		
	28/ Source Capacity		(m³/h)	······································			<u> </u>		
	29/ Length of Transmi		(m)			<u> </u>	<del></del>		
	30/ Length of Distribu		(m)						
Distribution System	31/ Number of Reserv	the state of the s		#					
LASTICUTION OF STORE	32/ Total Volume of R		(m³)						
	33/ No. of Metered Co			#					
	34/ No. of Unmetered	<b>Communal Fauce</b>		#			·		
	35/ Supply Period		(hrs/d)			·			
	Dirty Water				• • • • • • • • • • • • • • • • • • •				
	36/ a) Everyday		· · · · · · · · · · · · · · · · · · ·	#	·····				
	37/b) Once a Week			#					
	38/c) Once a Month		1. 1. 1. <u>1.</u>	#			<u> </u>		
	39/ d) Occasionally			#			 		
and the second	Taste / Smell		·		مرکزہ والا ان کار ہے۔ مرکزہ والا ان کار ہے	· · · · · · · · · · · · · · · · · · ·	77		
	40/ a) Good Taste					<u></u>			
Service Level	41/b) Salty Taste			#		· · · · · · · · · · · · · · · · · · ·			
during	42/c) Woody Taste			Ħ			·		
	43/d) Metallic Taste			#	<u></u>		P		
Dry Season	44'e) Others			#					
e de la companya de l	Supply Interrupt	ion							
· · · ·	45/ - Power Failure		(times'month						
:	46/ - Pump Breakdow	1	(times'month						
	47/ - Pipe Burst		(times/month						
	48/ Other		(times'month	) #					
	Water Pressure								
	49/ - No. of Faucets		(% of total				·		
4	50/ - No. of Faucets		(% of total	) #					

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Content: WATER SUP	PLY - Level II System	Date:		Page:			Filename h20supp.)
ata Collection Level: S		Prov. No.:		Mun. No	and a local division of the local division o	Shiname:	(S)Level II P2-2
egion No.:	Province Name:			Mun Name:			Form No.: \$ 5.1.2
INFO. GROUP		DESCRIPTIO	1	CODE		D	АТА
COLUMN STATES OF STREET	51/No. of Technical P	rofessionals		#			
<b>a</b> . <b>b</b>	52/ No. of Administrat			#	L		
Staff	\$3/ No. of Collectors			#			
	54/ Total No. of Staff			#			nan Kenada Sareta dan sarata.
	Who does the rep	alr ?			n an the second		1999 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 -
	55/ a) Local Tradesma	u1		X			·····
Repair	56/ b) MEO'CEO			x			
	57/ c) PEO	<b></b>		X			<u></u>
	58/ d) DEO			X			
	59/ Annual Expenditu	165	(Pesos/Yr)	#			
	60/ - Wages		(Pesos/Yr)	A	ļ		· · · · · · · · · · · · · · · · · · ·
	61/ - Fuel, Chemicals,	Materials	(Peses/Yr)	#			<u></u>
Expenditures	62/ - Transport		(Pesos/Yr)				
	63/ - Repairs		(Pesos/Yr)				
	64/ - Loan Repayment	<u> </u>	(Peses/Yr)		Į		
	65/ - Others		(Pesos/Yr)		<b> </b>		
	66/ Consumers Payme	:nt	(Pesos/year)		<b> </b>		
	67/ a) Per pail		(Pesos/pail)				
Tariff Structure	68 b) Per volume		(Pesos/m <sup>3</sup> )				
Lam Subtrate	69/ c) Per household		(Pesos/HH)	#	<b> </b>		·
	70/ d) Others			x	· · · · · · · · · · · · · · · · · · ·		
	71/ Average Collectio	n Efficiency	(%)			·	
•	72/ Annual Billings			#	ļ	· · · · · · · · · · · · · · · · · · ·	
	73/ Billings to P.F. Co	nsumers	(Pesos/Yr)				
Billing	74/ Billings to H.C. C		(Pesos/Yr)		<u></u>		
	75/ Expected Subsidie	s	(Pesos/Yr)		ļ		
	76/ Others		(Pesos/Yr)		<b> </b>		
	77/ Annual Income		(Pesos/Yr)	[4			
4	78/ - Payment by P.F.	Consumers	(Pesos/Yr	[]	<b> </b> •		
Revenues	79/ - Fayment by H.C	Consumers	(Pesos/Yr)		<b>↓</b> '	······	
	80/ - Subsidies		(Pesos/Yr)				
and the second second	81/ - Others		(Pesos/Yr	)[#	I		

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### PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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notent: WATER SUPPL	Y - Level III System Date:		Page:	Filename h20supp.x
ata Collection Level: Syst			Mun. No	
gion No.:	Province Name:		Mun. Na	me: Form No.: \$ 5.2.1
INFO, GROUP	INFO DESCRIPTION		CODE	DATA
MO. GROOP		*******	#	
	2/ Identification (Source No.)			
System Identification	3/ Name/Owner of System		<u>ch</u>	
	4/ Coordinates Scheme Cntr.		#	CONTRACTORS AND
	Municipalities Covered by System			
	5/ Municipality a		#	·
	6/ No. of Cov. Rural Bgys. in Mun. a		Ň	
	7/ No. of Cov. Urban Bgys. in Mun. a		¥	
	8/ Municipality b		Ħ	
System Coverage	9/ No. of Cov. Rural Bgys. Mun. b		#	
-	10 NO. OF COV. Roral Digita Monto		#	
	10/ No. of Cov. Urban Bgys. Mun. b	~~~~~	#	
	11/ Municipality c		#	
	12/ No. of Cov. Rural Egys. Mun. c			
	13/ No. of Cov. Urban Bgys. Mun. c		#	
	14/ Construction Year		<u>#</u>	עוד על החלה הנהוה הכוח וילי מיתרה והייז הילי או איי הייצאי איי א
	15/ Size of Service Area	(ba)	#	
	16/ Population in Service Area		#	
	17/ Housebolds in Service Area		#	
	18/ Area with Level III Services	(ha)	ŧ.	
	19/ Area with Level II Services	(ba)		Valladella
		(ha)		
	20/ Area with Level 1 Services	(ha)	#	Constant of the second second card and the second
	21/ Area with No Services		<u>"</u>	
and the second second	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 I Services		#	
•	26/ Population with No Services		, #	· · · · · · · · · · · · · · · · · · ·
Fill in: 22 -25 or 26-30	27/ Rural Households w/ Level III Services		Ħ	
	28/ Urban Households w/ Level III Services		#	
	29/ Households with Level II Services		#	
	30/ Households with Level I Services		#	
			#	
1	31/ Households with No Services		#	
	32/ House Connections			
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	33/ Population per House Connection		#	
• •	34/ Households per House Connection	· · · · · · · · · · · · · · · · · · ·	#	
and the second	35/ Convoural Faucets		#	
	36/ Population per Communal Faucets		#	
	37/ Households per Communal Faucets		Ħ	
	38/Year of Update		#	
	39/ Size of Service Area	(ha)		
			4	<u>and and an </u>
	40/ Population in Service Area		- <u></u> #	
	41/ Households in Service Area			
	42/ Area with Level III Services	<u>(ha</u>	4	Bandy Market Contract Contract Contract
	43/ Area with Level II Services	(ha		End all the second s
· · · · · · · · ·	44/ Area with Level   Services	(ha		Vales 6 a State of State of State of State of States
	45/ Area with No Services	(ha		
1	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   Services		#	
1 - A	101 Desidering with Ma Service		#	
Fill in: 46-49 or 51-54	51/ Rural Households with Level III Services		#	
and the second sec	DIT KUTAL HOUSEDOIDS WITH LEVEL HI DELTRES		#	
	52/ Urban Households with Level III Services	·	#	
	33/ Households with Level II Services			
	54/ Households with Level I Services		# .	•
	55/ Households with No Services		#	
	56/ House Connections		Ħ	
	57/ Population per House Connection		Ħ	
	58/ Communal Faucets		#	
	59/ Pop. per Communal Faucet		#	
			#	

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### PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Content: WATER SUPPI	Y - Level III System Date:		Page:	Filename:h20supp.xl
Jata Collection Level: Sys			Mun. No	
legion No.:	Province Name:		Mun, Na	me: Form No.: \$ 5.2.2
INFO. GROUP	INFO DESCRIPTION		CODE	DATA
	61/ Main Source A: (Source Type)		#	
	62/ Source No.		#	
	63/ Source Capacity	(m³/ħ)	#	<u></u>
	64/ Operating Time	(hrs/d)	#	· · · · · · · · · · · · · · · · · · ·
	65/ Main Source B: (Source Type)		#	<u></u>
	66/-Source No.		#	
	67/-Source Capacity	(m³/h)	#	
	68/-Operating Time	(hrs/d)	#	
	69/ Main Source C: (Source Type)	X==Z	#	
	70/-Source No.		#	
	71/-Source Capacity	(m³/h)	- #	
	72/-Operating Time	(hrs/d)	#	· · · · · · · · · · · · · · · · · · ·
	73/ Main Source D: (Source Type)			
	74/-Source No.	······································		
	75/-Source Capacity	(m³/b)	#	
	76/-Operating Time	(hrs/d)		
	77/ Main Source E: (Source Type)		#	
	78/-Source No.		#	
	79/-Source Capacity	(m³/b)	#	
Water Sources	80/ -Operating Time	(hrs'd)	#	
	81/ Main Source : F (Source Type)		#	
	81/ -Source No.		#	الها الله الم
N 10	83/-Source Capacity	(m'/h)	#	
	84/ -Operating Time	(hrs'd)		
	Other Well Sources			
	85/-Number		#	
	86/ · Total Capacity	(m³/ħ)	#	
	87/-Total Production	(m³/d)	#	
	Other Surface Water Sources		<i>"</i>	
· · ·	88/-Number		#	
	89/ -Total Capacity	(m³/h)	#	
		(m'/d)	#	
	90/-Total Production	(in ray	<del>  "</del>	
	Other Spring Sources		#	
	92/ - Total Capacity			· · · · · · · · · · · · · · · · · · ·
· · · · · ·	93/-Total Production		#	······································
	Water Production		<u> "</u>	and a second and a second second second second
	94/ Grand Total Production		#	
	Last Year's Production		<sup>::</sup>	an a
	95/-January	(ra <sup>1</sup> /monih)	#	
		(m <sup>1</sup> /month)		
	96/-Feburary	(m'/month)		
	97/-March	(m <sup>3</sup> /month)		
	98/-April		4	
	99/ -May	(m'/month)		
Production Statistics	100/-June	(m²/month)		
	1017-July	(m <sup>1</sup> /month)		· · · · · · · · · · · · · · · · · · ·
	102/ -August	(m <sup>1</sup> /month)		
	103/-September	(m <sup>1</sup> /month)		
	104/-October	(m <sup>1</sup> /month)	Ħ	· · · · · · · · · · · · · · · · · · ·
	105/ -November	(m <sup>1</sup> /month)	#	
	106/-December	(m <sup>1</sup> /month)	#	
	107/ Length of Transmission Mains	(m)	#	
Transmission/	108/ Length of Distribution Mains	(m)	#	
Distribution	109/ Number of Reservoirs		#	
Distriction	110/ Total Volume of Reservoirs	( <sup>t</sup> m)	Ħ	

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PL	AN

intent: WATER SUPPL	Y - Level III System Date:	Page: Mun. N	Filename.h20supp.x0 0.: Shtname:(S)Level III P3-4
ata Collection Level: Syn	tem Prov. No.:	Mun N	
rgion No.:	Province Name:		and the second secon
INFO. GROUP	INFO DESCRIPTION	CODE	DATA
	111/ Supply Period (hrs	ძ) #	
	Dirty Water		
	112/a) Everyday	#	
	113/b) Once a Week	#	
		#	
	114/c) Once a Month	<u>"</u>	
	115/d) Occasionally		
	Taste / Smell		3. Spring March 1 and provide the straight st
	116/a) Good Taste	#	
	117/b) Salty Taste	#	
Service Level	118/c) Woody Taste	#	
	119/d) Metallic Taste	#	
(Dry Season)	120/ e) Others	#	
	Supply Interruption		ومتدوية المستعدية والمراجع وتشرير والمجامع المستقدي فراجع والمعالية والمحالية
•	121/ - Power Failure (times'mon	h) #	
	122/ - Pump Breakdown (times/mon		
	11.1		
	124/ - Other (times/mon	a) #	11 - C.
	Water Pressure		A SAMA AND A SULLAR AND
	125/ - Supply, 2nd floor (% of To		
	126/ - Supply, Ground Boor (% of To		
	127/ - Inadequate Pressure (% of Tot	al) #	
	Domestic H.C. Consumers		AND THE PARTY AND A REAL PROPERTY.
· · ·	128/ - Number of Metered Connections	#	
	130/ - Number of Unmetered Connections	#	MERCENCE MALL TOPS
	Domestic P.F. Consumers		Several second reaction of the second se
· · · ·	131/ - Number of Metered Public Faucets	#	
į	132/ · Consumption (m	(d) #	
	133/ - Number of Unmetered Public Faucets	#	
			1 All and the second second second
	Institutional Consumers	#	
Consumer	134/- Number of Metered Connections		
Consumer	135/ · Consumption (m		
and the second second second	136/ - Number of Unmetered Connections	#	
	Commercial Consumers		
14 A.	137/ - Number of Metered Connections	#	
	138/- Consumption (m	/{31 #	
		#	
· · ·	139/ - Number of Unmetered Connections	<i>"</i>	ى مى يەرىپى يېرىمىيە يەرىپىدى بىلىرىنىڭ ئېچىنىڭ ئېچىنىڭ يېچىنىڭ يېچىنىڭ يېچىنىڭ ئېچىنىڭ يېچىنىڭ يېچىنىڭ ئېچىنى ئېچىنىڭ ئېچىنىڭ
	Industrial Consumers		ر مى بىر مەن مەن مەر مەن ھە خىرە بىر قىلىدىدىدىنى ئىلىنى ھەتىرىمىد ۋەر مەن ئاردارى مار. رىيىرىدىيە ھە يەر ھە مەن ھە خىرە ھە خەر ھەر مىلىدىدى مەن ئىلىدى ھەتىرىمىد ۋەر مەرىيە ماردارى مەن مەن مەن مەن
	140/ - Number of Metered Connections	#	
	141/- Consumption (m	/d) #	
	142/ - Number of Unmetered Connections	#	
	143/ No. of Technical Professionals	#	
	144/ No. of Operators	¥ .	
	143/ No. of Technical Support Staff	- #	
Staff		#	
	146/ No. of Administrative Staff		
	147/ No. of Collectors	#	
	148/ Total No. of Staff	#	
1	149/ Metered Consumption (m <sup>3</sup> /y	ar) #	1
	150/-January (m <sup>3</sup> /mo		
1			
1			
	152/-March (m <sup>3</sup> /mo		
:	153/-April (m³/mo	nth) #	
	154/-May (m <sup>3</sup> /mo		
1			
Consumption			
• -	156/-July (m <sup>3</sup> /mo		
	157/-August (m <sup>1</sup> /mo	nh) #	
	158/-September (m <sup>1</sup> /mo		
	160/-November (m³/mo		
	161/-December (m <sup>3</sup> /mo	rth) #	
	162/ Last Year's Consumption (m <sup>3</sup> /y		

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## PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

colent: WATER Slipp	LY - Level III System Date:		Page:	Filename h20supp.x
ata Collection Level: Sy			Mun. No	
egion No.:	Province Name:		Mun Na	me: Form No.: \$5.2.4
INFO. GROUP	INFO DESCRIPT	ION	CODE	DATA
1.110.00001	163/ - Domestic	(Pesos/m <sup>3</sup> )	#	
		(Peses'm <sup>2</sup> )		
Consumption	164/ - Institutional	(Pesce'm <sup>3</sup> )		
(continued)	165/ - Commercial	And the second s		ىنىڭ ئىلىرىغىنىڭ خانىيە ئەربىلىلىرىنىيەتلەك ۋېغ بىلىرىيەت تەرىپاي كىيە بىلىنە تەكىپارىيەتلىك يەرىپەلىك تەرىپەر يېڭى
(unantry)	166/ - Industrial	(Pesce'm')	+	
	167/ - Others	(n <sup>4</sup> /1)		
	168/ Annual Expenditures	(Pesos yr)		
	169/ - Wages	(Pesos/yr)		مردن اوا میروز
	170/ - Fuel, Chem, Materials	(Pesos/)T) (Pesos/)T)		
Expenditures	171/ • Transport	(Pcsos/)1)		······································
	172/ - Repairs	(Pesos/)1/		
	173/ - Loan Repayment	(Pesos/)T		
	174/ • Others Residential Consuruption:		1	A second s
		(Pesos/m <sup>3</sup> )	) #	a a de la constante de la const Internet de la constante de la c
		(Pesos/m <sup>1</sup> )		
	176/11-20 m <sup>3</sup> /month	and the second se		
	177/21-30 m <sup>3</sup> /month	(Pesos/m		
	178/31 - 40 m <sup>3</sup> /mooth	(Pesos/m		
	179/41 & Up m <sup>3</sup> /month	(Pesos/m <sup>2</sup>	)#	
	180/ Flat Rate per Month	(Pesos/m	) #	
	Institutional Consamption:		<u> </u>	ACTIVITY AND A CONTRACT OF A DECEMPTION
	181/0-10 m³/month	(Pesos/m <sup>3</sup>	)#	
· · ·	182/11-20 m <sup>3</sup> /month	(Pesos/m <sup>3</sup>	) #	
	183/21-30 m <sup>3</sup> /month	(Pesos/m <sup>3</sup>	) #	
	184/31-40 m <sup>3</sup> /month	(Pesos/m)		
	10	(Pesos/m	4	
		(Pesos/m)	<del>در ا</del>	
	186/ Flat Rate per Month	Tresosau	4	FRANK STATES
Tariff Structure	Commercial Consumption:	(Pesos/m	\ #	
	187/0-10 m³/moath			
· · ·	188/11-20 m <sup>3</sup> /month	(Pesos/m		
· · · · · · · · · · · · · · · · · · ·	189/21-30 m <sup>3</sup> /month	(Pcsos/m	A	
	190/31-40 m <sup>1</sup> /month	(Pesos'm		
	191/41 & Up m <sup>3</sup> /month	(Pesos/m	) #	
	192/ Flat Rate per Month	(Pesos'm	<u> </u>	
· .	Industrial Consumption:			
	193/0-10 m <sup>3</sup> /month	(Pesos/m	b) #	
	194/11-20 m <sup>3</sup> /month	(Pesos'm	) #	
1	195/21-30 m <sup>3</sup> /month	(Pesos/m	) #	
	196/31-40 m <sup>3</sup> /month	(Pescs/m	5 #	
:		(Pesos/m	A	
		(Pesos/m	A	
	198/ Flat Rate per Month	(%		
	199/ Avg. Collection Efficiency	(Pesos/y)	2	
	200/ Annual Revenues	(Pesce))		
•	201/ - Residential	(Pesos/)	4	
	202/ - Institutional	(Pesos'))	· /	
	203/ - Coonnervial 204/ - Industrial	(Pesos/y		
Revenues	205/ - Others	(Pesos')	· /	
	Policy on Non-Payment			CARGE CARGE - DATE - FOR BERSON
	206/ - Time Before Disconnect	(tb)	s) #	
	207/ - Annual No. of Disconnect	<u> </u>	#	
1	208/ - Reconnection Fee	(Peso	s) #	-

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Geographic	Municipality	Num	Number of Schools	chools	Numb	Number of Students	udents			Ž	Number of Toilets	<b>Foilets</b>		
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NEDA Geographic Code	Municipality	Drainage Main	Open Channel (with concrete and masonry)	Open Ditches & Unlined Laterals	Reinforced Concrete Circular Pipes	Street Gutters	Outfalls to rivers from drainage mains
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Notes : 15 BCA : Internal Revenue Allotment 2) CDF: Countryside Development Fund

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Notes : 1) IEA : Internal Revenue Allotment 2) CDF: Countryide Development Fund 600

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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## 8. INSTITUTIONAL DATA

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Name of NGO (Include name of contact, positions, address, telephone)	Natl or Local? / Year Established		
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Name of Institute (include name of contact, position, address, tel.)	Private or Public?	Year Es- tablished	Relevant Courses or Workshops Conducted	How many regular teaching staff (mgmt and technical)?	Brief description of facili- ties	Interested in future collabo- ration?
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Table 5.5: Other Existing Community-based Organization or Projects strategies (Examples, Women's Clubs, Youth Clubs, civic clubs, etc.)	ommunîty-base a's Ciubs, You	ed Organization th Clubs, civ	on or Projects whose project ic clubs, etc.)	experiences and approa	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, etc.)	uture implementat
Name of CBO (include name of contact, posi- tion address, tel.)	ntact, posi-	Location of activities	Primary objective	Year established	Example of current projects or activities	or activities
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What local strategies could be considered to increase private sector participation in the sector?

How many local, province-based well drillers are there? How can we optimize their participation in future sector projects? æ How many hardware stores selling plumbing and sanitary fixtures are there in the province? Do we have hardware stores in all municipalities? à

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? \$

Any other information, comments or suggestions which can help in formulating the sector institutional arrangements at the LGU level for the future? <u>o</u>

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#### (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

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**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.
- 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.
  - 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.

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#### **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.
- 3. 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 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:

 Weils - 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 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.

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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

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#### **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.
- b. 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

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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."
  - 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.

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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 Tollet - 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.
- 2. 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 defecation 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.
- 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.

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