10.3 Cost of Required Facilities and Equipment

10.3.1 Cost of Required Facilities

F	Table 10.3.1 Co	Construction Cost of Water Supply Facilities Required for Knase I (2000)	Cost of W.	ater Supply	Facilitie	: Кедилгеа	ior knase i	(2000)	Chri	Unit: 1,000 Pesos
					Rural	Rural Water Supply				
	Urban		1	New System	ystem					Grand
Municipalities	Water			Level	11	:		Level I	Total	Total
	Level III	Level II	:	Deep Well		Shallow	Sub-	Rehabilitation		
			30 m	50 m	70 m	Wells	Total			
Alfonso Castaneda	. 0	0	0	0	. 0	0	0	63	63	63
Ambaomo	0	0	0	0	20,972	0	20.972	283	21,255	21,255
Antao	3,963	0	5.554	0	0	0	5,554	148	5.702	599'6
Bacabac	6.220	0	2.954	0	0	0	2,954	79	3.033	9.253
Bambang	8,280	0	5,554	0	0	0	5.554	148	5.702	13.982
Bayombong (Capital)	10,245	0	0	0	4,660	0	4.660	63	4.723	14.968
Diadi	744	2,080	2,954	0	0	0	2.954	79	5,113	5.857
Dunax del Norte	4.612	1.020	11.934	0	0	0	11,934	317	13.271	17.883
Dunax del Sur	1.912	0	860.6	0	0	0	9.008	242	9.340	11,252
Kasibu	0	0	28.831	0	0	0	28.831	766	29,597	29.597
Кауара	268	0	689'6	0	0	0	689.6	258	9.947	10,215
Ouezon	٥	0	11.816	0	0	0	11,816	314	12,130	12,130
Santa Fe	1.224	0	7,562	0	0	0	7,562	201	7,763	8,987
Solano	12.721	0	4,608	0	0	0	4,608	122	4.730	17,451
Villaverde	2.732	0	0	4,177	0	. 0	4.177	7.5	4,252	6,984
Provincial Total	52,921	3.100	100,554	4,177	25,632	0	130,363	3,158	136,621	189,542

Table 10.3.2 Construction Cost of Water Supply Facilities Required for Phase II (2010)

Unit: 1.000 Pesos

				Ŋ.	Rural Water Supply (Level I)	pply (Level I)			
	Urban Water			New System					Grand Total
Municipalities	Supply		Deep Well		Shallow	Sub-total	Rehabilitation	Total	
	1113207	30 m	50 m	70 m	Wells				
Alfonso Castaneda	0	.0	0	0	0	0	44	44	\$
Ambaguio	0	0	0	6,758	0	6,758	91	6.849	6.849
Antao	30,465	6,381	0	0	0	6.381	170	6.551	37.016
Sagabag	40,281	5.435	٥	0	0	5.435	144	5.579	45.860
Bambang	39,069	9.571	0	0	0	9,571	254	9.825	48.894
Bayombong (Capital)	58.745	0	0	17.244	0	17.244	232	17,476	76,221
Diadi	7.729	4,136	0	0	0	4,136	110	4.246	11.975
Dupax del Norte	17,446	6.617	0	0	0	6,617	176	6.793	24,239
Dupax del Sur	13,157	3.781	0	0	0	3.781	101	3.882	17.039
Kasibu	0	9.571	0	٥	0	9.571	254	9,825	9.825
Kayapa	2,997	7.208	0	0	0	7,208	192	7.400	10,397
Quezon	0	5.199	0	0	0	5,199	138	5.337	5.337
Santa Fe	4.821	4,254	0	0	0	4,254	113	4.367	9.188
Solano	69,565	8,271	0	0	0	8.271	220	8,491	78.056
Villaverde	16,217	0	5,918	٥	٥	5,918	107	6.025	22.242
Provincial Total	100,492	70,424	5,918	24,002	0	100.344	2.346	102,690	403,182



Table 10.3.3 Costs of Sanitation Facilities Required for Phase I (2000)

					! !				İ							LIMIT LAND FRANCE	2000
				Urban	n Sanitation								Rural :	Roral Sanitation			
		T	Household Toilets	oilets				U(Ť	Household Toilets	oilets			80	
Municipality	Flush	Pour Plush	VIP	Sub-total of Construction Cost	Sub-total of Public Investment Cost	Public School Toilets	Public Toilets	latoT othounisaoD isoO	iidu¶ tstoT O memisevat	Flush	Pour Flush	VIP	Sub-total of Construction Cost	Sub-total of Public Investment Cost	Public School Toilets	Tekal Construction IsoO	Total Publ Disamissyni
Alfonso Castaneda	°	0	0	0	Ö	0	0	0	0	0	4,549	0	4,549	187	0	4,549	187
Ambaguio	0	0	0	0	Ö	0	313	313	313	٥	17.197	٥	17,197	707	722	17,919	1,429
Ariao	4,139	2,261	0	6,400	93	0	0	6.400	8	3,498	5,480	2.581	11.559	225	0	11,559	225
Водарое	5.634	2,248	0	7,882	2	0	0	7,882	92	٥	5,613	623	6.236	231	٥	6.236	231
Bambang	5.153	1.782	0		73	0	313	7.248	386	0	10,135	\$0\$	11,040	417	•	11,040	417
Savombong (Capital)	7,343		0		10	1.832	313	9.741	2,155	4,993	13,300	2,341	20,634	742	1,432	22.066	1.979
Dadi	935	2,334	•	3.169	92	0	0	3,169	22	0	13,234	0	13.234	544	٥	13,234	244
Dupax del Norte	3,04		0		0	703	627	4.374	0.5.1	0	ō	2,689	2.689	0	2,000	4,689	2,000
Dupax del Sur	1,442	0	0	1,442	0	331	0	1,773	331	0	10,334	830	11.164	425	1,017	12.181	1.42
Kasibu	0	0	0	0	0	0	0	0	0	٥	26,041	0	26.041	1,071	3.394	29,435	4,465
Kayana	240	0	0 (240	0	0	627	867	627	0	24.711	c	24.711	1.016	885	25.596	1.801
Quezon	0	0	1.0	0 0	. 0	0	O	Q 2, 1	0	0	13.207	٥	13,207	543	٥	13.207	Ř
Santa Fe	0	638		0 638	26	0	070	1,578	996	0	12.143	133	12.276	490	399	12.675	868
Solano	4,432	169:11		0 16,123	481	1.661	313	18.097	2,455	٥	3,032	349	3,381	125	1,286	4.667	1,411
Villaverde	X0E"1	279		0 1.587	11	0	313	1,900	324	0	10,613	C	10.613	437	535	11.148	97.2
Provincial Total	33,670	21,386		0 55.056	ж78	4,527	3,759	63,342	9,164	8,491	169,589	10,451	188,531	6,974	11,670	200,201	1×.644

Table 10.3.4 Costs of Sanitation Facilities Required for Phase II (2010)

																	Unit: 1,000 Pesm	Power
				Urb.	Urban Sanitation			-						Rural Sa	Rural Santation			
		ř	Household Toilets	oilets				U				H	Household Toilets	oilets			136	
Municipality	Flush	Pour Fhush	VIP Latrine	Sub-total of Sub-total of Public Construction Investment Cost	Sub-total of Public Investment Cost	Public School Toilets	Public Toilets	fetoT Constructio Gost	ildu¶ teloT O nomiso (ni	solU sisws2	Flush	Pour Flush	VIP	Sub-total of Construction Cost	Sub-total of Public Investment Cost	Public School Toilets	Tota) Construcció IsoD	EduA lesoT O lasmites val
Alfonso Castaneda	O	0	0	0	0	O	313	313	313	0	-6	7.48K	0	7,488	80£	412	7.900	52
Ambaguio	0	0	Ō	0	0	0	٥	٥	0	0	٥	18.248	٥	18,248	751	0	18,248	751
Aricao	38,128	0	O	38,128	٥	934	c	39,062	924	50.72K	1,095	27,997	٥	260'62	1,152	2,347	31,439	3,499
Bagabag	50,970	0	0	\$0.970	0	1,081	0	\$2,051	1,0%1	67,649	0	23,461	0	23,461	965	2.116	25.577	3,081
Bambang	44,616	0	0	44,616	0	1,333	313	46,262	1,646	59,714		40.951	0	156.04	1,684	3,859	44.810	5.543
Bayombong (Capital)	86,401	O	Ö	86,401	O	2,311	313	X9,025	2,624	113 822	9,452	20,522	0	29,974	844	4.116	14,000	4,960
Diadi	6,595	0	0	6,595	0	0	0	6.595	0	0	0	18,687	0	18.687	769		19,527	1.600
Dupax del Norte	20,639	0	٥	20,639	0	XQ5	0	21,247	80%	-0	0	28.396	-6	28,396	1,168	1,731	30,127	2,890
Dupax del Sur	11.721	Ó	٥	11,721	ō	0	0	11,721	0	٥	0	18.527	٥	18,527	762	×13	19.340	1.575
Kasibu	0	0	٥	0		0	313	313	313	-0	٥	43,065	0	43.065	1.77.1	1.722	44.787	3.493
Каулра	2.563	٥	Ö	2,563	ō	6	627	3.190	627	0	0	35,511	٥	35,511	1,461	1.627	37,138	3,088
Quezon	٥	Ö	٥	o	0	-c	313	313	313	0	- 0	22,424	٥	22,424	922	937	23,361	1,X59
Santa Fe	4.646	0	٥	2.646	0	Ċ	313	4,959	313	0	-0	18.873	٥	18,873	776	8	19,474	1.377
Solano	366.26	0	0	92,996	ō	2.448	940	96.384	3,388	124,472	0	33,955	0	33,955	1,397	1,895	35,850	3.292
Villaverde	14.765	C		14,765	٥	417	0	15,182	417	0	0	19,072	0	19,072	787	1.071	20,143	1.855
Provincial Total	374,040	Ó	0	374,040	٥	9,132	3,445	386,617	12,577	416,385	10,547	377,177	٥	387,724	15,514	24,087	411.811	39,601

10.4 Costs of Sector Management

10.4.1 Breakdown of Community Development and Training Cost

Cost of community development and training was estimated at 12% of the total construction cost of Level I & II water supply facilities and public toilets and at 3% of the total construction cost of Level III water supply systems. This was formulated based on the following:

- (1) The 12% was derived on the basis of DILG's past experience in BWSA formation; and
- (2) The 3% was derived on the basis of LWUA's past experience in the institutional strengthening needs of W.Ds.

These ratios adopted for estimating community development and training cost will allow the province to meet with its needs for community development in the sector management. The following breakdown provides a view of the components under this category.

Table 10.4.1 Breakdown of Community Development and Training Cost

Сотронен	% Share of Cost
1. Donation for Training Activities	10
1. Preparation for Training Activities	10
1.1 Transportation	1
1.2 Technical Assistance	1
1.3 Food	6
1.4 Supplies and Materials including Production of	1
Training Kits	•
1.5 Generation of Training Aids	
2. Conduct of Training Activities	53
2.1 Transporation	5
2.2 Food	12
2.3 Accommodation	33
2.4 Training Room Rental	1
2.5 Miscellaneous	2
3. Field Visits to Support BWSA Formation	37
3.1 Transporation	5
3.2 Food	15
3.3 Accommodation	12
3.4 Field	4
Total	100

11. FINANCIAL ARRANGEMENTS

11.3 Additional Funding Requirements

Percentages for Annual Investment

Percentages of annual investment for different fields of implementation activities are assumed for each sub-sector as general indication and summarized in Table 11.3.1. Assumptions on investment timing shall be subject to change, especially for individual projects depending on fund availability and relevant conditions such as land acquisition and institutional set-up.

Table 11.3.1 Percentages for Annual Investment

Sub-Sector	Component	1996	1997	1998	1999	2000	Total
Urban Water	Level III System Feasibility Study and Detail Design	50	50	0	0	0	100
	Construction & Supervision	0	-20	30	30	20	100
Supply	Community Development & Training	30	20	20	20	10	100
<i>:</i>	Level I Facility Detail Design	50	50	0	0	0 %	100
Rural	Construction & Supervision	12	22	22	22	22	100
Water	Community Development & Training	22	22	22	22	12	100
Supply	Level II System					:	
2041.7	Detail Design	100	0	0	0	0	100
	Construction & Supervision	50	50	0 :	0	0	100
	Community Development & Training	50	50	0	0	0	100
	Urban Household Toilet	12	22	22	22	22	100
	Rural Household Toilet	12	22	22	22	22	100
1 -	Public School Toilet	12	22	22	22	22	100
Sanitation	Public Toilet	12	22	22	22	22	100
=	Disinfection of Level I Wells	12	22	22	22	22	100
	Detail Design	100	0	: 0	0	0	100
	Construction & Supervision	. 12	22	22	22	22	100
	Community Development & Training	22	22	22	22	12	100

Urban water supply:

- Engineering services for feasibility study and detailed design will be undertaken in the first two years.
- Construction work accompanied by supervisory services will be commenced partially in 2nd year and in full operation from 3rd year to 4th year.
- Community development will take place from the first year.

Rural water supply (Level I):

- Engineering services for detailed design will be undertaken during the first two years for Level I and completed within the first year for Level II.
- Construction work accompanied by supervisory services will be partially commenced from the first year and in full operation from 2nd year for Level I, while Level II will be completed within first two years.
- Community development and training will take place from the first year for Level I,
 while Level II will be completed within the first two years.

Sanitation:

- Engineering services for detailed design will be completed within the first year.
- Construction work accompanied by supervisory services will be partially commenced in the first year and in full operation from 2nd year.
- Community development and training will be in full operation from the first year.

11.4 Medium-Term Implementation Arrangements

11.4.2 Alternative Countermeasures

The Local Government Empowerment Fund (LGEF)

The Local Government Empowerment Fund (LGEF) will be established in 1996. Purposes, concept and mechanics of LGEF are discussed below.

(1) Purpose

- To provide a mechanism for channeling grants and/or concessional loan funds to LGUs
- To rationalize the allocation of funds to priority national projects in support of devolved activities of LGUs over and above their mandated IRA shares
- 3) To effect a more transparent presentation to fund allocations to LGUs in the budget

(2) Concept

 The LGEF is an umbrella program fund in the GAA (General Appropriate Act) for national government projects being implemented by national government agencies with components supportive of devolved activities of LGUs.

- 2) Projects under the LGBF are to be supported wholly or partially by grants or highly concessional loans such as those from the ADF funds from ADB, which carry zero interest and payable in 40 years. Highly concessional loan is defined as those loans with a grant element of no less than 75%.
- 3) Projects for inclusion in the LGEF will be basically those under the economic and health services sectors.
- 4) As a matter of strategy, to ensure sustainability of LGU support to the project, a "matching fund" of no less than 10% of the total project cost shall be required from the beneficiary LGU. "The matching fund" may be in cash or in-kind.

(3) Mechanics

- Authorization of funds for the eligible projects will be made under the budgets of the implementing agencies following usual budgetary process, rules and regulations.
- 2) The LGEF like MDF (Municipal Development Fund) will be included as one of the items under Assistance to Local Government Units (ALGU) authorized in the GAA. It will likewise identity foreign assisted projects being implemented by national government agencies with components that are directly benefiting specific LGUs, such as the implementation of devolved activities. However, unlike the MDF, fund allocations for LGU projects under LGEF are not to be repaid and are to be treated as subsidies.
- 3) The LGEF will support programs/activities of the 19 priority provinces under the Social Reform Agenda (SRA) and/or those classified as 5th or 6th class LGUs.

Comprehensive Investment Need Ranking for the Municipalities

Table 11.4.1 Comprehensive Investment Need Ranking of the Municipalities

	10', of 1 and one one	Evaluation Factor Evaluation Population or Households	Factor of Poorlation or E	Toucholds		Score by	Score by Sub-Sector			Weighted	Weighted Score by Sub-Sector	ub-Sector		Synthetic
Municipality	Urban Water	Rural Water	Urban	Rural	Urban	Rural	Urban	Rural	Urban Water	Rural	Urban	Rural	Total Weighted	Need
	Supply	Supply	Sanitation	Sanitation	Supply	Supply	Sanitation Sanitation	Sanitation	Supply	Supply	Sanitation	Sanitation	Score	
A Moneo Castafreda	× 7	43	Ϋ́	39	Ϋ́Х	09:0	N.A.	09'0	N.A.	0:30	N.A.	0.30	090	7
Ambonio	4 2	83	Υ χ	57	Ϋ́N	1.8	Z.A.	00'1	N.A.	0.50	N.A.	0.50	1.00	1
Anthonymo	47	8	50	31	0.39	0.40	0.80	09:0	0.10	0.10	0.20	0.15	0.55	11
Aircabar	٩N	۶	00	23	19.0	1.00	0.40	0.40	0.17	52.0	0.10	0.10	79.0	5
Dogwood,	V 2	7,	17	23	990	0.40	0.80	0.40	0.17	0.10	0.20	0.10	0.57	10
Datification (Co. 2)	V V	71	=	38	19.0	0.20	09.0	09:0	0.15	50.0	0.15	0.15	020	14
Pinds (Capital)	2	£\$	29	45	0.42	09:0	0.1	08'0	0.11	0.15	0.25	0.20	0.71	4
Dines de Nors	42	22	7	02	0.83	0.60	0.40	0.20	0.21	0.15	0.10	0.05	0.51	13
Dunga del Cur	2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		So	0.59	0.80	0.20	08.0	0.15	0.20	90'0	0.20	09:0	7
וראוארא מכו שמו	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		< Z	141	ź	8	V Z	0.80	N.A.	0.50	N.A.	0.40	06'0	2
Kavaga	Y A N	04	0	\$	22.0	0.40	0.20	1.00	0.18	01.0	0.05	0.25	0.58	٥
Onezon	A Z	63	Ϋ́Α	25	Z.A.	0.80	N.A.	0.40	N.A.	0,40	N.A.	0.20	09:0	۷
Canta Fe	Ϋ́Z	33	21	48.	8:1	09:0	1.00	080	0.25	0.15	0.25	0.20	0.85	43
Solano	Ϋ́	21	13	11	0.43	070	09'0	0.20	0.11	0.10	0.15	0.05	0.41	15
Villaverde	N.A.	24	13	- 29	99.0	0.40	09'0	0.40	0.17	0.10	0.15	0.10	0.52	ij
Provincial Total	N.A.	42	13	33										

(1) Scoring to Underserved and Unserved Percentage.

2) Assumed Weight by Sub-Sector for Synthetic Evaluation by Municipality.

भू

								100	
Score	Kange of	Š	Ž Ž	Dust D	Juser	veg	Range of Underserved and Unserved Percentage	7	(T)
1.0	× 18	ಜ	21	3>	0	51	81 <% 0 21 <% 0 51 <% 0		
0.8	61 < %	æ v	91	> % >	20	4.	61 < 4 < 80 16 < 4 < 20 41 < 7 < 50		
0.6	%> [7	96 V	11	>%>	15	31	41 < % < 60 11 < % < 15 31 < % < 40		٠
4.0	21 < % < 40 6 < % < 10 21 < % <	À	9	>%>	01	12	< % < 30		
0.2	°	8 Y	٥	>%	5	0	0 %< 20 0 %< 5 0 %< 20		
			ı		ļ				

12. MONITORING

Form P- 1

T

12.4 Evaluation of Plan Implementation and Updating the PW4SP

Table 12.4.1 Draft Formats for Annual Sector Performance Summary Report (Provincial and Municipal Levels)

Service Coverage

		LAST	LAST YEAR	- - -		THIS	THIS YEAR	
Municipality	Population (2)	Persons with Safe Water & Sanitary	Persons with Safe Water	Persons with Sanitary Toilets	Population (6)	Persons with Safe Water & Sanitary	Persons with Safe Water	Persons with Sanitary Toilets
	:	Toilets	Only (4)	Only (5)		Toilets (7)	Only (8)	Only (9)
Total								
% Served								
		Tarrets						

II. Sources & Uses of Capital Development Funds

					ň	Uses of Funds			
Source of Fund (1)	Budget for Water Supply & Sanitation (2)	Actual Disbursement (3)	Water Source Development (4)	Water Supply Transmission (5)	Water Storage/ Treatment & Distribution (6)	Housebold Toilets (7)	School Toilets (8)	Public Toilets (9)	Others (10)
A. Local Funds. Provincial Funds									
Municipal Funds									
ďα									
a O									
Ω.						-			
យ់									
ш. (<u> </u>		
ප් ක	-								
							••••••		
* ``									
SUB-TOTAL									
B. National Funds									
рьwн При									
DOH									
SUB-TOTAL									
C. External Funds									
OSN									
NGO									
NGO									
SUB-TOTAL									
TOTAL									

III. School Sanitation (Source, DECS)

School (Location)	No. of Students Enrolled	Water Supply Adequate? (Y/N)	No. of Functioning Toilet Units	Facility: Student Ratio
	જે			

IV. Incidence of Diarrhea (Source IPHO)

January February March April May June July August September	Last Year (2) This Year (3)
February March April May June July August September	
March April May June July August September	
April May June July August September October	
May June July August September October	
July August September October	
July August September October	
August September October	
September October	
October	
A Constitution of the Cons	
INCVELLIDEL	
December	

V. Water Resources: Report any major changes in the availability and quality of water in the province. Attach map.

Unit Cost Summary: Based on project during the reporting period, indicate th	
1. Shallow Well (w/o hand pump) = _	
2. Deep Well (w/o pump) =	/ Meter Depth
3. Pipeline =/ meter	
4. Storage Tanks =	
5. Others,	

P

1

Form M-1

Municipality of Provincial Water & Sanitation Monitoring System

Annual Sector Performance Summary Report
Period Covered:

I. Service Coverage

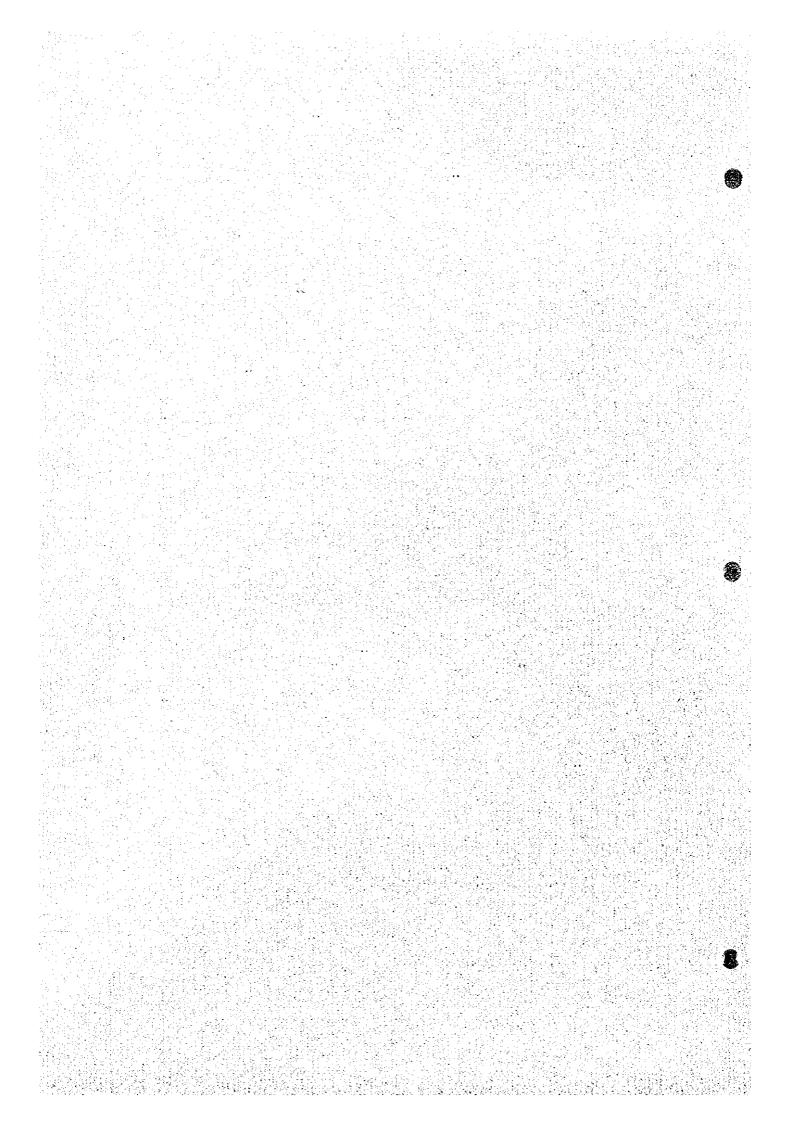
										 	 								=
	Persons with Sanitary Toilers Only (9)																		
EAR	Persons with Safe Water Only	(8)																	
THIS YEAR	Persons with Safe Water & Sanitary Toilets	€																	
	Population (6)																		
	Persons with Sanitary Toilets Only (5)																		
EAR	Persons with Safe Water Only	(4)																	
LASTYEAR	Persons with Safe Water & Sanitary Toilets	60																	
	Population (2)	4												,					
	Name of Barangay (1)		٨.	7.	3.	4	5.	9	2	 0		12.	113.	14	15	16	17	Total	% Served

II. Sources & Uses of Capital Development Funds.

					Uses	Uses of Funds			
Source of Funds (1)	Budget (2)	Actual Disbursement	Water Source Development (4)	Water Supply Transmission (5)	Water Storage/ Treatment & Distribution (6)	Household Toilets (7)	School Toilets (8)	Public Toilets (9)	Others (10)
Municipal Funds									
Barangay Funds									
4									
.83			:						
Ú									
D.									
ជា									
ĸ									
ÿ									
H,									
Ţ									
J.									
K									
1									
Α.									
Ŋ.									
· 0									
ρì.									
0									
R.									
S.									
T.									
ŭ.									
w.			:						
SUB-TOTAL									
NGO									
NGO									
NCO									
SUB-TOTAL									
TOTAL			:						

DATA REPORT

DATA REPORT



T

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

	X								
	- Parita	100/	Pressoned hy		Relat	Related Subjects	jects		Remarks
ģ.		1 500	repared of	WS	Ð	WS HD SE CD	S	٥	
	LAWS AND REGULATIONS					\dashv		-	
	The Local Government Code of 1991	1661	Congress of the Phil.		-	×		-	
ľ	Τ	1976	HOQ		-	×	_		
"	National Handbook on Land and Other Water Resources	Jul-91	NLUCINEDA				×		
1			3			_	1		
-	1991 Family Income and Expenditures Survey of Households Bulletin Series 72	1661	OSN				×		
<u> `</u>	1992 Philippine Statistical Yearbook	Oct-92	NSCB			×	×	_	
<u> </u> "	Г	Dec-95	OSN				×	_	
14	Ι	1992	DOH			×			
	STATISTICS - Provincial Level	.						-	
<u> </u> -	1990 Census of Population and Housing Report No. 3-64 D: Socio-Economic and Demographic	1990				-		-	
	Characteristics of Nueva Vizcaya			_		-		-	
7	Γ					\dashv		-	
	NATIONAL DEVELOPMENT PLAN/ SECTOR PLAN				_	_	_		
_	Water Supply, Sewerage and Sanitation Master Plan of the Philippines 1988-2000.	1988	NEDA	×	×	×			
7	National Physical Framework Plan 1993-2022.	Oct-92	Nat'l. Land Use Com.				×		
	I	€6-3nV	WORLD BANK	x	×	×		Wor	Working Papers
4	Π	1993	NEDA			\dashv	×	_	
<u> </u>		Oct-93	NJS/Basic Team	-		×		Fina	Final Report
ľ	Γ	Jun-92	JICA			-		Mair	Main Report
[ļ	Mar-93	DILG-PMO			×		Train	Training Manual 2nd Edition
8	The Special Assistance for Project Sustainability Program for F	Mar-92	OECF	x				Fina	Final Report (Main Report)
٥	8WSA Pomer English Version.	Sep-92	DILG,DPWH,DOH			×		Seco	Second Edition
င္	Г	Apr-93	WORLD BANK					x Miss	Mission Report
=	Skills Training for Santary Engineers	Sep-92				×		Trair	Training Manual 1st Edition
2	ı	May-93	World Bank Proj.			×		_	
<u> </u>	1		Loan 3242-DH	_				-	
<u></u>	Γ			_	×			-	
<u> ~</u>	1	1992	Sandy Caimeross	4		×	_	Ö	Discussion Paper Series
1=		6861	WHO	4		×			

INTRODUCTION
 The Provincial Plan for the Province of Nueva Vizcaya
 1.3.2 Outline of the Report

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

Į		1		Related Subjects	hiects	
2		Year	Prepared by	o landania	L.	Kemarks
ġ.				WSIAD SE CD SE	0 35 0	
1.7	Guidelines for Planning Community Participation in Water Supply & Sanitation Projects.		Anne Whyle	-	×	
]2	Description Bushing Conference Conference Chapter in Water and Sanitation.	Feb-93	Deepa Narayan	,	×	
	Community Description and Business Education on Water Stands and Sanitation (CPHE).	Oct-89	Technical Coop.		×	
;	Continuity of the Opine and 127 gives accommending the Cappy of the Opine		BMGS	×		
;	DEGINERAL MARKS OF LINE THIS.		PAG-ASA	×		-
3 7	Partitional Attnospheric, Occurrational and Association Services Actual Cases. Partitional Partitional Partition Flow and Lake or River State.		Bureau of Research	×		
1 7	Uniterprine Water Newtonies Summary Dates, vol. 1887 and	Aug-70	B.M.Sandoval & Mamaril	×		
	PROVINCIAL SECTION PLANDEVELOPMENT PROGRAM					
-	Provincial Annual Accomplishment Report - Nueva Vizcava	1993	OOdd		×	
,	Provincial Annual Accomplishment Report - Municipality of Dupax del Sur	1994	MPDO		×	
1	Minicipal Angual Accomplishment Report - Municipality of Bagabac	1661	MPDO		×	
<u> </u>	Provincial Socia-Forenmic and Physical Profile - Nueva Vizcava	0661	OGdd	-	×	
,	Description Description Framework Plan (1905-2025) - Nueva Vizcava		PPDO		x	
1	Southern United Man - Nama Vizcava		DENR-Province	x		
,	Hwdro-Evo-Condition Zone Man		DENR-Province	×		
ď	Promingial Water Sunnly Inventory Report - Nueva Vizcava	1992	DEO-DPWH	x		
	Administrative Man (1:150,000) for the Province of Nueva Vizcava		NAMRIA	×		
٤	Tonographic Man (1:50,000) for the Province of Nueva Vizcava		NAMRIA	×		
	Rapid Assessment of Water Supply Sources for the Province of Nucva Vizcaya		NWRB	×		
2	Groundwater Resources Investigation for the Province of Nueva Vizcaya		NWRB	x	-	
5	Geology and Mineral Resources of the Philippines		BMGS	×		
12	Geological Map of the Philippines (1:1,000,000)		BMGS	×	_	
Š	Recognisance Hydrogeological Survey of the Province of Nueva Vizcaya		BMGS	×	-	
2	Philipoine Water Resources. Summary Data - Nueva Vizcaya		DPWH/BRS	×		
	OTHER REFERENCES					
<u> </u>	Microsoft Windows Version 3.1	1992	Microsoft Corporation		x Us	User's Manual
	Microsoft Excel Version 5.0	1994	Microsoft Corporation		x Us	User's Manual
٠٠.	Microsoft Word Version 6.0	1661	Microsoft Corporation		x Us	User's Manual

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

1.4 Acknowledgements

1

Table 1.4.1 List of Persons and Institutions Who Participated in the Preparation of PW4SP

	Name	Position	Office
Pro	Provincial Sector Planning Team:		
	Mr. Fredenco Andaya	Provincial Planning & Dev't. Coordinator	Provincial Planning & Dev't. Office
લં	Mr. Edgardo Sabado	Water Resource Engineer	- op -
<u>w</u>	Mr. Franz Joseph Yoshiy	Waterworks Engineer	Provincial Engineer's Office
ų.	Ms. Evelyn Sagun	Sanitary Engineer	Provincial Health Office
5.	Ms. Carol Guntalilib	Training Specialist	Provincial Planning & Dev't. Office
٠.	Ms. Imelda Acojido	Water Supply Engineer/Coordinator	DILG
۲.	Ms. Analiza Anabelle Ellamil	Computer Encoder	Provincial Planning & Dev't. Office
Wa	Water Supply and Sanitation - Project Management Office:		
	Mr. Orville M. Roque	Program Manager	WSS-PMO, DILG
7.	Ms. Ellen I. Pascua	Asst. Program Manager	- op -
ır,	Mr. Rogelio B. Ocampo	Chief, Planning Division	- op -
4	Mr. Mario V. De Dios	Development Management Officer V	- op -
Ŋ	Ms. Fe Crisilla M. Banluta	PW4SP Project Officer	- op -
نو	6. Ms. Ma. Contessa C. Navarro	Coordinator	- do -

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

2. 2,6

2.6.1

1

COMPOSITION OF FIGURES AND TABLES BY CHAPTER/SECTION

Table 2.6.1 Guideline for Preparation of PW4SP

-					
			A.C. 12	Commention Desired	Data Pennel
	Table of Contents	Contents	Main Kepart	Supporting Report	sanday provi
	INTRODUCTION				
.	Sector Development in the Philippines	Nationwide sector development			
7.	Provincial Sector Planning	Outline of provincial sector planning			
1.2.1	Objectives of Sector Planning				
1.2.2	Scope of Sector Planning		.:		
1.23	Financing of Sector Plan				
2	The Provincial Plan for the Province		F1,3,1 Flow Diagram of Sector F1	F1.3.1 Organization Chart for Implementation of	
٤.	Preparation of the Plan			1.W45.F	*1.3.1 List of Report/Data/
3.2	Outline of the Report				Collected
٠٠.	Acknowledgments				
<u>~i</u>	PLANNING APPROACH FOR FUTURE SECTOR DEVELOPMENT				
7.7	General		:		
7:2	Planning Francwork	- Sector Arrangements with Reference to National Master Plan and Medium-Term	72.2.1 National Sector Coverage Targets		
	`	Development Plan			

Thatte of Cantenes Water Supply Coverage Sanitation and Sewrage Coverage Sanitation and Sewrage Coverage Integrated Approach Cox Recovery Soutamability Sustainability Sus	Typide of Cantonia Contents						Tables & Figures	i	
2.3 Sector Objectives - Water Supply Coverage 2.4 Current Sector Policies - Self-Reliance 2.5 Current Sector Policies - Self-Reliance 2.6 Integrated Approach 2.6 Major Legislation and Swarer Sector Participation 3.7 Water Resources Management 3.8 Major Legislation and Swarer Code of the Philippines 4. Water Code of the Philippines 4. Water Code of the Philippines 5. Code of Swareholds 5. Philippines 6. Constraints and required arrangements to Pace 1. Institutional Hartarehical 6. System of the Philippines 6. Constraints and required arrangements to 12.6.1 Institutional Hartarehical 7. System of the Philippines 7. System of the Philippines 7. System of Guestionnanies 7. Table Management 7. Shane Ma	2.3 Sector Objective. - Satilation and Severage Coverage - Satil-Reliance - Satil-Reliance - Satil-Reliance - Out Recovery - Court Recovery - Court Recovery - Satilation and - Local Government Code Regulation and - National Dehking Water Standards - Philippine Sector - National Dehking Water Standards - Philippine Sector - National Building Code - Constraints and required armagements to Satisfaction - Constraints and required armagements to Satisfaction - Satisfaction Sector Standards - Constraints and required armagements to Satisfaction of the Philippines - Constraints and required armagements of Questionnine - Tables - Tabl	·	Table of Contents	Contents	Main Report		Supporting Report	Data Report	
2.3 Sector Objectives - water supply Coverage 2.4 Current Sector Policies - Self-Reliance 3.5 All Strategies - Integrated Approach 3.5 Major Legislation and Severage Coverage 4. Sector - Cocial Government Code 5. Regulation and Severage Sector Participation 5. Water Code of the Philippines 6. Water Code of the Philippines 7. Water Code of the Philippines 6. Water Code of Santandard 6. Phanning Principles and Code of Santandard 6. Phanning Principles and Code of Santandard 6. Constraints and required arrangements to Piz. 6.1 Institutional Hararehical 7. System of the Philippines 7. Sold Management 7. Data Managemen	2.3 Sector Objectives - water supply Coverage 2.4 Current Sector Policies - SafeRelance - Integrated Approach - Cook Recovery - Sustainability - Process Sector Participation - Water Resources Management - Local Government Code Regulation and - Water Resources Management - Local Government Code - Major Legishtion and - Water Resources Management - Water Resource - Philippine Environment Code - National Derikting Water Standards - Phantang Principles and - Constraints and required arrangement to Pi2.6.1 Institutional Herrarchical - Constraints and required arrangement to System of the Philippines - Data Management - Data storage processing and retrieval - Data storage processing and retrieval - Data storage processing and retrieval - T2.6.5 -								
2.4 Current Sector Policies - Integrated Approach - Coxt Recovery - Sustaination - Coxt Recovery - Sustaination - Water Resources Management - Local Government Code - Regulations Affecting - Water Code of the Philippines - Code on Summand - National Drinking Water Standards - Code on Summand - Constraination - Constraination - Constraination - Constraination and required managements to F2.6.1 Institutional Herarchical - Local Summand - Local Code - Sustaination - Sustaination - Sustaination - Sustaination - Constraination - Constraination - Constraination - Sustaination - Sustaination - Constraination - Constr	2.4 Current Sector Policies - Self-Relance - Integrated Approach - Constrainability - Private Secone Participation - Constrainability - Private Secone Participation - Mater Resources Management - Local Government Code - Water Code of the Philippines - Philippines - Philippines - Philippines - Philippines - Philippines - Code of Santation - National Dehicing Water Standards - National Dehicing Water Standards - National Building Code - National Building Code - National Building Code - Constrains and cequired arrangements - Code of Santation - Code Santation - Santa Management - Data Management - Data storage processing and certifical - System of the Philippines - Data Management - Data storage processing and certifical - System of the Philippines - T2.6.3 - T2.6.5 - T2.6.5	n Li	Sector Objectives	- Water Supply Coverage - Sanitation and Sewerage Coverage					
2.4 Current Sector Policies Self-Reliance and Strategee Cost Recovery Cost Recovery Sustainability Private Sector Participation Water Code of the Philippines Regulations Affecting Water Standards Philippine Environmental Code National Deriking Water Standards Philippine Environmental Code National Deriking Water Standards Philippines Code on Santation Code on Santation National Building Code National Building Code Code on Santation Octor Philippines Code on Santation Data Management Standards Data Management Processing and reduced arrangements to P.2.6.2 Structure of Questionnaire Code Data Storage processing and reduced arrangement of Questionnaire Code Data Management T.2.6.3 Structure of Questionnaire T.2.6.3 T.2.6.4	2.4 Current Sector Policies - Self-Réclience - Integrated Approach - Corrent Sector Policies - Integrated Approach - Corrent Sector Puticipation - Constrainability - Corrent Sector Puticipation - Vac Core Core Corrent Code - Vac Code of the Philippines - Pumbing Code of the Philippines - Code on Santiation - Philippines Code of the Philippines - Code on Santiation - Santiation - Santiation - Santiation - Santiation - Constraints and required urangement to Good - Code on Santiation - Constraints and required urangement - Santiation - Santiation - Constraints and required work - Santiation - Santiation - Constraints and required urangement - Santiational Santiation - Constraints - Code - Santiation - Code - C								
and Strategies - Gost Recovery - Cost Recovery - Sustainability - Private Sector Participation - Water Resources Management 2.5 Major Legislation and - Local Government Code - Regulations Affecting - Water Ode of the Philippines - Philippines - Philippines - Code on Santaina Sode - National Deficies and - Constraint Sandands - Data Management - Constraint sold required arrangements to - System of the Philippines - System of the Philippines - Constraint sold required arrangements to - System of the Philippines - System of the Philippines - Tables	and Strategies - Gost Recourge - Cost Recourges - Cost Recourges - Sustainability - Private Sector Participation - Water Resources Management - Local Government Code - Regulation and - Water Resources (The Philippines Philippines Philippines Philippines Code of the Philippines - Philippine Environmental Code - National Building Code - Santation - National Building Code - Constraints and required arrangements to - Constraints and required arrangements to - Salas Management - Constraints and required arrangements to - Salas storage processing and retrieval - Ta.6.3	٦ <u>١</u>	Current Sector Policies	- Self-Reliance					
2.5 Major Legislation and Devemment Code of the Philippines Regulation Affecting Philippine Environmental Code Water Code of the Philippines Philippine Environmental Code Water Ode of the Philippines Philippine Environmental Code National Philippines Code on Santiation National Building Code Constraints and required armagements to P2.6.1 Institutional Hierarchical T2.6.2 Data Management Data storage processing and retrieval P2.6.2 Structure of Questionnaire T2.6.3 T2.6.3 Data Management T2.6.3 Tructure of Questionnaire T2.6.3 T2.6.4 T2.6.5	Sustainability Sustainability Private Secources Management Wajor Legislation and Water Resources Management Water Resources Management Regulation Affecting Water Resources Management Regulation Affecting Planning Principles Planning Principles Code of the Philippines Code of Management National Building Code Planning Principles Constraints and required arrangements to System of the Philippines Planning Principles Data Management Data Management T2.6.5 T2.6.5 T2.6.5 T2.6.5 T2.6.5		and Strategies	Integrated Approach					
Sustainability Private Sector Participation Private Sector Participation Private Sector Participation Regulation and Color of the Philippines Regulation Affecting Philippine Environment Code National Drinking Water Standards National Drinking Water Standards Code on Santation National Building Code Constraints and required arrangements to System of the Philippines Code on Santation National Building Code Constraints and required arrangements to Planning Principles Data storage processing and retrieval T2.6.3 Structure of Questionnaire T2.6.5 T2.6.5 T2.6.5 T2.6.5	Sustainability Private Sector Participation Private Sector Participation Private Sector Participation Personal Color of the Philippines the Sector Pullippine Environment Color Philippine Environment Color Philippine Environment Color Philippine Environment Color Philippine Environment Color Philippines Color of Shirthion National Building Color National Building Color National Building Color Planning Principles Data Management Data storage processing and retrieval ELG.2 Data Management This intermediate This is a storage processing and retrieval This is a storage processing and			- Coxt Recovery			-		_
Water Resources Management Water Resources Management Local Government Code Regulations Affecting Water Code of the Philippines Plumbing Code of the Philippines Code on Santiation National Building Code Data Management Constraints and required urrangements to System of the Philippines Code and Santiation National Building Code Undertake planning work Data storage processing and required arrangements of System of the Philippines Local Data Management Data storage processing and refused Taces	2.5 Major Legislation and 2.6 National Drinking Water Resources Management 2.6 Planning Principles and 2.6.1 Planning Principles 2.6.2 Data Management 2.6.2 Data Management 2.6.3 Data Management 2.6.4 T.2.6.3 2.6.5 T.2.6.4 T.2.6.5 T.2.6.5 T.2.6.5 T.2.6.5 T.2.6.5			- Sustainability					
2.5 Major Legislation and - Local Government Code Regulations Affecting - Water Code of the Philippines the Sector - National Defiking Water Standards - Philippine Environmental Code - National Building Code - National Building Code - Code on Santation - National Building Code - Constraints and required arrangements to Bata Management - Constraints and required arrangements of Data storage processing and retrieval - System of the Philippiness - T2.6.3 - Data Management - Data storage processing and retrieval - Structure of Questionnaire - T2.6.4 - T2.6.5 - T2.6.5 - T2.6.5	2.5 Major Legislation and 2. Local Government Code 2.6 Regulations Affecting 2.6 Planning Perneiples and 2.6.1 Planning Principles 2.6.1 Planning Principles 2.6.2 Data Management 2.6.2 Data Management 2.6.3 Data Management 2.6.4 Planning Principles 3.6.4 Planning Principles 3.6.5 Data Management 3.6.6 Data Management 3.6.7 Planning Principles 3.6.8 Structure of Questionnaire 3.6.9 Planning Principles 3.6.1 Planning Principles 3.6.1 Planning Principles 3.6.2 Data Management 3.6.3 Structure of Questionnaire 3.6.4 T2.6.5 3.6.5 Structure of Questionnaire 3.6.7 T2.6.5 3.6.7 T2.6.5 3.6.8 T2.6.5 3.6.9 Planning Principles 3.6.9 Planning Principles 3.6.1 Planning Principles 4.7 T2.6.5			- Private Sector Participation					
Regulation and Code of the Philippines Regulation Affecting Philippine Environmental Code - Water Code of the Philippines - National Drinking Water Standards - Philippine Environmental Code - National Building Code - National Building Code - National Building Code - Constraints and equived arrangements to - Constraints and equived arrangements to - Data storage processing and retrieval - Data storage processing and retrieval - Data Management - Data storage processing and retrieval - T2.6.5 - T2.6.5 - T2.6.5 - T2.6.5	2.5 Major Legislation and Code of the Philippines Regulation Affecting Philippine Environmental Code - Water Code of the Philippines - Philippine Environmental Code - National Dinking Water Standards - Planning Principles and Code on Santation - National Building Code - National Building Code - Constraints and required arrangements to System of the Philippines T2.6.1 2.6.1 Planning Principles - Data storage processing and retrieval Principles - Data Management - Data storage processing and retrieval Principles - T2.6.2 Structure of Questionnaire T2.6.5 - T2.6.5 - T2.6.5			· Water Resources Management	:				
2.5 Major Legislation and Pulippines Regulations Affecting Water Code of the Philippines the Sector - Water Code of the Philippines - Phumbing Code of the Philippines - Code on Santiation - National Building Code - Constraints and required arrangements to - Constraints and required arrangements to - Constraints and required arrangements to - Data Management - Data storage processing and retrieval - 2.6.2 Data Management - Local Outstionnaire of Questionnaire - T2.6.3 - T2.6.3 - T2.6.3 - T2.6.3 - T2.6.3 - T2.6.3	Association and Execution and Execution and Execution and Executions Affecting Philippines (Publishing Code of the Philippines Environmental Code (Publishing Water Studies) Plumbing Code of the Philippines (Code on Santiation) (Code on Sant								
Regulations Affecting - Water Code of the Philippines the Sector - Philippine Environmental Code - National Darking Water Standards - National Darking Water Standards - Plumbing Code on Sanitation - Code on Sanitation - Constraints and required arrangement to Data Management - Constraints and required arrangement - Constraints and required arrangement - Constraints and required arrangement - Constraints work - Data storage processing and retrieval - System of the Philippines - T2.6.1 Planning Principles - Data storage processing and retrieval - Structure of Questionnaire - T2.6.5 -	Regulations Affecting - Water Code of the Philippines the Sector - Philippine Environmental Code - Philippine Environmental Code - National Drinking Water Standards - Plumbing Code of the Philippines - Code on Sanitation - National Building Code - Constraints and required arrangements to - Data Management - Constraints and required arrangement in System of the Philippines - Data storage processing and retrieval F2.6.2 Structure of Questionnaire T2.6.3 - Data Management - T2.6.5 - Data Management - T2.6.5 - T2.6.5 - T2.6.5 - T2.6.5 - T2.6.5	,	Major Legislation and	· Local Government Code					
the Sector - Philippine Environmental Code - National Drinking Water Standards - Phumbing Code of the Philippines - Code on Santtation - National Building Code - Standards - Constraints and required arrangements to - Constraints and required arrangements to - Constraints and required arrangements to - Data Management - Data storage processing and retrieval - System of the Philippines - T. 6.2 - Structure of Questionnaire - T. 6.3 - T. 6.4 - T. 6.5	the Sector - Pluilpine Environmental Code - National Drinking Water Standards - Plumbing Code of the Philippines - Code on Santtation - National Building Code - Constraints and required arrangements to - Constraints and required arrangements of P2.6.1 Invitational Hierarchical - System of the Philippines - T2.6.2 - Data Management - T2.6.4 - T2.6.5 - T2.6.5 - T2.6.5 - T2.6.5]	Description of Assessed	Water Code of the Philippine					
The Sector - National Drinking Water Standards - Plumbing Code of the Philippines - Code on Sanitation - National Building Code - National Building Code - National Building Code - Constraints and required arrangements to - Constraints and required arrangements to - Data Management - Data storage processing and retrieval - Data Management - Data Management - T. 6.4 - T. 6.4 - T. 6.5	Thispines Plumbing Code of the Philippines Code on Santation National Building Code Code on Santation Constraints and required arrangements to Bata Management Data storage processing and retrieval Data Management Data Management Ta.6.1 Institutional Hierarchical Ta.6.2 Structure of Questionnaire Ta.6.3 Structure of Questionnaire Ta.6.4 Ta.6.5 Ta.6.4	-	Megalinons Allecting	Difference Continued Code					
2.6 Planning Principles and Code on Sanntation National Building Code Constraints and required arrangements to Data Management Data storage processing and certificat 2.6.1 Planning Principles Data Management Data storage processing and certificat 2.6.2 Data Management 72.6.2 T.2.6.3 T.2.6.3 T.2.6.4	- National Drinking Water Standards - Plumbing Code of the Philippines - Code on Struttution - National Building Code - Constraints and required arrangements to Bia. Management and required arrangement and required arrangement and required processing and retrieval System of the Philippines T2.6.2 - Data storage processing and retrieval F2.6.2 Structure of Questionnaire T2.6.3 - T2.6.3 Figure of the Philippines T2.6.3 - T2.6.4 Figure of the Philippines T2.6.5 - T2.6.5 Figure Management T2.6.7		the Sector	· rumppine gavilonmental code					
- Plumbing Code of the Philippines - Code on Santation - Constraints and required arrangements to - Data Management - Data storage processing and retrieval - Data Management - Data storage processing and retrieval - Data Management - Data Management - Data Management - T2.6.1 - Pluming Principles - Constraints and required arrangement - Data storage processing and retrieval - T2.6.2 - T2.6.3 - T2.6.3 - T2.6.5	2.6.1 Planning Principles and Constraints and required arrangements to 2.6.2 Data Management 2.6.2 Data Management 2.6.3 Data Management 2.6.4 Planning Principles 2.6.5 Data Management 2.6.6 Data Management 2.6.7 Planning Principles 2.6.8 Structure of Questionnaire 7.2.6.7 T.2.6.7 T.2.6.7 T.2.6.7			- National Drinking Water Standards					
Code on Sanitation National Building Code Constraints and Cequired arrangements to F2.6.1 Institutional Hierarchical T2.6.1 Data Management Data storage processing and retrieval F2.6.2 Structure of Questionnaire T2.6.3 Co.2. Data Management T2.6.1 F2.6.1 Institutional Hierarchical T2.6.1 System of the Philippines T2.6.3 T2.6.3 T2.6.4 T2.6.5 T2.6.5 T2.6.5	- Code on Sanitation - National Building Code Data Management - Constraints and required arrangements to Data storage processing and retrieval Data storage processing and retrieval Data Management Data storage processing and retrieval Data Management T2.6.1 F2.6.2 Structure of Questionnaire T2.6.3 T2.6.4 T2.6.5 T2.6.5	==		- Plumbing Code of the Philippines					
2.6 Planning Principles and Constraints and required arrangements to P.2.6.1 Institutional Hierarchical T.2.6.1 undertake planning work 2.6.1 Planning Principles 2.6.2 Data Management T.2.6.2 Structure of Questionnaire T.2.6.3 T.2.6.4 T.2.6.5 T.2.6.8 T.2.6.8	2.6 Planning Principles and Constraints and required arrangements to Panning Principles and Constraints and required arrangements of System of the Philippines T2.6.2 Data storage processing and retrieval F2.6.2 Structure of Questionnaire T2.6.3 [72.6.4] Planning Principles T2.6.2 Data Management T2.6.4 [72.6.4] T2.6.5 [72.6.4] T2.6.5	==		Code on Suprention	•				
Planning Principles and Constraints and required arrangements to Data storage processing and retrieval Planning Principles Data Management Data Management T2.6.1 Institutional Hierarchical T2.6.2 System of the Philippines T2.6.3 F2.6.2 Structure of Questionnaire T2.6.3 T2.6.5 T2.6.5 T2.6.5	Planning Principles and Constraints and required arrangements to P2.6.1 Institutional Hierarchical T2.6.1 Data storage processing and retrieval System of the Philippines T2.6.3 Planning Principles Data storage processing and retrieval F2.6.2 Structure of Questionnaire T2.6.3 T2.6.4 T2.6.5 T2.6.5			A Communication of the Communi					
Planning Principles and Constraints and required arrangements to Data Management Data storage processing and retrieval Planning Principles Data Management T2.6.1 T2.6.5 T2.6.5 T2.6.5 T2.6.5 T2.6.5 T2.6.5 T2.6.5 T2.6.5	Planning Principles and Constraints and required arrangements to System of the Philippines 72.6.2 Data Management Data Management Data Management T2.6.2 Planning Principles Data Management T2.6.3 T2.6.3 T2.6.5 T2.6.5 T2.6.5 T2.6.5 T2.6.5			- National Building Code					
Planning Principles Data Management Data Management Data Management Data Management Data Management T2.6.2 System of the Philippines T2.6.3 T2.6.3 T2.6.4 T2.6.5 T2.6.5 T2.6.5	Planning Principles and Countries and Countr		•			1361	Party File Linkness		
Data Management Data storage processing and retrieval Planning Principles Data Management T2.6.3 T2.6.4 T2.6.5 T2.6.5 T2.6.5	Data Management Data storage processing and retrieval Planning Principles Data Management T2.6.5 T2.6.5 T2.6.5 T2.6.5 T2.6.5	o ci	Planning Principles and	Constitute and required an impenients to			Var. Darameter		
Planning Principles Data Management T2.6.4 T2.6.5 T2.6.5 T2.6.5	Planning Principles Data Management Data Management T2.6.4 T2.6.5 T2.6.8 T2.6.8	<u> </u>	Data Management			7.0.7	Section of the sectio		
Planning Principles Data Management T2.6.4 T2.6.5 T2.6.5 T2.6.5	Planning Principles Data Management T2.6.4 T2.6.5 T2.6.8			-		12.6.3	Composition of Well		
Data Management T2.6.4 T2.6.5 T2.6.5 T2.6.8	Duta Management 12.6.4 17.6.5 17.6.5 17.6.5 17.6.5 17.6.5 17.6.7 17.6.5 17.6.5 17.6.5 17.6.5 17.6.7 17.6.7 17.6.7 17.6.7 17.6.7 17.6.7 17.6.7 17.6.7 17.6.7 17.6.8	9:					Sources and Specific		
Data Management 72.6.4 72.6.5 72.6.5 72.6.5	Data Management T2.6.4 T2.6.5 T2.6.5 T2.6.5 T2.6.5 T2.6.5						Capacity		
T2.6.5 T2.6.7	72.6.5	2.6.2				T2.6.4	Annual Distribution of		
	T2.6.5 T2.6.7						Investment Cost Required		
	T2.6.5 T2.6.8						by Sub-sector for Medium-		
	T2.6.5 T2.6.8		- and -	-			term Development Plan		
	12.6.7					72.6.5	Level I Safe & Unsafe		
	12.6.7			-			Percentage		
	172.6.8	===				T2.6.7	Scoring Factor for Munici-		
	12.6.8						pat Investment Ranking		
	12.6.8	÷. <u></u>					for Urban Water Supply		
pal Comprehensive lavest-		·			•	T2.6.8	Scoring Factor for Munici-		
month Ranking							pal Comprehensive Invest-		
	The second secon						ment Ranking		

3

1

1

						Tables & Figures		
	Table of Contents	Contents		Main Report		Supporting Report		Data Report
~.	PROVINCIAL PROFILE							
<i>i</i> :	General	- Location of Province - Administrative composition	13,1.1 13,1.1	Location Map Outline of City/ Municipalities				
3.2	Natural Conditions and Geographical Features						T3.2.1	Flow Data of Major Rivers
32.	Meteorology	- Classification of climate by type and its characteristics - Average rainfall, temperature and wind direction						
3,2,2	Land Use	· Current land use	T3.2.1	Current Land Use				
3.2.3	Topography and Dramage	 Topographical characteristics of the province: mountains, major rivers and its flow rates, and water quality of typical rivers 	F3.2.1	Major River Networks Drainage Areas and Flow Rates of Major Rivers			······································	
٣.	Socio-economic Conditions							
33.	Economic Activities and Household Income	(1) Brief description on major economic activities (2) Discussion on (a) household income level	F3.3.	Distribution of Households by Income Class	T3.3.1	Distribution of Households by Income Class	T3.3.1	Number of Elementary School, High School and Other Served
		and (b) occupation	F3.3.2	Population Distribution by Occupation	T3.3.2	Gainful Workers by Occupation Group and Major Industry Group		Facilities
3.2.3	Basic Infrastructure	(1) Description on eutrent basic infrastructure in the province (roads, electricity, telecom, postal errories, transportation basicine)	T3.3.	Provincial Outline on Public Services				
		facilities, tourism facilities, schools, etc.)	T3.3.2	Public Eacilities and Services by Municipality	<u></u> -		<u></u>	

-								
						Tubles & Figures		
	Table of Contents	Contents		Main Report		Supporting Report		Data Report
<u> </u>		(2) Discussion on public facilities and services (schools, public markets, banks and hospitals) by municipality						
3.3.3	3.3 Education	Description on (a) education levels and (b) literacy level	F3.3.3	Population Distribution by Highest Attainment of Education	T3.3.3	Household Population by Highest Educational Attainment		
<u>س</u> ا	. Population		. '					
+† - **	5.1 Previous Population Development	(1) Population data of NSO for the census periods from 1960 to 1990 together with projected (1995) population	T3.4.1	Previous Population Development by Municipality				
		(2) Special issues, if any, which affected the present population of the province, i.e., special development and those of Mr. Pinatubo eruption in 1991	13.4.	Previous Population Development of the Province				
<u></u>	3.4.2 Classification of Urban and Rural Areas	(1) Urban and rural areas classified at barangay level based on the definition of NSO	F3.4.2	Present Population Distribution	F3.4.1	Distribution of Urban and Rural Arens		
		(2) Re-classification of urban and rural areas based on actual condition by PSPT	13,4,2	Outline of Urban and Rural Areas in the Province				
<u></u>	3.4.3 Present Population Distribution	(1) No. of barangays, households & population, household size by urban and rural area	T3.4,3	Household Numbers and Household Sizes				
۲.	5 Health Status							
M. M	3.5.1 Morbidity, Mortality and Infant Mortality	Ten leading causes of morbidity, mortality and infant mortality and comparison with national level Identification and rank of diseases related to water among the 10 leading causes	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 Monicipality (Annual Incidence per 100,000 Persons)
].	Questionnaire form	Table - T. Figure - F						

1

				Tables & Figures	gures		
	Table of Contents	Contents	Main Report	Supporting Report			Data Report
3.5.2	₹	 Classification of water-borne, based, washed. vector related diseases Enumeration of water related diseases and their incidence Discussion on the health implications of sanitation 	T3.5.2 Reported Cases and Deaths of Notifiable Water Related Diseases. (Year)	·			
3.5.3	3 Health Facilities and Practitioners	 No. of medical facilities and practitioners, its ratio to population and comparison with national level 		F3.5.1 Number and Ratio to Population of Health Facilities and Medical Practitioners		T3.5.2	Number of Health Facilities and Practi- tioners by Municipa- ity
٥ 			1, .				
9	1 General	 Scope of the subject limited to the sector 			 , ,		
2.5	3.6.2 Water Pollution	 Evaluation of existing drainage system, its function as a disposal point of domestic wastewater Evaluation of industrial wastewater dis- 	į.	T3.6.1 DENR Water Quality Criteria/Water Usage and Classification for Presh Water	<u>.</u>	13.6.1	Municipat Solid Waste Collection and Dispo- sal by Municipality
		charge - Existing classification of rivers in terms of water quality and extent of water pollution of water bodies					
	3 Solid Waste Disposal	Evaluation of solid waste collection and disposal	T3.6.1 Municipal Solid Waste Collection and Disposal, and Service Coverage				
<u></u>	ENISTING FACHLITIES AND SERVICE COVERAGE						
<u></u>	Water Sopply General	(1). Types and composition of existing water sapply facilities by service level		T4,1,1 Details on Existing Level III Systems	ng Level		
] ,	* Ouestionnaire form	Table - T, Figure - F					

0

1

						Tables & Figures	D. de D. December
	Table of Contents	Contents		Main Report		Supporting Report	Data Keport
1.5	4.1.5 Level Facilities	(1) Description of existing Level I facilities: - No. of operational and non-operational	T4.1.5	Information on Existing Level I Facilities	T4,1,3	Percentage of Unsafe Water Sources by IPHO	
		- Safe and unsafe sources - Ownership by public and private	T4.1.6	Operating Status of Existing Wells in the Province	T4.1.4	No. of Level-1 Facilities by Safe and Unsafe Classifica- tion	
		(2) Problem areas: Needs for rehabilitation and replacement of existing facilities			T4.1.5	Estimation of Unserved Population by Municipality	
9 -	Water Supply Service Coverage	(1) Criteria of adequate service based on the national standard	T4 1.7	Water Supply Service Coverage by Municipality	T4.1.6	Estimation of Population Covered by Safe and Unsafe	
		 (2) Service coverage (percent of population served by safe sources) in urban and rural areas by municipality (3) On-going projects by municipality 	<u> </u>	Water Supply Coverage of the Province Existing Water Supply Service Covrage Map			
C.	Sanitation and Sewerage		<u></u>				
ij	General	Brief discussion of government policies/ guidelines on sanitation and sewerage as spelled out in the Code of Sanitation and NUSSMP Coverage of the PW4SP (HH, school toilets)	· · · · · · · · · · · · · · · · · · ·				
		and public toilets)			-		
ci ci	-	• DOH/DECS classification by service level • Types of toilet facilities considered as sani-			74.2.	Standard Structure of Private Toilet Facility	
	Standard	ary and unsantary in this sector plan Definition of served and underserved/ unserved			F 5.5	Sundard Structure of School Toilet Facility	

						Tables & Figures		
	Table of Contents	Contents		Muin Report		Supporting Report	Data Report	
 	Sanitation Facilities and							
	Service Coverage		: 					
	(1) Household Toilets	- No. of Households with sanitary toilet	T4.2.1	Sanitation Facilities and	T4.2.1	Sanitation Facilities and		
		facilities and underserved, by municipality		Service Coverage of		Service Coverage of House-		
				Household Toilets, Urban		hold Toilers, by Type, by		_
		- Service coverage (percent of household	· · · ·	and Rural, 1994		Municipality, Urban and	-	
······		with sanitary topic facilities and onder- carved/inversed in triban and circal area	F2.2	Provincial Service Coverage		100		
marin -		by municipality	<u> </u>	of Household Toiler				•
				Facilities, 1994		-		
			F4.2.2	Existing Household Torlets				
				Service Coverage Map				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of Station of Many Local Postson	7422	School Toiler Facilities and				
	Shoot and Public	tro, or period, and profile folicity by	7.7.6	Complete Comments in 1004				
	oriets	manethanity		Oct vice Coveringe III 1774				
		Service coverage (percent of students	T4.2.3	Public Toilet Facilities and				
		and actification and analysis of security and security and		Service Coverage in 1994				
		poocool of weble utilities with sunitary		3				
		The section of particular and a section of the sect						
· 		14C11C3/						
	(3) On-going Projects	- On-going projects by municipality						
		(service coverage)						-
	(4) Problem Areas	Common problems encountered with						
,		regards to physical and social standpoints						
-t -t	Sewerage Facilities	 Presence/absence of sewerage facilities. If 						
••		none, description of existing condition on						
		sewage disposal						
200		 If present, description of sewerage system 				output and the second		
Š	* Questionnaire form	Table T, Figure F						

T

1

				Tables & Figures	
	Table of Contents	Contents	Main Report	Supporting Report	Data Report
<u>i.</u>	EXISTING SECTOR ARRANGEMENTS AND INSTITUTIONAL CAPACITY				
<u>~</u>	General				
Č.	Sector Reforms	NEDA Board Resolution No. 4 NEDA Board Resolution No. 5			
<u></u>	Sector Institutions	- Existing Institutional Arrangements - Sector Financing	PS.3.1 Functional Relationships		
2 - 9	Sector Agencies at the National Level	(To be discussed for each of the major agencies)			
<u></u>	(I) DITC	- Existing mechanisms and processes to			
, -7	(2) LWUA	municipalities and barangays (financial, technical and institutional)			
	(3) DPWH	- Mechanisms for coordination and collabora- tion with LGUs		:	
,	1100 (+)	- Existing capacity of national agency to implement sector projects (technical,			
	(S) Other Agencies (NEDA, DOE, NWRB.	financial, institutional) • Actual programs being implemented by			
·	DBM, DENR, DECS,	national sector agencies focusing on transfer of appropriate technologies and approaches			
	(G2.11)	- Actual experiences and practices of national agency in project implementation			
j.	* Questionnaire form	Table - T. Figure - F			

Typike of Counters Sector Agentoes at the Contents Contents description of mandate and Contents Contents description of mandate and Contents Contents description of mandate and Contents described by Proportion and Palanting Contents described							
Ceneral description of the agencies) General description of mandate and expansibility Present expansity of local aginey to undertriske; the LOU level within the sector - Project continuation - Project implementation - Actual experiences (Refer to Chap 6) - Actual experiences (Refer to Chap 6) - Actual experiences (Refer to Chap 6) - Actual experiences and prainties of leval agencies on preject implementation - Monitoring and evaluation - Financial recondination and collabora- - Actual experiences and prainties of leval agencies on preject implementation - Actual experiences and principation - Actual experiences and program - Actual experiences and program - Actual experiences and principation - Actual experiences and program - Ac	Table o	f Contents	Contents	Main Report	9	Supporting Report	Data Report
Ceneral description of mandate and responsibility Present capacity of local agency to under- take: the LGU level within the sector The propert identification and princity-setting Establishment of community-based organization Project preparation and planning Adminion and evaluation Adminion and evaluation Actual experiences and practices of leveal accordinate and monitoring of program Actual coordinate and monitoring of program Actual of private sector participation Linkage with national government agencies CBIOA) The World Bank (IBRD) The United Nations Development Program and the United Nations Children's Fand							
Ceneral description of mandate and responsibility Present capacity of local agency to under- take: the LGU level within the sector • Project redutification and priority-setting • Establishment of community-based organization • Project preparation and planning • Project preparation • Project p	Sector Age	incres at the	(To be discussed for each of the agencies)				
Ceneral description of mandate and responsibility responsibility Present capacity of local agency to undertrake: the LGU level within the sector Project identification and priority-setting Establishment of community-based organization Project preparation and planning Project preparation and planning Project propertion and planning Project project implementation Financial resources of (Refer to Chap 6) Actual experiences and pratters of leval agencies on project implement, on hevel among local offices to implement, on level among local offices to implement. Central Central Acetanism for coordination and collaboration Acetanism for coordination and collaboration Coordinate and monitoring of program Activities Estoric of private sector participation Linkage with national government agencies The World Bank (IBRD) The United Nations Development Program and the United Nations Children's Fund Anthropous Children's Fund Anthropous Children's Fund	Local Levi	7.7					
cesponsibility Present tapacity of local agency to under- take: the LGU level within the second Project referrification and priority-setting Project implementation Project preparation Project p			- General description of mandate and				
Present capacity of local agency to under- take: the LGU level within the sector * Project identification and priority-setting * Establishment of community-based organization * Project implementation * Project preparation and planning * Project implementation * Operation and maintenance * Monitoring and evaluation Financial recoverse (Relefa to Chap 6) - Actual experiences on project implementation - Mechanism for coordination and collabora- tion level among local offices to implement evordinate and monitoring of program agencies on project implementation - Linkage with national government agencies - The World Bank (13RD) - The World Bank (13RD) - The United Nations Development Program and the United Nations Children's Fund - An Orlean Pations Children's Fund	(1) Provin	icial Level	responsibility				
take: the LGU level within the sector Project identification and priority-setting Gasablishment of community-based organization Project preparation and planning Project implementation Operation and maintenance Monitoring and evaluation Financial resources (Refer to Chap 6) Actual experiences and practices of local agencies on project implementation Mechanism for coordination and collabora- (ion level among local offices to implement, coordinate and monitoring of program activities Extent of private sector participation Linkage with national government agencies The World Bank (1BRD) The Maions Development Program and the United Nations Children's Fund Antonical Pations (Program and the United Nations Children's Fund)Cdd -	C	Present capacity of local agency to under-		5.5.	Organization Chart of the	
Freject identification and priority-setting Establishment of community-based organization * Project preparation and planning * Project implementation * Operation and maintenance * Monitoring and evaluation Financial experiences and practices of local agencies on project implementation * Mechanism for coordination and collaboration * Mechanism for coordination and collaboration * Mechanism for coordination and collaboration * Mechanism for coordination * Mechanism for coordination * Mechanism for coordination * Actual experiences and practices to implement, coordinate and monitoring of program activities * Extent of private sector participation * Linkage with national government agencies * The World Bank (UBRD) * The Asian Development Bank (ADB) * The United Nations Children's Fund * Asian Development Program * And United Nations Children's Fund	- PEO		take: the LGU level within the sector	•		OOdd	
* Establishment of community-based organization * Project preparation and planning * Project preparation and planning * Project preparation and planning * Project implementation • Project implementation • Financial resources (Refer to Chap 6) • Actual experiences and practices of local agencies on preject implementation • Mechanism for coordination and collaboration and collaboration local offices to implement, econdinate and monitoring of program activities • Extent of private sector participation • Linkage with national government agencies • The World Bank (IBRD)	PHO -		* Project identification and priority-setting				
* Project preparation and planning * Project implementation * Operation and maintenance * Monitoring and evaluation Financial experiences (Refer to Chap 6) - Actual experiences on preject implementation Mechanism for coordination and collabora- tion level among local offices to implement, econdinate and monitoring of program activities Extent of private sector participation - Linkage with national government agencies The World Bank (IBRD) - The World Bank (IBRD) - The World Saunk (IBRD) - The World Saunk (IBRD) - The Linkage with national government spences			Establishment of community-based		F5.5.2	Organization Chart of PEO	
* Project preparation and planning * Project implementation * Operation and maintenance * Manitoring and evaluation Financial resources (Refer to Chap 6) - Actual experiences and practices of local agencies on project implementation * Mechanism for coordination and collabora- tion level among local offices to implement, coordinate and monitoring of program activities Extent of private sector participation - Linkage with national government agencies - The World Bank (BRD) - The World Bank (BRD) - The United Nations Children's Fund - And the United Nations Children's Fund	(2) Munic	ipal and Barangay	organization			- •	
Project implementation Operation and maintenance Monitoring and evaluation Financial resources (Refer to Chap 6) - Actual experiences and practices of local agencies on project implementation Mechanism for coordination and collabora- tion level among local offices to implement, coordinate and monitoring of program activities Extent of private sector participation Linkage with national government agencies The World Bank (IBRD) The World Bank (IBRD) The United Nations Development Program and the United Nations Children's Find	Levels		* Project preparation and planning		75.5.3	Organization Chart of	
	DGM -		* Project implementation			OHA	
	- NEC	_	* Operation and maintenance				
	Bara	ngay Councils	" Monitoring and evaluation				
	RIIU	WBIIS	Financial resources (Refer to Chap 6)				
		٠	- Actual experiences and practices of local				
	(3) Field	Offices of Central	agencies on project implementation		. <u>-</u>		
DEO MLGOO RO and RDC Stricts reluding CBOs) port Agencies Sector real Agencies	Sector	r Agenetes	· Mechanism for coordination and collabora-				
MLGOO RO and RDC stricts relading CBOs) port Agencies Sector real Agencies	NdC ·	/H DEO	tion level among local offices to implement.				
RO and RDC istricts reluding CBOs) port Agencies Sector real Agencies	· DILL	S P/MLGOO	coordinate and monitoring of program			•	
istricts reluding CBOs) port Agencies Sector real Agencies	CEN.	A RO and RDC	activities				
istricts reluding CBOs) port Agencies Sector real Agencies			- Extent of private sector participation				
ncluding CBOs) port Agencies Sector real Agencies	Onem (+)	r Districts	Linkage with national government agencies				
ncluding CBOs) port Agencies Sector real Agencies	(5) RWS.	Ä					
neluding CBOs) port Agencies Sector real Agencies	(6) BWS.	A.S.	-				
	(7) Others	cineluding CISOs)					
	External 2	Support Agencies					
	Active in	the Sector					
- The United Nations Development Program and the United Nations Children's Fund	(!) Multi	flateral Agencies	The World Bank (IBRD)				
and Control Nations Children's Fond			The Caired Nations Development Development				
AND CONTROL CONTROL OF THE CONTROL O			The Chick Dations Development of the contract				
			and the Chiefe National Contents of the		 -		

_			2	Tables & Frences		_
	Table of Contents	Contents	Main Report	Supporting Report	Data Report	
<u> </u>						
	(2) Bilateral Agencies	The Japan International Consecution				
		August (HCA)				
		The Original Commence of the C				
		. The Overseas economic Cooperation range		•		
		(0.5.7.)				
		- The Australian International Development				
		Assistance Bureau (AIDAB)				
		- The Danish International Agency (DANIDA)				
		KIW				
	-	. The Royal Government of the Notherlands				
<u>-</u>	(5) NCOs and Private					
	Sector		,			
1	{					
5.7	Current Community					
	Development and Training					
	Approaches					
					•	
7	Committee Development	Existing Cl appropriate to account a material	:			
: i		the state of the s				
		pation of local beneficiaries				
 .		- Experiences/practices on participation of				
		project beneficiaries				
		- Financial contributions from beneficiaries				
		- Strategies for targeting involvement of	-			
		womyn		•		
·		 Organization and training of beneficiaries 				
5.7.5	2 Human Resources Develop-	- Staffing situation (quality and quantity)				
	ment & Training	- Existing training programs of sector agencies				
		and mechanisms for implementation				
		(technical and management training)				
		· Access to technical information				
		 Available training and information macrials 				
- -		* Types and contents				
		* Mode of dissemination		-		
Ċ	Control of the Contro	Table 1 Brown S	With the second			

	Table of Contents	Contents	Main Report	Supporting Report	Data Report
	· .	 Actual experiences and practices of sector agencies 			
5.7.3	Sanitation/Hygrene Education	- Existing health/hygiene education programs of sector agencies and mechanisms for			
		implementation * DOH (Implementing program on Public			
		Toilets			
		* DECS (Implementing program on School Toilets)			
		Mechanisms and resources for mass dissemination of information and other social			
		marketing programs			
		· Hygiene educational materials available			
	•	* Types and content * Mode of dissemination			
		Actual experiences and practices of sector agencies (national-and local-level)			
99 V	Existing Sector Monitoring				
	(1) National Level (2) Local Level				
si.	PAST FINANCIAL PERFORMANCE IN WATER SUPPLY AND				
	SANITATION				
Q. 1	General	- Basic idea and brief contents of this chapter.			
	6				

Û

[Table of Contents	Contents		Main Report		Tables & Figures Supporting Report	Data Report	
<u>l 🖳</u>	6.2.1 Past Public Investment by the Central Government Agencies and LGUs	(1) Study on the previous public investment to the province by concerned agencies	T6.2.1 Pr	investment by Con-	T6.2.1	Past Internal Revenue Alfotment to Municipalities from Central Govern-		
	6.2.2 Sources of Local Fund	(2) Role of past IRA in the provincial finance (profile of sector investment to allotted IRA in the province)	T6.2.2 C B O	Past Internal Revenue Allot- ment to the Province from Central Government		ment.		
	3 Cost Recovery	- Study on cost recovery in water supply by service level and sanitation (WD, RWSA and BWSA)	· · · · · · · · · · · · · · · · · · ·		·			
	4 Affordability	 Affordability of water rates by service level and sanitation costs by users in comparison with income level 	T6.4.1 A	Affordability in Water and Sanitation Services				
<u>s</u> 13	6.5 Past Financial Performance of WDs and RWSAs/BWSAs	- Study on past financial performance of WDs RWSAs/BWSAs	T6.5.1 F	Financial Indicators of Water Districts				
			T6.5.2 L	Loan Status of Water Districts				
<u></u>	WATER SOURCE DEVELOPMENT							
<u> </u>	.1 General		:					
	(1) Appreach and Outputs	 Available water sources and their application to suit the locality Study approach with justification focusing on groundwater 	· · · · · · · · · · · · · · · · · · ·					
 -		Water Availability Map & standard well specification	1 1		·			
J ,	* Questionnaire form	Table - T. Figure - F						

Table of Candon Table of C					Tables & Figures		
(a) Essare Daan/Kepnt with Thinkation of Conditions Thinkations Thi		The state of the state of	Contents	Main Report	Supporting Report	Data Repor	t
Conditions and become and bydrogeological maps used Conditions and innations) Conditions		tanco concur					
Conditions (3) Uniformum and Up (4) Existing Water Sources (5) Uniformum and Up (6) Uniformum and Up (7) Uniformum and Up (7) Uniformum and Up (8) Uniformum and Up (9) Conditions (9) Existing Water Sources (9) Existing Water Sources (9) Existing Water Sources (9) Existing Water Sources (9) Consideration of gests and Water Sources in the T7.1.1 Existing Groundwater province p		On Green Details and	boxu squar fengaloagorbyil but strong round.				
(3) Utilization and Up. - Existing Water Sources (4) Existing Water Sources (5) Utilization and Up. - Updating methods clerifying what fraction (b) Existing Water Sources (c) Description of certaing water sources in the Province (c) Description of certaing water sources in the Province (c) Observation of solding rack units (c) Observation of solding rack units (c) Observation of certaing water sources in the Province (c) Observation of certaing water took units (c)			as basis of the study (with conditions and				
(3) Unfortation and Up——Manner of out-put in PWASP duting can be modified and updated in the Prevince Goology (2) Unfortation and Up——Manner of out-put in PWASP (3) Unfortation of certaing valer-batters in the Province in the Prevince Goology (3) Unfortation of goologie rock units (4) Existing Water Sources (5) Charaffaction of goologie rock units (6) Goological Map (77.1.1 Existing Groundwater Province Flucture and Old rock units and their province in the Province (6) Surfaction of Charaffaction of Cach rock units and their proportion by municipality (7) Definition and classification of goological Map (77.3.1 Goological Map (77.3.1 Goological Map (77.3.1 Map (77.3.1 Map (77.3.1 Work Baw of Groundwater Availability Map (19) Shallow Well Area (10) Shallow Well Area (11) Shallow Well Area (11) Shallow Well Area (11) Shallow Well Area (12) Shallow Well Area (13) Shallow Well Area (14) Shallow Well Area (15) Shallow Well Area (15) Shallow Well Area (16) Shallow Well Area (17) Shallow Well Area (17) Shallow Well Area (17) Shallow Well Area (18) Shallow Well Area (19) Shallow Well Area (10) Shallow Well Area (11) Shallow Well Area (12) Shallow Well Area (13) Shallow Well Area (14) Shallow Well Area (15) Shallow Well Area (16) Shallow Well Area (17) Shallow Well Area (18) Shallow Well Area (19) Shallow Well Area (10) Shallow Well Area (11) Shallow Well Area (12) Shallow Well Area (13) Shallow Well Area (14) Shallow Well Area (15) Shallow Well Area (16) Shallow Well Area (17) Shallow Well Area (17) Shallow Well Area (18) Shallow Well Area (19) Shallow Well Area (10) Shallow Well Area (10) Shallow Well Area (11) Shallow Well Area (12) Shallow Well Area (13) Shallow Well Area (14) Shallow Well Area (15) Shallow Well Area (16) Shallow Well Area (17) Shallow Well Area (17) Shallow Well Area (18) Shallow Well Area (19) Shallow Well Area (19) Shallow Well Area (10) Shallow Well Area (10) Shallow Well Area (11) Shallow Well Area (12) Shallow Well Area (1			Limitations				
duting the bounce of cast in the materials. (3) Utilization and Up. (4) Existing Water Sources (5) Existing Water Sources (6) Existing Water Sources (7) Existing Water Sources (7) Existing Coondwater (6) Existing Water Sources (7) Existing Coondwater (7) Existing Coondwater (8) Existing Coondwater (9) Existing or of cast incex units and their (9) Existing or of cast incex units and their (1) Existing Coondwater (1) Existing Coondwater (2) Existing Coondwater (3) Existing Coondwater (4) Existing Coondwater (5) Existing Coondwater (6) Existing Coondwater (7) Existing Coondwater (7) Existing Coondwater (7) Existing Coondwater (8) Existing Coondwater (9) Existing Coondwater (1) Existing Coondwater (1) Existing Coondwater (1) Existing Coondwater (2) Existing Coondwater (3) Existing Coondwater (4) Existing Coondwater (5) Existing Coondwater (6) Existing Coondwater (7) Existing Coondwater (7) Existing Coondwater (7) Existing Coondwater (7) Existing Coondwater (8) Existing Coondwater (9) Existing Coondwater (1) Existing Coondwater (1) Existing Coondwater (1) Existing Coondwater (1) Existing Coondwater (2) Existing Coondwater (3) Existing Coondwater (4) Existing Coondwater (5) Existing Coondwater (6) Existing Coondwater (7) Existing Coondwater (8) Existing Coondwater (9) Existing Coondwater (1) Existing Coondwater (2) Existing Coondwater (3) Existing Coondwater (4) Existing Coondwater (5) Existing Coondwater (6) Existing Coondwater (7) Existing Coondwater (8) Existing Coondwater (8) Existing Coondwater (9) Existing Coondwater (1) Existing Coondwater (1) Existing Coondwater (1) Existing Coondwater (1) Existing Coon			Effective data to supplement the base				
during during during can be modified and updated can be modified and updated in the Province can be modified and updated of conditions of goodogic rock units can be modified and updated conditions of goodogic rock units can be modified and updated conditions of goodogic rock units conditions of cash rock units and their proportion of cash rock units and their proportion of cash rock units and their proportion of cash rock units conditions and classification of groundwater for units conditions and classification of groundwater for the Province can be province can be marked for the province for the provinc		:	materials			-, 	
(3) Utilization and Up. (4) Utilization and Up. (5) Utilization and Up. (6) Existing Water Sources (7) Existing Water Sources (7) Existing Occumulated and updated (7) Existing Countly and Updated (8) Utilization of geologic rock units (9) System Recent. Placeace to Pleistocene. (9) Strainer Sources (1) Strainer Sources (1) Strainer Sources (2) System Recent. Placeace to Pleistocene. (3) System Recent. Placeace to Pleistocene. (4) Existing Countly and Old rock units (5) System Recent. Placeace to Pleistocene. (6) System Recent. Placeace to Pleistocene. (7) Existing Countly and Old rock units and their proportion by municipality (7) System Recent. Placeace to Pleistocene. (7) Utilization of Ground-water Sources (8) System Recent. Placeace to Pleistocene. (9) System Recent. Placeace to Pleistocene. (1) System Recent. Placeace to Pleistocene. (2) System Recent. Placeace to Pleistocene. (3) System Recent. Placeace to Pleistocene. (4) System Recent. Placeace to Pleistocene. (5) System Recent. Placeace to Pleistocene. (6) System Recent. Placeace to Pleistocene. (7) System Recent. Placeace to Pleistocene. (8) System Recent. Placeace to Pleistocene. (8) System Recent. Placeace to Pleistocene. (9) System Recent. Placeace to Pleistocene. (9) System Recent. Placeace to Pleistocene. (1) System Recent. Placeace to Pleistocene. (1				-			
during - Updating methods carriery with likewin - Updating methods carriery with likewin - Updating methods carriery with likewin - Updating methods carriery with likewing Geological Map (3 types). Recent. Pleacete to Pleastection of gashagic rock units (3 types). Recent. Pleastection of gashagic rock units (3 types). Pleastection of cach rock units and their proposition by municipality proposition by municipality (3 types). Definition and classification of groundwater Sources (Classification of Groundwater Sources). Definition and classification of groundwater Map (37.3.1 Groundwater Availability in the Province (3 types). Shallow well area (with high yield area). deep well area (with high yield area). deep well area (4 thinking the dates). Shallow well distribution of Shallow well distribution. Shallow well area (4 thinking the dates). Table 1.1 Shallow Well Area (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Map (4 thinking the Transferon of Groundwater Mail Availability Ma	-	(3) Utilization and Up-	- Manner of out-put in PW4SP				
(4) Existing Water Sources - Description of existing water sources in the Province province - Classification of geologic rock units in the Province - Classification of geologic rock units and their proportion by municipality - Distribution of cach rock units and their proportion by municipality - Distribution of cach rock units and their proportion by municipality - Ilydrogeolocial characteristics of cach units - Classification of groundwater and classification of groundwater and classification of groundwater as sources - Abdition and classification of groundwater as a sources - Abdition and classification of groundwater as a source of coundwater Availability and - Shallow well area (with high yield area) - difficult area - Shallow well distribution - Shallow well area (with high yield area) - Shallow well distribution - Shallow well distribution - Shallow well distribution - Shallow well area (with high yield area) - Shallow well distribution - Shallow well area (with high yield area) - Shallow well distribution - Shallow well area (with high yield area) - Shallow well area (with high yield area) - Shallow well area (with high yield area) - Shallow well distribution - Shallow well area (with high yield area) - Shallow well area (with high yield area) - Shallow well distribution - Shallow well area (with high yield area) - Shallow well area (with high yield area) - Shallow well distribution - Shallow well distribution - Shallow well distribution - Shallow well area (with high yield area) - Shallow well distribution - Shallow well area (with high yield area) - Shallow well area (Suring	- Updating methods clarifying what lactors				
(4) Existing Water Sources province province and Old rock units of geological on the Province province province and Old rock units and their province (3 types: Recent, Pincaene to Picistocene, Picistocene, Picistocene and Old rock units and their proposition by municipality (3 types: Recent, Pincaene to Picistocene,			כיוון ספ וווספווו וכס יווס מלאווינים				
Geology Geology Geological Map Classification of geologic rock units Pleistocene and Old rock units) Distribution of each rock units and their proportion by municipality Distribution of cach rock units and their proportion by municipality Ilydrogeolocial characteristics of each units Groundwater Sources Definition and classification of groundwater (77.3.1 Groundwater Availability water Sources Audicontendwater Availability Thy act of difficult area Groundwater Availability Thy act of a factor of the high yield area) deep well area (with high yield area) Availability Map Availability Map Thy 3.1 Work Flow of Groundwater Availability Map Availability Map		(2) Existing Water Sources	- Description of existing water sources in the				33
Coology (3 types: Recent. Plitocene, Pleistocene, Pleisto		in the Province	province	Sources in the Province		Information	_
Casalogy (3 types: Recent. Placene to Pleistocene. Pleistocene and Old rock units. Distribution of cach reck units and their proportion by municipality Distribution of cach reck units and their proportion by municipality Hydrogeolocial characteristics of each units. Classification of Ground- sources Definition and classification of groundwater (17.3.1 Groundwater Availability Sources sources sources shallow well area (with high yield area) deep well area (with high yield area) deep well area (with high yield area) deep well difficult area (1) Shallow Well Area Table- T. Frence B							
Groundwater Sources Classification of Ground- water Sources Chastification of Ground- Chast	7.2	Geology	- Classification of geologic rock units				
Presocene and Old rock units) - Distribution of each reck units and their proportion by municipality - Hydrogeolocial characteristics of each units Croundwater Sources - Definition and classification of groundwater received area (with high yield area) - deep well area (with high yield area) - deep well area (with high yield area) - difficult area Groundwater Availability in the Proxince (1) Shallow Well Area (27.3.1 Work Plaw of Groundwater Availability Map Availability Availability In the Proxince (1) Shallow Well Area (27.3.1 Work Plaw of Groundwater Availability Map Availability Map			(3 types: Recent, Plincope to Pleistocene,				
Croundwater Sources Classification of Ground- water Sources Caundwater Availability - Hydrogeolocial characteristics of each units Classification of Ground- water Sources - Definition and classification of groundwater Sources - Shallow well area (with high yield area) - difficult area Croundwater Availability - difficult area - difficult area - Shallow well distribution Table - T. Shallow well distribution Table - T. Shallow Well Area			Pieistocene and Old rock units)				
Croundwater Sources Classification of Ground delassification of groundwater Classification of Ground Sources - Definition and classification of groundwater Sources - Shallow well diviribation (1) Shallow Well Area Table - T. Sharlow Well Area			The state of the s				
Croundwater Sources Classification and classification of groundwater Water Sources Shallow well area (with high yield area) Geoundwater Availability in the Province (1) Shallow Well Area Table - T. Shallow well distribution Table - T. Shallow Well Area			Assessment for the property of				
Croundwater Sources Classification of Ground- Sources Sources Sources Sources Sources Sources Sources Sources Shallow well area (with high yield area) Groundwater Availability In the Proxince Shallow well distribution Table - T. Shallow Well Area Table - T. Shallow Well distribution Table - T. Shallow Well Area Table - T. Sh			- Hydrogeologial characteristics of each units				
Croundwater Sources Classification of groundwater Classification of groundwater Sources - shallow well area (with high yield area) - deep well area (with high yield area) - deep well area (with high yield area) - difficult area Groundwater Availability in the Province (1) Shallow well distribution (2) Shallow Well Area - Shallow well distribution (3) Shallow Well Area -							
Classification of Ground- water Sources sources - shallow well area (with high yield area) - deep well area (with high yield area) - difficult area (i7.3.1 Groundwater Availability (i7.3.1 Work Flow of Groundwater Availability Map (i7.3.1 Work Flow of Groundwater Availability Map (i7.3.1 Work Flow of Groundwater Availability Map (i) Shallow Well Area (i7.3.1 Work Flow of Groundwater Availability Map (ii) Shallow Well Area (iii) Shallow Well Area (iii) Shallow Well Area	7.3	Groundwater Sources					tery by
Classification of Ground- water Sources water Sources - shallow well area (with high yield area) - deep well area (with high yield area) - difficult area Groundwater Availability in the Province - Shallow well distribution						Municipalit	ž:
water Sources - shallow well area (with high yield area) - deep well area (with high yield area) - difficult area	7.3.1	Classification of Ground-	- Definition and classification of groundwater				
- shallow well area (with high yield area) - deep well area (with high yield area) - difficult area - Shallow well distribution - Shallow well distribution - Shallow well distribution - Shallow well distribution		water Sources	sources	Map			
Groundwater Availability in the Province (1) Shallow Well Area Table - T. Sharlow Well distribution			- shallow well area (with high yield area)				
Geoundwater Availability in the Province (1) Shallow Well Area Shallow well distribution (2) Shallow Well Area Shallow well distribution (2) Shallow Well Area Shallow Well distribution			- deep well area (with high yield area)			-	
Groundwater Availability in the Province (1) Shallow Well Area Shallow well distribution Table T. Starte F	<u> </u>		י קונויכתוו מבש				
Groundwater Availability in the Province (1) Shallow Well Area Shallow well distribution Table T. Figure - E							
Welt Area Shallow well distribution Table T Freure - F	2.7.	Groundwater Availability					
Well Area - Shallow well dis		in the Province			• .	- -	
Table T.		(1) Shallow Well Area	Shallow well distribution				
		timopaire form	Table T. Pruce F				

1

					Tables & Figures			5
	Table of Contents	Contents	Main Report		Supporting Report		Data Report	1
L		- Technical information of shallow well (Depth, SWL, SPC-CP)		F7.3.2	Groundwater Potential Area in the Province			
	(2) Deep Well Area	 Deep well distribution Technical information of deep well (Depth, SWL, SPC-CP) 		F7.3.3	Potential Areas of High Yielding and With Salt Intrusion Problem			
	(3) Difficult Area	 Distribution and proportion of difficult areas Geological & Topographical characteristics of the area 		F7.3.4	Area Category in Ground- water Utilization			
	(4) Water Quality of Groundwater	- Possible area of salt water intrusion - Iron & Manganese problem area						
<u> </u>	Spring Sources	- Distribution of spring sources - Technical information		. 17.4.1	Existing Spring Sources by Municipality	. 		
7.5	Surface Water Sources	- Major rivers in the province - Typical feature of the river both in quality		F7.5.1	Study River Basin and Water Sampling Points			
				17.5.1	River Information and Related Data	77.5.1	Water Quality Exami- nation Results	
+ 				17.5.2	Water Quality Analysis Results			
7.6	Future Development Potential of Water Sources	Potential water sources in each municipality (especially for rural area) with standard		T7.6.1	Existing Well Sources	17.6.1	Individual Well Loca- tion and Specifications	
		specifications by well type (shallow well, deep well, and spring)		17.6.2	Standard Specifications of Wells by Municipality		Map	
,								
<u>J</u> .	" Ouestionnaire form	Table T. Pigure - F						1

S. FULLE RECOURTEMENTS NATURE SUPPLY AND NATURE S						
FUTURE REQUIREMENTS IN WATER SUPPLY AND SANITATION IMPROVE- MENT General (1) (2)		Table of Contents	Contents	Main Report	Supporting Report	Data Report
IN WATER SUPPLY AND SANITATION IMPROVE- MENT General (1) (2)	يريا	FUTURE REQUIREMENTS				
SANITATION IMPROVE. MENT General (1) (2)	<u> </u>	IN WATER SUPPLY AND				
MENT General (1) (2)		SANITATION IMPROVE-				
General (1)	.	MENT				
	 	General	(1) Physical targets			
			· Provincial sector targets in context of the			
			National Sector Master Plan and the			
			National Medium-Term Development Plan			
			 Population to be served by target year based 			
			on the NSO population projection and			
		٠	broken down to urban and rural areas at			
			nunicipal level by sub-sector			
			 Public school students to be served by target 			
	·		year based on projected school enrollment			
			at municipal level			
year at municipal level Physical requirements Required facilities classified by un tural areas by sub-sector with imp tion criteria Equipment for construction, rehat and O&M be identified Identification of priority projects. Criteria for identifying priority pr Priority projects by sub-sector			- Projected number of public utilities by target			
Physical requirements Required facilities classified by urrural areas by sub-sector with imption criteria Equipment for construction, rehab and O&M be identified Criteria for identifying priority properties Priority projects by sub-sector			year at municipal level			
Required facilities classified by un rural areas by sub-sector with imption criteria Equipment for construction, rehat and O&M be identified Criteria for identifying priority properts. Criteria for identifying priority propriets briority propects	<u></u>					
tural areas by sub-sector with implementa iton criteria • Equipment for construction, rehabilitation and O&M be identified (3) Identification of priority projects • Criteria for identifying priority projects • Priority projects by sub-sector			- Required facilities classified by urban and			
tion criteria - Equipment for construction, rehabilitation and O&M be identified (3) Identification of priority projects - Criteria for identifying priority projects - Priority projects by sub-sector			rural areas by sub-sector with implementa			
- Equipment for construction, rehabilitation and O&M be identified (3) Identification of priority projects - Criteria for identifying priority projects - Priority projects by sub-sector		- main Paris	tion criteria			
and O&M be identified (3) Identification of priority projects Criteria for identifying priority projects - Priority projects by sub-sector			- Equipment for construction, rehabilitation			
(3) Identification of priority projects • Criteria for identifying priority projects • Priority projects by sub-sector			and O&M be identified			
Criteria for identifying priority projects - Priority projects by sub-sector			(3) Identification of priority morecus			
Priority projects by sub-actor	-:-		Criteria for identifying priority projects			
			- Priority projects by subsection			
			to space of the sp			

Į.

Contents		Main Keport		Supporting Account	THE PARTY OF THE P
(1) Percentages of beneficiaries or utilities to be served as target indicator	T8.2.1	Provincial Sector Targets	T8.2.1	Estimation of Base Year Service Coverage of Water Supply	
			_		
(2) Setting up of provincial sector targets by	T8.2.2	e Coverage	T8.2.2	Population Coverage in	
		of Water Supply		Phase I Provided by Served	
. Water supply				Population in the Base	
· Sanitation	18.2.3	Base Year Service Coverage		Year (Water Supply)	
Sewerage		of Household Toilets			
Solid waste			T8.2.3	Number of Households	
	T8.2.4	Base Year Service Coverage of Public School Toilets		Served by Sanitary Toilets in the Base Year (1995)	
		and Public Toilets			
			T8.2.4	Number of Public School	
	T8.2.5	Base Year Service Coverage		Students Served by School	
		of Municipal Solid Waste		Toilets in the Base Year	
	<u></u>	System in 1995		(5661)	
			T8 2.5	Number of Public Utilities	
	· · · · · · · · · · · · · · · · · · ·			with Sanitary Toilets in	
			T8.2.6	Household Coverage in	
:	, — — —			Phase I Provided by Exist-	
		-		ing Facilities in the Base	
· · · ·	;- -			Year (Household Toilets)	
			T827	Public School Students and	
			i :	Public Utilities Coverage	
	_			in Phase I Provided by	
				Existing Facilities in the Base Year	
· · · · · · · · · · · · · · · · · · ·					

					Tables & Figures	
	Tuble of Contents	Contents	Main Report	Suppo		Баға Кероп
<u> </u>	Projection of Frame Values					
<u> </u>	Population Projection	(1) Methodology for population projection by urban and rural areas by municipality Base figures and conditions: 1990 popula-	TS.3.1 Future Population by Urban and Rural Area by Municipality	T8.3.1 Popula Urban	Population Distribution in Urban and Rural Arcas	
		tion census and future population by urban and rural areas by municipality by target year as projected by NSO	•	TS.3.2 Past P	Past Population Develop- ment	
		 Review/verify past population development characteristies by urban and rural areas at regional and provincial level Review/compare past population in urban 		T8.3.3 Populatio Target Y Province	Population Projection for Target Years: Region and Province	
		and roral areas at provincial level Identify areas/municipalities where adjustment of projected population is necessary		T8.3.4 Provir	Provincial Population for Target Years	
		 Identify areas/municipalities to be excluded from PW4SP Establish fature population of urban and rural areas by municipality by target year for 		T8.3.5 Projec House Rural by Tar	Projected Number of Households by Urban and Rural Area by Municipality by Target Year	
<u> </u>	School Enrollment Projection	 uon by municipality Determine school age population Determine participation rate of total school enrollment and participation rate of total school enrollment Establish future participation rate of public school enrollment 	T8.3.2 Projected Public School Enrollment and Number of Public Utilities by Munici- pality	T8.3.6 Projec ment t	Projected School Enroll- ment by Municipality by Target Year	
<u> </u>	Projection of the Number of Public Utilities	Conditions used for projection of the number of public utilities toilets		T8.3.7 Project Public Public	Projected Number of Public Utilities by Munici- pality by Target Year	
Š.	" Questionnaice form	Tuble - T. Pigure - P		-		



1

COMPOSITION OF FIGURES AND TABLES BY CHAPTER/SECTION

4.8.8.8.8.8.8.3.5.4.8.8.9.1.4.8.9.9.1.4.8.9.9.9.1.4.8.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9	Table of Contents Planning Area and Popula- tion to be Served by the Sewerage System Number of Households to be Served by Municipal Solid Waste Collection System Types of Facilities and Implementation Criteria Water Supply	nning area and population to be served	Main Report		Supporting Report	Data Report	
2.3.2 2.3.2 2.4.3 2.4.3	concents a and Popula- rved by the stem fourseholds to be tunicipal Solid etion System ion Criteria	2 5	MAIN KCDOTT		Supporting report	лась кероп	
8.3.5 4.1 8.4.1	red by the stem stem stem consended to be founcipal Solid cuincipal Solid cuion System silities and ion Criteria	9 9					
S.E. 4. 4. 8. 8.	fouseholds to be unicipal Solid etion System silities and ion Criteria y	3					
न न ज ज	citities and sion Criteria y	2					
	> 1	2					
2 10	:		T8,4.1 Groundwater Productivity	F8.4.1	Standard Structure of Wells		
		by type andn level of service - Limited utilization/application of Levels 1 & Il systems - Rehabilitation/replacement of Level 1 facilities	T8.4.2 Standard Specifications of Level 1 Wells		(Open-hole Drilling and Gravel Pack Method)		
8.4.2 Sanitation		(1) HH tollets: One sanitary toilet per household is considered. Type of facility is dependent on the existing or planned water supply level of community		:			
		(2) School and public utilities toilets - Future assumption on the number of public schools/utilities toilets					
		- Standard DECS coverage based on a 1:50 facility-student ratio will be followed and the standard designs of RESP will be adopted Standard FW4SP designs (with modification)					
Ouestionnaire form	1.1	Table Ones Will be adopted Table T. Figure - F					

						Tables & Figures		
	Table of Contents	Contents	Main Report			Supporting Report	Data Report	
8.4.3	Urban Sewerage	- Staged implementation of the sewerage program for limited urban area.		11.	F8,4.2	Staged Improvement in Sewage Collection Method		
ન ન ∞	Solid Waste	- Requirement of garbage collection trucks is considered.						
×.	Service Coverage by Target Year							
8.5	Water Supply	(1) Assumptions/conditions adopted - Criteria on number of persons served by	T8.5.1 Population to be served by Target Year (Water Supply)		T8.5.1	Population to be Served by Level II System in Phase 1		
		The and reverse survice unloads are took. • Limited utilization/application of Levels ! & Il systems	F8.5.1 Map Showing Future Water Supply Service Coverage by 2000		T8.5.2	Population to be Served in Phase I (Water Supply)		
·		(2) Additional population to be served by target year Present population served in urban and rural areas at each municipality (1994)	F8.5.2 Map Showing Future Water Supply Service Coverage by 2010	5	78.5.3	Population to be Served in Phave II (Water Supply)		
<u> </u>	Sanitation	 (1) Household toilets Present household served by type of toilet facility in urban and rural areas at municipal level (1994) Rouseholds to be served by type of toilet 	TN.5.2 Additional number of Households to be Served by Target Year (Household Toilets)	her of served lets)	T8.5.4	Additional Number of Households to be Served in Phase I (Household Toilets)		
 		facility in urban and rural areas at municipal level by target year - Additional households to be served by type of toilet facility in urban and rural areas at municipal level by target year	FS.5.3 Map Showing Household Toilets Service Coverage by 2000 FS.5.4 Map Showing Household Toilets Service Coverage		T8.5.5	Additional Number of Households to be Served in Phase II (Household Toilets)		
			by 2010			_		
]5].	Questionnaire form	Table 1. Figure F						

1

						Tables & Flynnes		-
~~~	Table of Contents	Contents		Main Report		Supporting Report	Data Report	
		(2) School toilets						
			78.5.3	ځ	T8.5.6	Additional Number of		
نحد		adequately served at municipal level (1994)		lic School Students to be		Public School Students to		
		· Number of public school students to be		Served by Target Year		be Served in Phases I and		
		served at municipal level by target year	-	(School Toilets)		II (School Toriets)		
		- Additional public school students to be		-				
		served at municipal level by target year			T8.5.7	Number of Public Utilities		
٠			T8.5.4	Additional Number of Pub-		with Sanitary Toilets in		
		(3) Public utilities toilets		lie Utilities with Sanitary		Phases I and II		
		- Present number of sanitary public toilets at		Toilets by Target Year				<u></u>
		municipal level (1994)						
		<ul> <li>Projected number of sanitary public utilities</li> </ul>						
		toilets at municipal level by target year	÷					
<del>-</del>		(new construction)		:				
		<ul> <li>Additional public utilities toilets at munici-</li> </ul>						
21		pal level by target year			<i></i>			
			; ;; ;					
8.5.3	Urban Sewerage	- Assumptions adopted to define service	TX.5.5	Population to be Served by				
		coverage		Urban Sewerage in Phase II				•
		- Population to be served by target year (2010)						
		A consequence of the base of t	7 × ×	Additional No. of Library				
<u> </u>	SOUR WANC	Salving of particular control of the	}	Commence of the Comment				
·		coverage  - Additional number of households to be served		by Municipal Solid Waste				-
		by the municipal system by target year		System in Phase [				
<del>,,</del>		(2000)						
پ <u>بر</u>	Facilities, Equipment and							
	Rehabilitation to Meet the							
:-	Target Services							
			Ì		i.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
9 2	Water Supply	(1) Water supply facilities by service level by	1.6.6.1	water supply racinities	1.5.0.4	Orban water supply		
		target year		Required by Larget Tear		Target Year		
]. ].	· Opestionnaire form	Table T, Figure F						

Table of Contents	Contents	Main Report	Supporting Report	Data Report
	(2) Equipment:			
	- Well drilling equipment for water source development		T8.6.2 Plan for Expansion of Existing Level III System	
	- Workshop bldg., and its equipmen/tools - Maior transportation comment for cons-		T8.6.3 Rural Water Supply Facili-	
	truction and O&M			
	(3) Rehabilitation			
	- Wells and handpumps			
Sanitation	- Urban household toilets required by target	78.6.2 Sanitation Facilities Required 78.6.4		
	year - Rural household toilets required at manacipal	by Target Year	Required by Largel Year	
-	level by target year		T8.6.5 Rural Household Toilets	
	· Public school toilets required at municipal		Required by Target Year	
	level by target year  Public utilities toilets required at municipal		T8,6.6 Public School Toilers	
	level by target year		Required by Target Year	
			T8.6.7 Public Toilets Required by Target Year	
Urban Sewerage and Solid Waste	Additional units of truck required to meet service coverage	T8.6.3 Number of Garbage Collection Trucks Required in Phase I		
Identification of Priority Projects for Medium-Term	(1) Criteria for identifying priority projects			
Development	(2) Description of identified projects by mode of service in each sub-sector			

Ĺ				Tubi	Tables & Figures		
	Table of Contents	Contents	Main Report	Supporting Report	Report	Data Report	
<u></u>	SECTOR MANAGEMENT			·			
<u></u>	General				<del></del>		
9.5	Sector Management	- Situational Analysis: Developing the Vision - Service Provision Policies and Objectives - Operating Policies - Regulatory Policies - Financing System	F9.2.1 Sector Management Model F9.2.2 Flow of Funds	150 Y			
<u></u>	Institutional Arrangements		. *				
2 - 23	Project Management Arrangements	- Level 1 - Level 11 - Level 111		F9.4.1 Formats for Level I Project Data and Le Feasibility Study	Formats for Level I Project Data and Level II Feasibility Study		
5.0	Community Involvement Models	- Policy; responsibilities - Potential future development needs	79.5.1 Summary of Commonity Development Study Siles				
9.6	Human Resources Develop- ment and Training	- Policy; responsibilities					
10.	COST ESTIMATES FOR FUTURE SECTOR DEVELOPMENT						
2	.1 General	(1) Methodology adopted to cost estimates					
		- Composition of cost estimates - Costs for required facilities by urban and rural areas at municipal level together with equipment for construction/relabilitation and O&M					
<u>J</u> .	Questionnaire form	Table 1. Figure F					

Table of Contents	Contents	Main Report	1%	Supporting Report	Data Report
	- Costs for sector management and recurrent				
	COMIN				
Assumptions for Cost Estimates	(1) Unit Cost of facilities	T10.2.1 Unit Cost of Facilities by Type and Service Level	T10.2.1 U	Unit Cost of Level 1 (Deep Well - 30m Depth)	
	Establish unit cost (per capital/HH or facility) by type and level of service based	T10.2.2 Unit Cost of Equipment and Vehicle	T10.2.2 U	Unit Cost of Level 1 (Deep Well - 50m Depth)	
	Existing standard unit costs of sector agencies concerned (DPWH, LWUA and DOH)		T10.2.3 U	Unit Cost of Level 1 (Deep Well - 70m Depth)	
	- Typical standards development for PW4SP (1.e., deep wells by different depths)		T10,2.4 U	Unit Cost of Level I (Deep Well Rehabilitation)	
	(2) Unit costs of equipment based on the standard unit cost and recent procurement record at sector agencies concerned		T10.2.5 C	Unit Cost of Level 1 (Shallow Well-18m Depth)	
	(DPWH, LWUA, DOH)		T10.2.6	Unit Cost of Level II (600 Service Population)	
			T10.2.7	Unit Cost of Level 111 (5,000 Service Population)	
	(3) Sector management costs Establish percentages to base cost-or unit		T10.2.8 (	Unit Cost of Level III (10,000 Service Popula- tion)	
	cost for following sector management activities: - Engineering studies - Community development and training - Health and hygiene education		T10.2.9	Unit Cost of Level III (15,000 Service Popula- (ion)	
	- Logistics support				

### COMPOSITION OF FIGURES AND TABLES BY CHAPTER/SECTION

			the state of the s	Fugure CA
Table of Contents	Contents	Main Report	Supporting Report	rt Data Report
	(4) Recurrent costs		T10.2,10 Unit Cost of Flush Water Scaled with Septic Tank	sh Water Je Tank
	Establish unit cost or percentage to base cost for following purposes:		Toilet	
	Regular operation cost     Spare parts and equipment replacement, and     Management cost		T10.2.11 Unit Cost of Pour Flush with Double Pit Latrine	r Flush Latrine
			710,2.12 Unit Cost of Ventilated Improved Pit Latrine (VIP)	rtilated trine (VIP)
		:	T10.2.13 Unit Cost of School Toilet	tool Toilet
	:		T10.2.14 Unit Cost of Public Toilet	lic Toilet
Cost of Required Facilities and Equipment				
Cost of Required Facilities	- Costs of required facilities by type and service level of each sub-sector by municipality	T10.3,1 Construction Cost of Required Facilities by Municipality	T10.3.1 Construction Cost of Water Supply Facilities Required for Phase 1 (2000)	st of acilities ase I
Cost of Required Equipment and Vehicle	Costs of required equipment (by municipatity and province)	710.3.2 Cost of Equipment and Vehicle	T10.3.2 Construction Cost of Water Supply Facilities Required for Phase !! (2010)	st of acilities use !!
			710.3.3 Costs of Sanitation Facilities Required for Phase 1 (2000)	ion Facili- r Phase I
			T10.3.4 Costs of Sanitation Facilities Required for Phase II (2010)	ion Facili- r Phase II

Table of Contents  10.4 Recurrent Cost  10.4 Recurrent Cost  11. FINANCIAL ARRANGE  11.1 General  11.2 Forgetion of IRA  11.2 Forgetion of IRA  11.3 Additional Funding  12.4 Additional Funding  13. Additional Funding  14.3 Additional Funding  15. Additional Funding  16. Funding Funding  17. Additional F		( Company and a			Tables & Figures		
FINANCIAL ARRANGE		Table of Contents	Contents	Muin Report	Supporting Report	Data Report	
FIXANCIAL ARRANGE.  MIENTS  - Scope of the study with limitations and fill.1.1. Sector Budget Atlocation future development useds  FILL2 General Flow of Financial Arrangements for Relevant Sector Development  - Study on fund availability, Internal Revenue FILL2. Trial Allocation of Internal Alternation of the sources to be negotory and Sector Development  - Study on fund availability Internal Revenue FILL2. Trial Allocation of Internal Alternational Anticoment (RA) to Municipalities for Relevant Sector Development  - Trial Allocation of Internal Revenue Alternation of Internal Revenue Alternational Funding  - Financial shortfall to implement Medium  - Trial Allocation of Internal Revenue (RL)  - Trial Allocation of Internal Revenue (RL)  - Study on fund availability, Internal Revenue (RL)  - Trial Allocation of Internal Revenue (RL)  - Additional Funding  - Financial shortfall to implement Medium  - Trial Allocation of Internal Revenue (RL)  - Trial Allocation of Internal Revenue (RL)  - Trial Allocation of Internal Alternation of Internal Revenue (RL)  - Trial Allocation of Internal Revenue (RL)  - Financial shortfall to implement Medium  - Trial Allocation of Internal Revenue (RL)  - Trial Allocation of Internal Re	7.01	Recurrent Cost		ag.			
Ceneral faute development needs faute development seeds faute fauted/arranged triated/arranged triated/arranged triated/arranged hadrones to be nego to Municipalities for Relevant Sevenae Alloument (IRA) triated/arranged faute triated/arranged faute triated/arranged faute triated/arranged faute triated/arranged faute fau	:			· · · · · ·			
Ceneral  - Scope of the study with limitations and fill.1. Sector Budget Allocation fature development needs  - Study on fund availability: Internal Revenue FII.2.1 Trial Allocation of Itaham Allotment and other sources to be nego-fateduranged  - Study on fund availability: Internal Revenue Allotment (IRA)  - Study on fund availability: Internal Revenue Allotment (IRA)  - Additional Funding  - Emancial shortfall to implement Medium:  - Requirements  - Term Development Plan  - Term Developmen	i	FINANCIAL ARKANGE-					
Propection of IRA  Sector Development Sector Development Allonment and other sources to be nego- tiated/arranged tiated/arranged  Van Sector Development Till 2.1 Trial Allocation of Internal Revenue Allotment (IRA) to Municipalities for Refe- vant Sector Development Till 2.1 Projected Internal Revenue Allotment for Medium- Term Sector Development Till 3.1 Financial Shortfall to umplement Medium- Sector Component for the Prevince Term Development Plan Requirements Till 3.1 Financial Fund Requirements for the Medium- Term Development Plan Term Development Plan Term Development Fund Requirements for the Medium- Term Plan Term Plan Term Medium- Term Plan Term Requirements for Till 3.1 Financial Fund Requirements for the Medium- Term Prevince	=	General	- Scope of the study with limitations and faiture development needs				
Projection of IRA  Alloument and other sources to be nego to Municipalities for Relevant Sector Development  Til 2.1 Projected Internal Revenue Alloument of Medium- Term Sector Development  Til 2.2 Projected Internal Revenue Alloument of Medium- Term Sector Development  Til 2.1 Projected Internal Revenue Alloument of IRA to the Relevant Sector Development  Til 2.1 Projected Internal Revenue Additional Funding  - Financial shortfall to implement Medium- Requirements  Term Development Plain  Term Province  Term Plain  Term Plain  Term Plain  Term Plain  Term Plain  Term Plain							
T11.2.1 Projected Internal Revenue Allotment for Medium- Term Sector Development T11.2.2 Projected Allotment of IRA to the Relevant Sector by Component, 1996-2000  Additional Funding Term Development Plan Requirements Term Development Plan Term Plan Term Plan Term Plan Term Plan	<u>:</u>	Projection of JRA	<ul> <li>Study on fund availability: Internal Revenue Allotment and other sources to be nego- tiated/arranged</li> </ul>				
Acditional Funding - Financial shortfall to implement Medium T11.3.1 Financing Requirements for T11.3.1  Requirements - Financial shortfall to implement Medium T11.3.1 Financing Requirements for T11.3.1  Term Development Pian Requirements For T11.3.2 Additional Fund Requirements for T11.3.2 Additional Fund Requirements for the Medium T11.3.2 Additional Fund Requirements for the Medium Term Phu							
Additional Financing Requirements for T11.3.1 Financing Requirements for T11.3.1  Requirements Term Development Plan Plan Province Province T11.3.2 Additional Fund Requirements for the Province Plan Plan Plan Plan Plan Plan Plan Plan							
	2		Financial shortfall to implement Medium  Term Development Plan				
	<del> </del>						

T

Table of Contents	Contents	Main Report	Supporting Report	Data Report
		T11.3.3 Internal Revenue Allot- ment for Water Supply and Sanitation Sector by Muni- cipality (Medium-Term Developmen/1996-2000)		
11.4 Medium-Term Implemen- tation Arrangements	- Implementation arrangements with available funds for relevant sector		T11.4.1 Comprehensive Invest- ment Need Ranking of the Municipalities	
11.4.1 Reference Scenarios in Different Funding Levels	Trial calculation on the allocation of pro- jected IRA to municipalities for Medium- Term Development	F11.4.1 Relationship Between Funding Levels and Percent of Coverage for Water Supply Sector F11.4.2 Relationship Between Funding Levels and Percent of Coverage for Sanitation Sector		
11.4.2 Alternative Counter- measures	- Acquisition of external funds - Augmentation of sector finance - Private sector participation	T11.4.1 Municipal Invextment Need Ranking for Urban Water Supply		
	- Effective and economical investment	T11.4.2 Distribution of Provincial IRA to Municipalities for Urban Water Supply		
		T11.4.3 Municipal Investment Need Ranking		
11.5 Cost Recovery	Discussion of the cost recovery by beneficiative (O&M and other costs) and possible arrangement by LGUs			

	"Total of Controls	Contents	Main Report	Supporting Report	Data Report
	table of Colleges				
7	MONITORING				
12.	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	Manner of follow-up and feed back in plan- ning and project implementation	<b>!</b>	T12,4,1 Draft Formats for Annual Sector Performance Sum-mary Report (Provincial	
				and Municipal Levels)	

#### 2.6.2 Data Management

#### 2.6.2.1 QUESTIONNAIRE FORMS

#### STRUCTURE OF QUESTIONNAIRE

	<u> </u>		I	) ata I	evel		
Grouping of Questionnaire	Nat.	Reg.	Prov.	Mun.	Bar.	Sys/Fac.	Ind.
	R	R_	L P	L M	В		L
1 SOCIO ECONOMIC DATA						(837,914)	
1.1 Administrative Composition				M 1.1	B 1.1	<u> </u>	
1.2 Past Population				M 1.2.1	B 1.2.1		
				M 1.2.2	B 1.2.2	<u>,                                      </u>	
1.3 Projected Population				M 1.3	B 1.3		
1.4 Household Number				M 1.4	B 1.4	<u> </u>	
1.5 Services				M 1.5	B 1.5		
1.6 Occupation Category				M 1.6	B 1.6		
1.7 Family Income, Education and Literacy				M 1.7	B 1.7		
2 LAND USE DATA							
2.1 Existing Land Use				M 2.1	B 2.1		
2.2 Future Land Use				M 2.2	B 2.2		
3 HEALTH DATA				100			
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							
4.1 General Information	D.WENTSELTSLINE	20130 MALES	complessor area apo	M 4.1	B 4.1		
4.2 Water Source				M 4.2	B 4.2		
5 WATER SUPPLY SYSTEMS							
5.1 Level II Systems	and the second	- CONTRACTOR	and the same of th	ANCEST ROBITED		S 5.1.1	- Inthiastacture
	1.					S 5.1.2	
5.2 Level III Systems						S 5.2.1	
						S 5.2.2	
						\$ 5.2.3	
5.3 Level I Facilities		·			:	F 5.3.1	
						F 5.3.2	
						F 5.3.3	
6 ENVIRONMENTAL SANITATION							
6.1 Private Toilet				M 6.1	B 6.1		
6.2 School/Public Toilet				M 6.2	В 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				78.00			
7.1 Previous annual Investment	A STATE OF THE PARTY OF THE PAR	or was appropriately and	P 7.1		ATTENDANCE AND ADDRESS.	A PARTY TAXABLE	
7.2 Planned Annual Investment			P 7.2				

Note: Barangay level questionnaire forms are for reference purpose only

#### 1. SOCIO-ECONOMIC DATA

8

1

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Soci	Content: Socio-economy - Administrative Composition	omposition		Date:		Page:		Filename: socio.xls	xlx.	
Data Collection	Data Collection Level: Municipal			Prov. No.:				Shectname: (M	Sheetname: (M) Administrative Composition	Composition
Region Number:	er:			Prov. Name:				Form Number: M 1.1	M 1.1	
		-		STA	STATUS			ON	NO. OF BARANGAYS	AYS
NEDA Geogrpahic Code	Municipality	City	Municipal	Class	Establish- ed Year	Original Barangay Name	Total	Urban	Rural	Total
		×	×	71:	(YYYY)	Char.	(Hectare)	#	#	#
		·								
					April (Spire of the Control of the C				-	
				1 1 2						
					And the second s					
						The state of the s				
			:							
		:								
					$\begin{array}{ll} \frac{d_{1}^{2}(x_{1}^{2})}{d_{1}^{2}(x_{1}^{2})} \stackrel{\text{define } x}{=} & (2,1)^{2/3} \\ \frac{d_{1}^{2}(x$					
						And the second s	·			
							٠			
						The state of the s				
						established Sec Section Building				
					And the second s					
				:	Section of the sectio					
ď	Provincial Total		Control of the Contro							

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Series Series	Continue Comit annual Dest Denilation			Date:		Page:	Filename: socio.xl	,
Data Collecti	Pata Collection Level: Municipal			Prov. No. :			Sheetname: (M) Past Population	st Population
Region Number:	ber:			Prov. Name:			Form Number: M 1.2.1	1.2.1
				PAST	PAST POPULATION (NSO)	(NSO)		
NEDA Geographic	Municipality	1903	8161	1939	1948	1960	1970	1975
8		¥Ł.	71:	#	#	#	#	Ħ
٩	Provincial Total							

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Socie	Content: Socio-economy - Past Population			Date:		Page:		Filename: socio.xls	cio.xls	
Data Collectic	Data Collection Level: Municipal			Prov. No. :				Sheetname: (M) Past Population	(M) Past Pop	ulation
Region Number:	er:	1		Prov. Name:		-		Form Number: M 1.2.2	r: M 1.2.2	
					PAST PO	PAST POPULATION (NSO)	(OSN)			
NEDA Geographic	Municipality		1980			1990			1994	
og Cod		Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total
		##=	¥ŧ	**	#	#	#	#	#	#
									-	
				:						
o.	Provincial Total									
							*			

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Soci	Content: Socio-economy - Projected Population	l	Date:		Page:		Filename: socio.xls	cio.xls		
Data Collection	Data Collection Level: Municipal		Prov. No. :				Sheetname:	(M) Projecte	Sheetname: (M) Projected Population	
Region Number	yer:		Prov. Name:				Form Number: M 1.3	er: M 1.3		
					POPULA'	POPULATION PROJECTION	JECTION			
NEDA Geographic	Municipality		1995	- 1 -		2000			2010	
Code.		Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total
		#	#	#	#	#	#	#	#	#
		· ·				٠.				
		,								
						:				
			:							
	Ī									
				- · ·						
ሟ	Provincial Total									

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Socie	Content: Socio-economy - Household		Date:		Page:		Filename: socio.xls	cio.xls		
Data Collectio	Data Collection Level: Municipal		Prov. No. :		-		Sheetname: (M) Household	M) Househo	닭	
Region Number			Prov. Name:	. ; ;			Form Numb	r. M 1.4		
					NUMBER	OF HOUS	NUMBER OF HOUSEHOLDS			
NEDA Geographic	Municipality	1980	1980 (Census by NSO)	(OS)		1990			1995	:
Code		Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total
		#	#	7	#	#	#	#	#	#
					-					
						:				
				·						
Pr	Provincial Total									

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Socio	Content: Socio-economy . Services			Date:		Page:			Filename: so	cio.xls	
Data Collection	Data Collection Level: Municipal			Prov. No. :					Sheetname:	Sheetname: (M) Services	
Region Number	11.			Prov. Name:					Form Number: M 1.5	er: M. 1.5	
						SERVICES (As of month-year)	of month-v				
NEDA Geographic	Municipality	ă 	Elementary School	8		High School		College	Hospital	Market	Bank
Soci		Public	Private	Total	Public	Private	Total	)	,		
		∓t	₹ <b>1</b>	##	<b>7</b> 1	Ħ	#	<b>#</b>	#	#	##
						1. 1.					
						**************************************					
						***************************************					
				÷.—	:						
	-		: :								
		:									
				: :							
Pro	Provincial Total	Name									

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

	Content: Socio-economy - Occupation		Date:		Page:		filename: socio.xis	4
Total Collection	Dara Collection Level - Municipal		Prov. No.:	1			Sheetname: (M) Occupation	Occupation
Region Number:			Prov. Name:				Form Number: M 1.6	1.6
				PERSONS BY	PERSONS BY OCCUPATION CATEGORY	CATEGORY		
						Agricultural, Animal	Production & related workers.	Occupation not
NEDA Geographic Code	Municipality	Professional, Technical & Related Workers	Administrative, Executive and Managenal	Sales Worker	Service Worker	Husbandry & Forestry workers,	Transport Equipment	adequately defined or reported
						Fisherman and Hunters	Laborers	
		#	#	#	#	#	#	#
	The state of the s							
								The state of the s
DE	Drovincial Total							

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

	Consider Val	Como Dano		Γ	Date:			Page		Filename: socio.xis	.XIs	
Data Collectic	Collection Level: Municipal				Prov. No. :					Shectname: (M	Sheetname: (M) Family Income and Education	and Education
Region Number	er				Prov. Name:				1	Form Number	K 1.7	
		Nun	Number of Family by Income Class (Amnual) (1990 Census)	nily by Income (1990 Census)	: Class (Ann )	ual)	Popula	tion by High	Population by Highest Level of Education	ucation	Literacy of Population 10 Years and Over (1989 Survey)	Population md Over urvey)
NEDA Geographic Code	Municipality	Under P14,999	P15,000 to P29,999	P30,000 tc P39,999	P40,000 to P59,999	P60,000 and over	Pre- school	Elem.	Secondary (High School)	Tertiary (College & Post Graduate)	Literate	Iliterate
		*	#	#	##	#	*	#	<b>#</b>	∓t	井	¥Ł
											-	
								1.1				
			ļ   	1	+ 1 +							
											=	
							:					
Pro	Provincial Total											

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Municipal Class Establish Barangay Area  x # (XYXY) Char (Hectare)	Content. Soc	Content: Socio-economy - Administrative Composition	mposition		Date:		Page:		Filename: socio.xls	xls	
Prov. Nume.   Noise   Prov. Nume.   Noise   Prov. Nume.   Prov. Nume.	Sold of the Control o	ion I evel . Ramangay	Prov No		1	Mun, No. :			Shectname: (B)	Admintrative Co	mposition
STATUS         NO. OF BARANGAY           Barangay         City         Municipal         Class         Establish-Barangay         Acra-Acra-Acra-Acra-Barangay         Acra-Barangay	Region Num		Prov. Name:			Mun. Name:			Form Number: I	3 1.1	
Barangay         City         Municipal         Ciass         Establish-anangay         Original Total         Total         Urban         Rural         Total           N         X         X         #         #         #         #         #         #         #           Name         Name         Chryry         Char         (Hocarc)         #         #         #         #         #           Name         Name         Chryry         Char         (Hocarc)         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #         #					STA	TUS			ON	OF BARANG	\Y
X	NEDA Geogrpuhic Code		City	Municipal	Class	Establish- ed Year	Original Barangay Name	Total Area	Urban	Rural	Total
			×	×	#	(YYYY)	Char.	(Hectare)	7#	#	<b>#</b>
										The state of the s	첫 등 사람들은 . 
								į			
							- 1				
										27 matter affect bigfen egt beaten?	and the second s
									And the second s		
									And the second s		
第2000年度を表する。											
		Municipal Total					A Section Control				

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

1

Content: Soci	Content: Socio-economy - Past Population			Date:		Page:	Filename: socio.xis	
Data Collecti		Prov. No.:		Mun. No.:			Sheetname: (B) Pa	st Population
Region Number:		Prov. Name:		Mun. Name:			Form Number:B 1.2.1	2.1
				PAST	PAST POPULATION (NSO)	(OSN)		
Geographic	Barangay	1903	8161	1939	1948	1960	1970	1975
ğ		#	#	#	#	#	#	#
					1.			
			:			·		
					-			
				:				
		,						
h 22	the state of the s							
N.	Municipal Total							

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

December   Prov. No. :   Mun. No. :   Sheetname: (B) Past Popula   Prov. Name:   Prov. Name:   Prov. Name:   Prov. Name:   Past Popula   Prov. Name:   Past Popula   Prov. Name:   Past Popula   Prov. Name:   Past Popula   Past Name:   Pas	Contant Con	o concentration - Dust Donnlation			Date:		Page:		Filename: socio.xls	cio.xls	
Barangay Urban Rural Total Urban Rural Rur	Jata Collecti	on [ evel : Baraneav	Prov. No. :			Mun. No. :			Sheetname:	(B) Past Popi	ilation
Barangay Urban Rural Total Urban Rural Total Urban Rural # # # # # # # # # # # # # # # # # # #	Segion Num	ber:	Prov. Name:			Mun. Name:			Form Numb	cr: B 1.2.2	
Barangay   1980   1990   1994   1994   1994   1994   1994   1994   1994   1994   1994   1994   1994   1994   1994   1994   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   19						PAST PO	PULATION	(NSO)			
Urban Rural Total Urban Rural Total Urban Rural Total Urban Rural  # # # # # # # # # # # # # # # # # # #	NEDA			1980			1990			1994	
	Code		Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total
			<b>*</b>	**	#	#	#	#	#	#	#
							:				
		And the second s									
								,			
		Minnicipal Total									

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

T

	One of the order	- Constitution	Date:		Page:			Filename: socio.xls	cio.xls	
Contient Sec		٠ چ			Prov. No.			Sheemame: (	Sheemame: (B) Projected Population	pulation
Dagion Num	CVCI : Darrangav	Prov. Name:			Prov. Name:			Form Number: B 1.3	r: B 1.3	
- Colonia telegraphic					POPULAT	POPULATION PROJECTION	ECTION			
NEDA	0		1995			2000		·	2010	
Code	Darangay	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total
		*	#	#	#	*	#	#	*	*
					:					
								: .		
										,
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			:				
						-				,
					-					
	Municipal Total									

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Contons. Socio	Content Socio-conomy - Household		Date:		Page:			Filename: socio.xls	sio.xls	
Data Collection	Data Collection Level : Baraneav	Prov. No.			Mun. No.:			Sheetname: (B) Household	B) Heusehok	
Region Number		Prov. Name:			Mun. Name:			Form Number: B 1.4	r: B 1.4	
					NUMBER	NUMBER OF HOUSEHOLDS	1 [			
NEDA	Borongoy	1980	1980 (Census by NSO)	(08		1990			1995	
Code	Daiaiigay	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total
		#	#	#	*	#	#	#	#	*
								·		
								1. 1.		
							·			
			: ::							
										· · · · · ·
						:				
										•
		-								
				. *						
						-				
Mu	Municipal Total									

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

V	Corridon			Date:		Page:			Filename: socio.xls	cio,xls	
Out Collection   Perengal	STATION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF T	Prov. No.			Mun. No.:				Sheetname: (	B) Services	
Region Number		Prov. Name:			Mun. Name:				Form Number: B 1.5	cr: B 1.5	
					SER	SERVICES (As of month-year)	of month-v				
NEDA Geographic P.31	Paranoav	ĕ	Elementary School	[00]		High School		College	Hospital	Market	Bank
		Public	Private	Total	Public	Private	Total	: 1			
		#	Ŧ±.	<b>#</b> ±	#	¥±	妆	#	Ŧŧ.	⊋Ł	#
			*								
	The state of the s										
											}
Municipal Total	Total										

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

			()tes		Page:		Filename: socio.xls	S
Content: Soci	Content: Socio-economy - Occupation			. on any			Sheetname: (B) Occupation	ccupation
Data Collecti	Sata Collection Level: Barangay	Prov. Name:		Mun. Name:			Form Number: B 1.6	1.6
Kegion inmittee	(X7)			PERSONS BY	PERSONS BY OCCUPATION CATEGORY	CATEGORY		
NEDA Geographic Code	Barangay	Professional, Technical & Related Workers	Administrative, Executive and Managerial	Sales Worker	Service Worker	Agricultural, Animal Flusbandry & Forestry workers, Fisherman and Hinters	Production & related workers, Transport Equipment Operators and Laborers	Occupation not adequately defined or reported
		#	72	##	#	3t.	#	#
2	Municipal Total							
***	LUMBARA A A							

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

T

1

							1	Jan 200	3	Filename socio XIS	x x,	
Content: Socie	Content: Socio-economy - Family Income, Education and I	come, Educ	xtion and I	iteracy	Date:			rage.		(A)	Example, Indones o	of Edwarfor
Data Collectio	Data Collection Level: Barangay		Prov. No. :			Mun. No.:				Shectname: (E	Sheetharne: (B) Family alcoure and Education	ייייייייייייייייייייייייייייייייייייייי
Denies Numb			Prov. Name			Mun, Name:				Form Number: B 1.7	В 1.7	
		Nun	Number of Fami	nily by Income Class (Annual) (1990 Census)	Class (Anr	ual)		tion by High	Population by Highest Level of Education	ucation	Literacy of Population 10 Years and Over (1989 Survey)	opulation ind Over urvey)
NEDA Geographic Code	Barangay	Under P14,999	P15,000 to 129,999	P30,000 to P39,999	P40,000 to P59,999	P60,000 and over	Pre- school	Elem.	Secondary (High School)	Tertiary (College & Post Graduate)	Literate	Illiterate
		32E	¥±	#	41	#	#	æ	#	**	<b>*</b>	#
				1 2								
							,					
		1										
							:					
Mai	Municipal Total											

#### 2. LAND USE DATA

# PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

1

Content Lan	Content: Land Hee. Existing Land Hee	Date:		Page:		Filename: landuse.xls	xis
Data Collection		Prov. No. :				Sheetname: (M) ExistingLandUse	xistingLandUse
Region Number:		Prov. Name:				Form Number: M 2.1	2.1
			EXISTING	EXISTING LAND USE (IN HECTARES)		AR	
NEDA Geographic	Municipality	Forest Land	Grassland	Built-up	Agricultural	Mangrove, Fishponds, In- land Water	Openlands
go Code		7	77	7	3	Arcas	7
		#±	*	*	*	ŧ	ŧ
				:			
	de d	:					
						÷	
	Provincial Total						

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content 1.97	Concert Land Use - Future Land Use	Date:		Page:		Filename: landuse.xis	xis
Data Collect	Data Collection Level: Municipal	Prov. No.:				Sheetname: (M) Fu	stureLandUse
Region Number	ber:	Prov. Namc:		-		Form Number: M 2.2	2.2
			FUTURE	FUTURE LAND USE (IN HECTARES)	ECTARES) YEAR:	18.	
NEDA Geographic	Municipality	Forest Land	Grassland	Built-up	Agricultural	Mangrove, Fishponds, In- land Water	Openlands
98		#	#	#	#	Arcas #	#
				:			
		:					
			:				
	Provincial Total						

0

8

Content: Lan	Content: Land Use - Existing Land Use	Date:		Page:		Filename: Janduse xis	xix
Data Collecti	Data Collection Level: Barangay	Prov. No. :		Mun. No. :		Sheetname: (B) ExistingLandUse	cistingLandUse
Region Number:	ber:	Prov. Name:		Mun. Name:		Form Number: B 2	2.1
			EXISTING	LAND USE (IN F	HECTARES) YE	EXISTING LAND USE (IN HECTARES) YEAR:	
NEDA Geographic Code	Barangay	Forest Land	Grassland	Built-up	Agricultural	Mangrove, Fishponds, In- land Water	Openiands
}		#	#	**	∓	Areas #	*
					The state of the s		
	and of the second secon						The state of the s
-					:		
	Municipal Total						

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

*	A TIME District Tond Time	Date:		Page:		Filename: landuse.	xls
Concil. Lain	Content. Land ON - Future Land Co.	Prov. No. :		Mun. No. :		Sheetname: (B) Fu	tureLandUse
Seeion Numb	OF TANKS THE STATE OF THE STATE	Prov. Name:		Mun. Name:		Form Number: B 2.2	.2
-			FUTURE I	FUTURE LAND USE (IN HECTARES)	ECTARES) YE.	A.R.:	
						Mangrove,	
NEDA Geographic	Barangay	Forest Land	Grassland	Built-up	Agricultural	Fishponds, In- land Water	Openlands
Code	• • • • • • • • • • • • • • • • • • •					Arcas	
		*	#	#	#	#	#
			-				
							9.0
	Municipal Total						

0

# 3. HEALTH DATA

Content: Heal	hh - Morbidity and	Mortelity		Date:		Page Number:	
	on Level: Municipal		Region Number:		Filename: healt		
rov. Numbe			Mun. Number:			) Morbidity and !	Montably
	<u> </u>		Mun. Name:		Form Number:	M 3.1	
rov. Name:			STORE IVALIAN	<del></del>		Number of Cases	
C*	ise Group	Disease	Name of Diseases	Water Related	ļ	1	inian
	seases of	No.	(Group)	Discuses	Morbidity	Mortality	
200	seases or.	• • • •	(		<u> </u>	<u> </u>	Mortal
	nfective	A.01	2-4/ Typhoid Parathyphoid	X		il	
Įi	í			X	1	1	
	and	A.02	5-7/ Dysentary	- X			
1	Parasitic	A.03	8-10/ Intestinal Parasites		· <del> </del>	i	
(0	01-136)	A.04	11-13/ Diamea	X	·		
-	·	A.05	14-16/ Tuberculosis				
	İ	A.06	17-19/ Conjunctivities	X		1l	
	ł	A.07	20-22/ Whooping Cough			I	
	. 1	80A	23-25' Throat Far/Nose				
	· ·	A.09	26-28/ Telanus		· <b>!</b>	L	
		A 10	29-31/ Septicentia		<u> </u>		
	Ĭ	A11	32-34/ Cholera	X	<u> </u>		
	• 1	A.12	35-37/ Varicella, Chickenpox		1		
	ł	A13	38-40' Measles	<del>                                     </del>			
	1			X		J	
		A.14	41-43/ Dengue Fever		<del> </del>	<del> </del>	
		AIS	44-46/ Viral Hepatitis	<u>X</u>		<del> </del> -	
		A.16	47-49/ Malaria	_ <u> x</u>	ļ	<u> </u>	
		A.17	50-52/ Schistosoniasis	X	l		
		A.18	53-55/ Filariasia	X			
	* 1		56-58/ Venerial Diseases				
		A19			·		
<u>-</u>		A.20	59-61/ Other Bacter / Viral Dis.		ļ		
N	coolasms	B.01	62-64/ Malignant Neoplasms				
. (	140-239)	8.02	65-67/ Leukemia		. <b></b> .		
	ine Nutriconal	C.01	68-70' Diabetes Mellitus		1		
	-	C.02	71-73/ Nutritional Deficiencies		1	1	
	Metabolic		ļ	-1	1	i	
	250-279)	C.03	74-76/ Endocrine Disorder		<del>-}</del>		L
Blo	od & Blood	D.01	77-79/ Anemias	1			
Forming	Organa (280-289)			<u> </u>	1	<u> </u>	
	isorder (290-319)	E.01					
		F.01	80-82/ Meningitis				
	us System and				<b></b>		
	Xgans (320-389)	F.02	83-85/ Nervous System		<del>                                     </del>	<del> </del>	
[ (	irculatory	G.01	86-88/ Heart Diseases			·	
Syste	ms (390-459)	G.02	89-91/ Vascular Diseases				
		HOL	92-94/ Bronchitis			.L	ļ
0	tespiratory	H.02	95-97/ Pacumonia	[	1	l i	
		H03	98-100/ Influenza	<b></b>	1		
	Systems		101-103/ Obstructive Pulmonary	_	-1	·	
(	(460-519)	ROI			<del></del>	·	l
		H.05	104-106/ ARI			ļ	l
		101	107-109/ Appendicins		_ <b>_</b>		l
Dia	estive System	102	110-112/ Gastroent Colitis	_1			L
-	(520-579)	103	113-115/ Chronic Liver Disease			1	l
'		L04	116-118/Other Diges. Diseases			1	I
				<del></del>	1	1	
	nito-Urinary	J.01	119-121/ Kidney/ Nephritis			+	<del> </del>
Syste	em (580-629)	J.02	122-124' Urinary Infections		<u> </u>	<b></b> _	<del> </del>
Complicat	ion of Pregnancy &	2- 01	125-127/ Prometrony			1 :	Į.
• •	perium (630-676)	K01	125-127/ Prematurity	1	le de la constant	L	L
	· · · · · · · · · · · · · · · · · · ·	1.01	128-130/ Skin Diseases	Х	1		
	k Subcutaneous	1		- x	·	1	l
	ue (680-709)	1.02	131-133/ Scabies	<del></del>	<del> </del>		l ·
Musculaosi	keletal & Connective	MOI	134-136/ Arthrop., Rheumatism	1	1	1 11	1
Tiss	iue (710-739)					<b></b>	1
Congenital		1	lain and the state of	1			
1	759)	N.01	137-139/ Congenital Anomalies		1	1	l
<b></b>	1275	I- <del></del>	110 117 Pint Town	<del></del>	<del>-  </del> -	<del> </del>	1
I .		P.01	140-142/ Birth Travena		<del></del>		l
Certain	Causes of Primatal	P.02	143-145/ Birth Injuries & Difficult Labor		]		}
L	nty & Mortality	P.03	146-148 Resp. Fetus/Newborn		1	.]	l
	(760-779)	P.04	159-151/ Other Prenatal Causes		.	I	1
			152-154/ Scrubity		T	T	1
	rms & III-defined	Q.01			- {	-}	t
	tion (780-799)	Q 02	155-157/1J-Defined Condition			1	t
Accid	ents, Poisoning	R.01	158-160/ Burns			<b>-</b>	<b>!</b>
1	k Violence	R.02	161-163/ Suffoc, Foreign Body	l_		_1	S
•	(800-999)	R03	164-166/ Other Accidents			1	1







Content: Hea	lth - Facility and Pra	etitioner	Date:		Page No.	,	Filename: I	
Jata Collection	on Level: Municipal		Prov. No.:			Shtname: (		
Region Numb			Prov. Nam	ie:			Form No. :	M 3.2
		Num	ber of Faci	lities	Num	ber of Med	lical Practic	oners
NEDA Geographic	Municipality	Hospital	RHU	BHS	Dectors	Nurses	Midwives	
Code		#	#	#	#	#	#	#
					<u> </u>			
				,	<u> </u>			
						74,000		
							<u> </u>	
							·	
			<u> </u>					
			<b> </b>		<del></del>			
		<del> </del>	<del> </del>					
		<del> </del> -	ļ		<del> </del>		<del> </del>	l
		<b> </b>		<b></b>	<del> </del>	<del> </del>	<del> </del>	<b> </b>
	·	ļ	<u> </u>		ļ	<b> </b>	ļ	
					ļ		<b></b>	<b> </b>
		<u></u>	<u></u>					<u> </u>
<del>  -</del>								<u> </u>
			1					<u> </u>
		<b></b>	<del> </del>	<u> </u>				
					<u> </u>			
	<u></u>		<del> </del>	<u></u>	<del>                                     </del>	<del> </del>	<b></b>	
			<del> </del>		ļ	<del> </del>		<b></b>
		<b> </b>						<u> </u>
			<u> </u>	ļ		1		<u> </u>
· .L							<b></b>	
			1					
		1	1					
<del></del>		<b> </b>	<del> </del>					
	<u> </u>	<u> </u>	<del> </del>			1		
		<del> </del>	1 1			1	<del> </del>	
		<del> </del>	<b></b>		· · · · · · · · · · · · · · · · · · ·	<del> </del>		
	· ·	<b></b>	<del> </del>	ļ			<del> </del>	<del> </del> -
		<b></b>	<b> </b>			<u> </u>	<del> </del>	<del> </del>
		<b></b>	ļ				<del> </del>	<del> </del>
	<u> </u>	<u> </u>		<b></b>			ļ. <u></u>	<b> </b>
		<u> </u>					<u> </u>	ļ <u></u>
							<u> </u>	<u> </u>
	<del></del>	<u> </u>	1				L	
		<b></b>			T			
<u>-</u>	ovincial Total	<del> </del>	- <del> </del>	<del> </del>	╅	<del>†</del>	†	Î

Content: Health - Morbidity and	Mortality		Date:		Page Number:	
Data Collection Level: Baranga)		Region Number:		Filenamie: heal		
tov. Number:	Mun. Nur			Sheemanie: (E	3) Morbidity and	Mortality
tov. Name:	Muss. Nam			Form Number		
	ACTION OF THE PERSON.			T	Number of Case	5
Cause Group	Disease	Name of Diseases	Water Related		1	Infant
Diseases of:	No.	(Group)	Diseases	Morbidity	Mortality	Mortality
Infactive	A.01	2-V Typhoid Parathyphoid	x	†	†	
inicuve	A.02	5-7/ Dysentary	X	· <del> </del>	1	
Parasitic	A03	8-10/ Intestinal Parasites	X	<del> </del>		l
•	A 04	11-13/ Diantes	x	<del> </del>	<del> </del>	<del> </del>
(001-136)	A.05	14-16/ Tuberculosis		1	1	
	A.06	17-19/ Conjunctivities	X			
	A.07	20-22/ Whooping Cough		1		
	A.08	23-25/ Throat Ear Nose		1		
	A.09	26-28/ Tetanus			-	
	A.10	29-31/ Septicernia				
	All	32-34/ Cholors	X			
	A.12	35-37/ Varicella, Chickerspox				
,	A.13	38-40/ Measles				
•	A.14	41-43/ Dengue Fever	X	1	I	
	A.15	44-46/ Viral Hepatitis	X	I		
	A.16	47-49/ Malaria	Х	<u></u>		
	A.17	50-52/ Schistosomiasis	X			
	A.18	53-55/ Filariasis	X			
	A.19	56-58/ Venerial Diseases				
,	A.20	59-61/Other Bacter/Viral Dis.				
Nooplasms	B.01	62-64/ Malignant Neoplasms		1		
(140-239)	B.02	65-67/ Leukemia				
Endocrine, Nutritional	C.01	68-70/ Diabetes Mellitus			1	
& Metabolic	C.02	71-73/ Nutritional Deficiencies				
(250-279)	C.03	74-76/ Endocrine Disorder		1		
Blood & Blood	D.01	17-79/ Anemias				
Forming Organs (280-289)	1			J	.l	
Mental Disorder (290-319)	E.01					
Nervous System and	F.01	80-82/ Meringitis			<u> </u>	ļ <u></u>
Sense Organs (320-389)	F.02	83-85/ Nervous System				<u> </u>
Circulatory	G.01	86-88/ Heart Diseases		1	.l	ļ
Systems (390-459)	G.02	89-91/ Vascular Discases		1	1	
	HOI	92-94/ Bronchiùs		1	<u> </u>	
Respiratory	H.02	95-97/ Pneumords			<u> </u>	
Systems	HO3	98-100/ Influenza		1	<b>1</b>	ļ
(460-519)	HO	101-103/ Obstructive Pulmonary		.		ļ <u>.</u>
	HOS	104-106/ ARI		1	<u>  </u>	<u> </u>
	101	107-109/ Appendicitis			<u> </u>	
Digestive System	102	110-112/ Gastroent Colisis		I	<u> </u>	ļ
(520-579)	E03	113-115/ Chronic Liver Disease		J	. <b> </b>	ļ
	1.04	116-118/ Other Diges, Diseases		<b></b>	<b></b>	<b>!</b>
Genito-Urinary	J.01	119-121/ Kidney/ Nephritis		.	L	
System (580-629)	J.02	122-124/ Urinary Infections			.	
Complication of Pregnancy &	KOI	125-127/ Prematurity				
the Puerperium (630-676)	L	less to a local poi		1		<b></b>
Sim & Subcuteneous	FOI	128-130/ Skin Discases	- X X	· ·	- <b> </b>	<u>-</u>
Tissue (680-709)	L.02	131-133/ Scabies	X	<b>+</b>	<del> </del>	<del> </del>
Musculaoskeletal & Connective Tissue (710-739)	M.01	134-136/ Arthrop., Rhoumatism				ļ
Congenital Anomalies (740- 759)	N.01	137-139/ Congenital Anomalies				
	P.01	140-142/ Birth Traums				
Certain Causes of Prenatal	P.02	143-145/ Birth Injuries & Difficult Labor				l
Morbitity & Mortality	P.03	145-148/ Resp. Fetus/Newborn				<u> </u>
(760-179)	P.04	159-151/ Other Prenatal Causes				L
Symptoms & III defined	Q 01	152-154/ Sensity			1	<u> </u>
Condition (780-799)	Q.02	155-157/ III-Defined Condition		1	1	<u></u>
Accidents, Poisoning	ROI	158-160/ Burns		1		l
& Violence	R_02	161-163/ Suffee, Foreign Body			<u> </u>	
(800-999)	R.03	164-166/ Other Accidents		1	1 .	I







Content: Healt	h - Facility and Prac	titioner	Date:		Page No.		Filename: I	
		Prov. No.	:	Mun. No.		Shtname:	(B)FacilityP	
Region No.:	Prov. Name:	L		Mun. Nar	ne:		Form No.:	B 3.2
		Num	iber of Fac			ber of Mo	dical Practi	oners
NEDA Geographic	Barangay	Hospital	RHU	BHS	Doctors	Nurses	Midwives	Dentists
Code		#	#	#	#	#	#	# :
			<del> </del>		<u> </u>			
		<b></b>				1	<u> </u>	
		}		}	<del> </del>	<del> </del>	<u> </u>	
		ļ	· · · · · · · · · · · · · · · · · · ·			<del> </del>	· · · · · · · · · · · · · · · · · · ·	
					<del></del>		<del> </del>	·
			<del> </del>	<b></b>	<del> </del>	<del> </del>		
			<b> </b>		<del> </del>	<del> </del>	<del> </del>	
		<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	
		<del> </del>	ļ	ļ	<del> </del>	<del> </del>		
				ļ <u>.</u>	<del> </del> -			
	·		<u> </u>		<del>                                     </del>	<del> </del>	<del> </del>	
				ļ	<del></del>	ļ		<u> </u>
			ļ	<u> </u>	<u> </u>		<del> </del>	
4	· ·		ļ					
				ļ	1		<u> </u>	<u> </u>
								ļ
			- 1					ļ
	1:					ļ	<b>_</b>	}
						<b></b>		ļ
			<u> </u>	<u> </u>			-	
					_			
				·	<u> </u>			<b> </b>
								ļ <u></u> -
								<u> </u>
			1:					
				1				
<b> </b>								
<b> </b>		1	T	1				
<b> </b>		<del> </del>	1					
<b> </b>	<del>,</del>			<del></del>		1		
<b> </b>			-	<del> </del>	1		1	
<b> </b>		<del> </del>	<del></del>		+	-	1	
<u> </u>	inicipal Total	<del></del>	<del></del>	- <del> </del>	+		1	ĺ

# 4. WATER SOURCE DATA

Conte	nt: Water Sources - General Information		Page:		Date:		Filenome: h.	0-res xls
Data (	Collection Level: Municipal		Prov. No.			Shtname: (1	M) General In	
	n Number:		Prov. Name	: 		<del> </del>	Form No	.: M 4.1
	Municipal Number/Municipal Name		6. 11			Shallow		
	Type of Source	<del></del>	Shallow Well	Deep Well	Spring	Well	Deep Welt	Spring
	1/ Total Number of Source	#			,	ļ		
	Implementation			<u> </u>	<u> </u>			
	2/ Government Agency	#		<u>.</u> <u></u>		ļ <b>.</b>	·	
	3/ Private	#						·
. !	Usage	1_			<u> </u>	<u> </u>	<del> </del>	
	4/ Drinking	. #			: 			
atio	5/ Washing/Bathing	#		2				
E.	6/ Gardening	#	<u>                                     </u>			·-··-		
guz	7/ Irrigation	#			<u>.</u>			
E.	8/ Industrial	#	<u> </u>					
General Information	Water Quality	1_		<u> </u>		ļ	<u> </u>	
ľ	9/ High Iron/Manganese Content	#		±========				
Ī .	10/ High Chloride Content	#			· 	<b> </b>		<del>-</del>
	11/ Turbidity/Color/Smell	#						
]	Production	1_		<u> </u>				
	12/ Less/No Water in dry season	#	<u> </u>				<u>.</u>	: .:
	13/ Usable through the year	#	<u> </u>				· 	<del></del>
<u> </u>	Technical		1	1 1 20 5 2 5 24 5 2	<u> </u>	250.00000000000000000000000000000000000	1 - 4 1 2 2 2 3 1 1 1 1	62 N 692
ł	14/ Diameter < 100 min (4")	#						
	15/ Diameter >= 100 mm (4")	#		Lak		40.20	13.5	
ខ្ល	16/ SWL < 5 in below ground	#	l	<u> </u>			. <u>!</u>	
) ati	17/ SWL >= 5 m below ground	#						
orn	18/ Specific Capacity < 3 m³/hr/m	#		1.73				
Well Information	19/ Specific Capacity >= 3 m ³ /hr/m	#		842.2	10.40	86 T		18 A 3
3	20/ B-Value < 1,600 s/m ³	#	120	-A-114 K	12.52.41	1.00	6.6	100
1	21/ B-Value < 1,000 s/m ³	#	4200	1122/12	34/48	13182	100	100 (84)
	22/ C-Value < 60,000 s ² m ⁶ (Well Loss Const.)	#						<b>100</b> 100
ŀ	23/ C-Value >= 60,000 s ² m ⁶	#					(公司)	<b>317.</b> 53
	Technical	+	1824834				;	
1	24/ T-Value < 0.001 m²/s	#	(Files)	(150) A	域的消	(68\V)	D'ATTA	\$\$5.5%
1	25/ T-Value >= 0.001 m²/s	#	<b>W. 194</b>	KI S	HA DO	K-7-7-7	11/1/14	<b>经</b> 外2的
ation	26/ S-Value < 0.01	#		Hill			1 ( S) Y	<b>38</b> (3)
	27/ S-Value >= 0.01	#		27. W			130.53	(12 15V)
, Lo	Geology		1	P.SKS.PARE			1	
Aquifer Inform	28/ Alluvial Formation	#	N/AX	14 L	12.0	STATE OF	112231	Macri
, N	29/ Volcanic Formation	#	17.33		THE STATE	3.50	<b>《</b>	的研究
\ \ ²	30/ Limestone Formation	#	1222			1		经验的
1	31/ Sandstone Formation	#	X	ALC: Y		C	4	g. Miller
	32/ Other Sediment Formation		17.00	FOR GIVE	1834	163375	KKKY	经外线
-	Technical	╅	10100		***************************************	1		
	33/ Minimum Yield < 10 m³/h	#	T					
٤	34/ Minimum Yield >= 10 m³/h	-   #	1			1	•	•
, i	Other	+	<del> </del>	i				
Spring Info.	35/ Topped Using Gravity	#	<b></b>			T		
S	36/ Undeveloped Spring	-   '#	]		•	1		-
i	37/ Untapped Spring	"		•		1	•	•
<u>L</u>	SD: A. Savily Genre		<del></del>			tan receive		

LEGEND: 4 - Specify figure

Conte	nt: Water Sources - General I:				Page:	Date:		Filename: h20-	
	Collection Level: Barangay	Prov. No.:			Mun. No.			General Information	
Regio	n Number:	Prov. Name:	۳,		Mun. Name:	Bures and and the second	· · · · · · · · · · · · · · · · · · ·	Form No.: B 4	.1
	Barangay Number/Barang	ay Name		<u> </u>					
	Type of Source	e		Shallow Well	Oceo Well	Spring	Shallow Well	Deep Well	Spring
	I/ Total Number of Source		*						
	implementation								
	2/ Government Agency		*			! <del>-</del> : =======:			
	3/ Private		ş						
	Usage						<u> </u>		
ا ے	4/ Drinking		•	: 			L	; •	
General Information	S/ Washing/Bathing		•					·	
ξ	6/ Gardening		•						
S.E	7/ Irrigation						<b>.</b>		
ž	8/ Industrial		ø				1		
36	Water Quality								
٥	9/ High Iron/Manganese Cont	ent	*						— *
	10/ High Chloride Content		*			· 		: 	
	11/ Turbidity/Color/Smell		#				i		
	Fraduction						ļ	<u> </u>	
	12/ Less/No Water in dry seaso	on .	*			: ••••••	l		
	13/ Usable through the year		#			· ·			
	Technical		_	! ************************************	i de was redicinal de dise	ļ Patrintskais laikie	2222222	i xorumat naturalitura	100000000000000000000000000000000000000
	(4") t4/ Diameter < 100 mm (4")		#		24 St. A.		Section.		
	15/ Diameter >= 100 mm (4*)		#	vienes	a same	elections	MED E		200
ę	16/ SWL < 5 m below ground		#		- <del></del>	· }		· ·	·
nati	17/ SWL >= 5 in below ground	5	#						Language and Cale To
Ę	18/ Specific Cap. < 3 m3/br/m		#					26.3	提供到的
Well Information	19/ Specific Cap. >= 3 m3/bi/n	1	#	(V + 10)			7.6		2.00
₹	20/ B-Value < 1,000 s/m ³		#			. Set . 2.0			多数是在
	21/ B-Value < 1,000 s/m ³		#	7.77					3311X
	?2/ C-Value < 60,000 s ² m* (W	ell Loss Const.)	#	1				PR-27-17	A RIGH
	23/ C-Value >= 60,000 s ² m ⁶		#	2.24	14 E-	44.14	V	April 100	Same.
<b>}</b>	Technical		_						
1	24/ T-Value < 0.001 m ² /s		#	All Archite	Property (A)	8.54-3-S	<b>沙拉克</b> 泰	14 47/12	FRUM
1	25/ T-Value >= 0.001 m ² /s		#		10000			<b>科学等为以</b>	M. L. Vec
ŝ	26/ S-Value < 0.01		#	NUMBER OF	100		SIGHT.	学的认	<b>第26</b> 700本
Ę	27/ S-Value >= 0.01		#					19 3 PE	<b>新疆</b>
ခို	Geology		_						
quifer Information	28/ Alluvial Formation		#	4			<b>****</b>		<b>多</b> 数约定
Į į	29/ Volcanic Formation		Ħ						LANG.
ĬŽ	30/ Limestone Formation		*						AXXX (II)
	31/ Sandstone Formation		*				134	A SALAN	
	32/ Other Sediment Formation	· · · · · · · · · · · · · · · · · · ·	#					<b>《在参与》</b>	S. J. S. Commission
	Technical				entracing de la Constitución	The extension		[	•
	33/ Minimum Vield < 10 m²/t	,	*		1				
ě	34/ Minimum Yield >= 10 m		#			· · · · · · · · · · · · · · · · · · ·	1		
Spring Info	Other		_			i			
ĮĘ	35/ Tapped Using Gravity		*	I					
"	36/ Undeveloped Spring		*		• • •	•			
	37/ Untapped Spring		#			•	1	•	•
L	The Constitution of the		<u> </u>	A			-	The Residence of the State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of	

LEGEND: 4 - Specify figure

8

Content: Water Sources - Untapped Sprin	ng Information	1	Page No.:
Data Collection Level: Barangay	Mun. No.:		Date:
Region Number:	Mun. Name:		Filename: h2o-res.xls
rov. No.:	Brgy. No.		Shtname: (B) Spring
rov. Name:	Brgy, Name:		Form no.: B 4.2
Description of Information	Number		Data
Owner of the Untapped Spring Site		<u></u>	
Production during dry Season (Liter/minute	s) ·		
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 a	nd Transmiss	ion Route)	
			•
	*.		
	:		
	:		
		:	

Content: Water Sources - Well Informatio	ก			Page No.:
Data Collection Level: Barangay	Mun. No.:			Date:
Region Number:	Mun. Nam	e:		Filename: h2o-res.xls
Prov. No.:	Brgy, No.		أدخانك ساحت موديون بي	Shtname: (B) Well
Prov. Name:	Brgy. Nam	e:		Form no.: B 4.3
Description of Information	Number		Da	ta
Owner of the Well				
Well Depth				
Water Level				
Use				Western Western
Abstract				
Water Quality				
Production			· · ·	
Year Constructed				d bengan salah salah salah salah pergananyan di dap da salah salah salah salah salah salah salah salah salah s
Number of Household				
SKETCH (Location of Well, Service and	Transmissi	ion Route)		

5. WATER SUPPLY SYSTEMS

Content: WATER SUPP	LY - Level II System Date: fem Prov. No.:	Page: Mun. No	Filename h20supp.xls :: Shtname (S)Level II P1-2
Data Collection Level: Sys		Mun. Na	
legion No.:	Province Name:		DATA
INFO. GROUP	INFO DESCRIPTION	CODE	DATA
	2/ Identification (Source No.)	#	
System Identification	3/ Name Owner of System	ch	
	4/ Coordinates Scheme Cntr.	# .	
	5/ Barangay a	#	
	6/ Barangay b	#	
A A	7/ Barangay c	#	
System Coverage	8/ Barangay d	#	
	9/ Barangay c	#	
	10/ Barangay f	#	
	11/ Construction Year	#	
	12/ Population in Service Area	#	
Original Design	13/ No. of Households in Service Area	#	
Assumption	14/ Rural Pop. Served by Communal Faucets	#	
кээширичи	15/ Urban Pop. Served by Communal Faucets	#	
Fill in: 14 -15 or 16-17	16/ No. of Rural HH Served by Communal Faucets	#	
FIII ID: 14-15 OF 10-17	17/ No. of Urban HH Served by Communal Faucets	#	
	18/ Number of Communal Faucets	#	
	19/ Year of Update	#	
	20/ Pop. in Service Area	#	
t skiel Continu	21/ No. of Households in Service Area	#	
Actual System	22/ Rural Pop. Served by Communal Faucets	#	
Including Extension	23/ Urban Pop. Served by Communal Faucets	#	
	24/ No. of Rural HH Served by Communal Faucets	-   - ",	
Fill in: 22-23 or 24-25	25/ No. of Urban HH Served by Communal Faucets	<del>                                     </del>	
	26/ Number of Communal Faucets	# #	<del></del>
	20/ Number of Community Pauces	+ <del>"</del>	<del>  </del>
Water Sources	27/ Type of Source 28/ Source Caracity (m²//	1) #	
	20 0001	* }	
	29/ Length of Transmission Main (r		
:	30/ Length of Distribution Main (r	12 #	
Distribution System	31/ Number of Reservous		
Disdiconor of trem	32/ Total Volume of Reservoirs (m		
	33/ No. of Metered Communal Faucets	#	
	34/ No. of Unmetered Communal Faucets	#	
	35/ Supply Period (hrs/	d) #	
	Dirty Water		184 Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co
. "	36/ a) Everyday	#	
1	37/b) Once a Week	#	
•	38/c) Once a Month	#	
	39/d) Occasionally	#	
٠	Taste / Smell		
	40/ a) Good Taste	#	
0	41/b) Salty Taste	#	
Service Level	42/ c) Woody Teste	#	
during	43/ d) Metallic Taste	#	
Dry Season	41/e) Others	#	
	Supply Interruption		Carlotte Carlotte Control Control
:	45/ - Power Failure (times'mon	h) #	
	46' - Pump Breakdown (times/mon		
1:	47/ - Pipe Burst (times/mon		
	48/ Other (times/mon		
<b>1</b> '	Water Pressure	<u>-t</u>	
	49' - No. of Faucets w. Adeq. Pres. (% of tot	al) #	
l	50/ - No. of Faucets w. Inadeq. Pres. (% of to		

1

I

Content: WATER SUPI	PLY - Level II System   Date:		Page:		Filename:h20supp.xd:
Data Collection Level: Sy	rstem Prov. No.:		Mun. No.		S)Level II P2-2
Region No.:	Province Name:		Mun. Na	ne:	Form No.: \$ 5.1.2
INFO. GROUP	INFO DESCRIPTION	N .	CODE	D.	ATA
	51/ No. of Technical Professionals		#		
Staff	52/ No. of Administrative Staff		#		
SIAH	53/ No. of Collectors		#		
	54/ Total No. of Staff		#		
	Who does the repair?		<u> </u>	्र विकास विदेश कर्नु हैं हैं होने कर कर	अव्यक्तिकारी विकास स्थापन
	55/a) Local Tradesman		x		
Repair	56/b) MEO/CEO		x		<u> </u>
	57/e) PEO		x		
	58/d) DEO		x		
	59/ Arinual Expenditures	(Pesos/Yr)	#		
	60/- Wages	(Pesos/Yt)	#		
	61/- Fuel, Chemicals, Materials	(Pesos/Yt)	#		
Expenditures	62/ - Transport	(Pesos/Yt)	#		
-	63/ - Repairs	(Peses/Yr)	#		
	64/ - Loan Repayment	(Peses/Yr)	Ħ		
	65/ + Others	(Peses/Yr)	#		
	66/ Consumers Payment	(Pesos/year)	#		<u> </u>
	67/a) Per pail	(Pesos'pail)	#	,	
Tariff Structure	68 b) Per volume	(Pesos'm³)	#		
1 amil Subcrate	69/c) Per household	(Pesos/HH)	#		
	70/d) Others		X		
	71/ Average Collection Efficiency	(%)			
	72/ Annual Billings		#		
	73/ Billings to P.F. Consumers	(Pesos/Yt)	*		
Billing	74/ Billings to H.C. Consumers	(Pesos/Yr)	ä		
	75/ Expected Subsidies	(Pesos/Yr)	#		
	76/ Others	(Pesos/Yr)			7.
	77/ Annual Income	(Pesos/Yr)	#		
	78/ - Payment by P.F. Consumers	(Pesos/Yr)			<u> </u>
Revenues	79/ - Payment by H.C. Consumers	(Pesos/Yr)			
	80/ - Subsidies	(Pesos/Yr)	#		<u> </u>
	81/ - Others	(Pesos/Yr)	#		

	Y - Level III System Date:		Page:	Filename h20supp x
Data Collection Level: Sys	tem Prov. No.:		Mun. No	: Shiname:(S)Level III P1-2
legion No.:	Province Name;		Mun Na	
INFO. GROUP	INFO DESCRIPTION	j	CODE	DATA
	2/ Identification (Source No.)		Ħ	
System Identification	3/ Name/Owner of System		ch	
-,	4/ Coordinates Scheme Critr.	1	#	
	Municipalities Covered by System			REMARKS ASSESSED AND AND AND ASSESSED.
	5/ Municipality a		#	
	6/ No. of Cov. Rural Bgys. in Mun. a		# .	
	7/No. of Cov. Urban Bgys. in Mun. a		H	
	8/ Municipality b		#	
System Coverage	9/ No. of Cov. Rural Bgys. Mun. b		#	
	10/No. of Cov. Urban Bgys. Mun. b		#	
			#	
	11/ Municipality c		#	
	12/No. of Cov. Rural Bgys. Mun. c		#	
	13/ No. of Cov. Urban Bgys. Mun. c		#	
	14/Construction Year			
	15/ Size of Service Area	(ha)]	#	
	16/ Population in Service Area		#	
	17/ Households in Service Area		#	
	18/ Area with Level III Services	(ha)	#	
	19/ Area with Level II Services	(ba)	#	
	20/ Area with Level I Services	(h)	#	and the second second second second
	21/ Area with No Services	(ha)	#	<u>allalainikka kalikulainikka laika laika laika kalikula</u>
	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		Ħ	
Fill in: 22 -25 or 26-30	27/ Rural Households w/ Level III Services		#	
	28/ Urban Households w/ Level III Services		#	
	29/ Households with Level II Services		#	
	30/ Households with Level I Services		#	
	31/ Households with No Services		#	
	32/ House Connections		#	
	33/ Population per House Connection	:	#	
1	34/ Households per House Connection		#	
	35/ Conmunal Faucets		#	
	36/ Population per Communal Faucets		#	
	37/ Households per Communal Faucets		#	
			<del>                                     </del>	
	38/ Year of Update	<del></del>	#	
	39/ Size of Service Area	(ha)	<del></del>	
	40/ Population in Service Area		#	
	41/ Households in Service Area			
	42/ Area with Level III Services	(ha)		
	43/ Area with Level II Services	(ba)		
	44/ Area with Level I Services	(ha)	1	\$4,664,664,664,664,664,664,664,664,664,6
	45/ Area with No Services	(ha)		
	46/ Rural Pop. with Level III Services		#	<u> </u>
Actual System	47/ Urban Pop. with Level III Services	<del></del> -	#	
Including Extension	48/ Population with Level II Services		#	<u> </u>
Protection Protections	49/ Population with Level 1 Services		#	
Fill in: 46-49 or 51-54	50/. Population with No Services		#	
10101-40-42-01-71-74	51/ Rural Households with Level III Services		#	
1	52/ Urban Households with Level III Services		#	
•	53/ Households with Level II Services		#	
	54/ Households with Level 1 Services		#	
	55/ Households with No Services		#	
	56/ House Connections		#	
	57/ Population per House Connection		#	
	58/ Communal Faucets		Ħ	
	59/ Pop. per Communal Faucet		#	
	60/ HH per Communal Faucet		#	







Content: WATER SUPPL	Y - Level III System Date:		Page:	Filename: h20supp.xls
Data Collection Level: Syst	em Prov. No.:	······································	Mun. No	
Region 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/h)	#	
	64/ Operating Time	(hrs/d)	Ħ	
	65/ Main Source B: (Source Type)		Ħ	
	66/-Source No.		#	
	67/ - Source Capacity	(m³/h)		
	68/ Operating Time	(hrs/d)		
	69/ Main Source C: (Source Type)		#	
	70/ -Source No.		#	
	717 -Source Capacity	(m³/h)		
	721-Operating Time	(hrs/d)	#	
	73/ Main Source D: (Source Type)			
	74/-Source No.			
	75/-Source Capacity	(m³/h)		
	76/-Operating Time	(hrs/d)	#	
	77/ Main Source E: (Source Type) 78/-Source No.		#	
		(m³/h)	#	
Water Sources	79/ Source Capacity	(hrs/d)		
	80/ Operating Time 81/ Main Source : F (Source Type)	(102.0)	#	
	82/ -Source No.		#	
	83/ -Source Capacity	(m³/h)		
}	84/-Operating Time	(hrs/d)		
	Other Well Sources	(,,,,,,		en eterligis di conserva e con a conserva e
	85/ -Number		#	
	86/ -Total Capacity	(m³/h)	#	
1	87/ -Tota! Production	(m³/d)		
	Other Surface Water Sources			A MANAGER AND REAL PROPERTY OF THE SECOND
	88/ -Number	· · · · · · · · · · · · · · · · · · ·	#	
	89/ -Total Capacity	(m³/h)	#	
	90/ •Total Production	(m³/d)		
	Other Spring Sources		#	
	91/-Number		Ħ	
	92/ -Total Capacity		#	
	93/ -Total Production	:	#	
ļ	Water Production			
	94/ Grand Total Production	<del>-</del>	# .	
1	Last Year's Production			
1	95/ -January	(m²/month)		
	96/-Feburary	(m³/month)		
1	97/ -March	(m³/month)		
1	98/ -April	(m³/month)	1	
1	99/ -May	(m³/month)	#	
Production Statistics	100/ -June	(m³/month)	#	
1	101/ -July	(m³/month)	į‡	
	102/ -August	(m³/month)	#	
•	103/ -September	(m³/month)	#	
1	104/-October	(m³/month)	Ħ	:
	105/ -November	(m³/month)	Ħ	
i	106/ -December	(m²/menth)	#	
	107/ Length of Transmission Mains	(m)	Ħ	
Transmission/	108/ Length of Distribution Mains	(m)	Ħ	
Distribution	109/ Number of Reservoirs		ji;	
	110/ Total Volume of Reservoirs	(m³)	#	

	LY - Level III System Date:		Page: Mun. No	Filename:h20supp.s :: Shtname:(S)Level III P3-4
ata Collection Level: Sy			Mun. Na	
gion No.:	Province Name:			
INTO. GROUP	INFO DESCRIPTI		CODE	DATA
	111/ Supply Period	(hrs'd)	#	
	Dirty Water			इस्टाइन के वर्षे प्रवास - इन्हें के वेह आ वेह वेह स्वरास विकास
	112/a) Everyday		ä	
	113/b) Once a Week		#	
	114/c) Once a Month		#	
	115/d) Occasionally		#	
	Taste / Smell			<b>电影器的重要的影响和多点。</b>
	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			スングの対象を記するとのできるというというです。
	121/ - Power Failure	(times/month)	#	
	122/ - Pump Breakdown	(times month)	Ħ	
	123/ - Pipe Burst	(times/menth)	Ħ	
	124/ • Other	(times/month)	#	
	Water Pressure			a version the protection by the first
	125/ - Supply, 2nd floor	(% of Total)	#	
	126/ - Supply, Ground floor	(% of Total)	#	
	127/ - Inadequate Pressure	(% of Total)	Ħ	
	Domestic H.C. Consumers			THE PERSONAL WAS TRANSPORTED AS
	128/ - Number of Metered Connectic	XCS	: #	
	129/ - Consumption	(m³/d)	#	
	130/ - Number of Unmetered Connec		#	
•		.uors		andres and the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sectio
	Domestic P.F. Consumers		#	
	131/ - Number of Metered Public Fa	uces / Lo		
	132/ - Consumption	(m³/d)	#	
	133/ - Number of Unmetered Public	Faucets	#	TO A SECRETARY OF THE A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRETARY PROJECT AND A SECRET
	Institutional Consumers			
Consumer	134/ - Number of Metered Connection	ons	#	
Consumer	135/ - Consumption	(m³/d)	#	
•	136/ · Number of Unmetered Conne	tions	#	
	Commercial Consumers			and the property of the second states and the second second
<i>*</i> *	137/ - Number of Metered Connection		*	
	138/ - Consumption	(m³/d)	#	
	139/ - Number of Unmetered Conne	tions	#	
	Industrial Consumers	1 1		
	140/ - Number of Metered Connection	xis	#	
	141/ - Consumption	(m³/d)	#	
•	142/ - Number of Unmetered Conne	·	#	
	143/ No. of Technical Professionals	- LICELO	#	
	144/ No. of Operators		#	
· ·	145/ No. of Technical Support Staff		#	
Staff	146/ No. of Administrative Staff		#	
	147/ No. of Collectors		# -	
	148/ Total No. of Staff		#	
		(m³/):ear)	#	
	149/ Metered Consumption	<del></del>	<del></del>	
	1507 - January	(m³/month)	#	
	151/-Feburary	(m³/month)		
	152/ -March	(m³/month)		
4	153/ -April	(m³/month)	#	
	154/ -May	(m³/nionth)	#	
	155/ -June	(m³/month)		
Consumption		(ni ³ /month)	<del></del>	
-	156/-July			
	157/ •August	<u>(m³/month)</u>	#	
	158/-September	(m³/month)	#	
	159/-October	(m³/month)	#	
	160/ - November	(m³/month)	#	
	161/ - December	(m³/month)	#	
	162/ Last Year's Consumption	(m³/year)		







ontent: WATER SUPPI	Y - Level III System	Prov. No.:		Page: Mun. No	Filename:h20supp  Shtname:(S)Level III P4-4
ata Collection Level: Sys	Province Name:	11104.110		Mun N	
legion No.:	1	DESCRIPTION	<del>, , , , , , , , , , , , , , , , , , , </del>	CODE	
INFO. GROUP		DESCRIPTIO			
	163/ - Domestic		(Pesos'm)		
Consumption	164/ • Institutional		(Pesos'm ³ )		
•	165/ - Commercial		(Pesos'm³)	<u> </u>	
(continued)	166/ - Industrial		(Pesos'm³)	#	
	167/ - Others		(m³/yτ)	#	
	168/ Aroual Expendi	tures	(Pesos/yr)	#	
	169/ - Wages		(Pesos yt)	#	
	170/ · Fuel, Chem, M	laterials	(Pesos/yr)		
Expenditures	171/ - Transport		(Pesos yt		
	172/ - Repairs		(Pesos yt	#	
	173/ - Loan Repayme	nt	(Pesos/yr)		
	174/ • Others		(Pesos yr	#	
	Residential Cons	umption:		<u> </u>	<b>建设的企业工程的企业工程的企业工程</b>
	173/0 - 10	m³/mouth	(Pesos/m³	#	
	176/11 - 20	m³/month	(Pesos/m³	#	
	177/21 - 30	m³/mouth	(Pesos/m ³	#	
•	178/31 - 40	m'/mouth	(Pesos/m ³		
		m month	(Pesos m ³	#	
•	179/ 41 & Up		(Pesos/m ³		
•	180' Flat Rate per Me		(resear	<del>' </del> -	AREST CONTROL OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF T
	Institutional Con		(D) ( )		**************************************
	181/0 - 10	m³/month	(Pesos m ³		
	182/11 - 20	m³/month	(Pesos/m ³		
and the second	183/21 - 30	m³/month	(Pesos m	) #	
	184/31 - 40	m³/month	(Pesos/m ³	) #	
	185/41 & Up	m³/month	(Pesos m	) #	
	186/ Flat Rate per M		(Pesos m	) #	
Tariff Structure	Commercial Cor			4	PANEL HOPE IN CONTROLLE SIL
Intill Description	187/0 - 10	m³/month	(Pesos/m³	1 #	
		m³/month	(Pesos/m³		
	188/11 - 20			4	
	189/21 - 30	m³/month	(Pesos/m²	4	<del> </del>
	190/31 - 40	m³/month	(Pesos m		
•	191/41 & Up	m³/month	(Pesos/m		
	192/ Flat Rate per M	onth	(Pesos/ni	) #	
	Endustrial Consu	mption:	<u> </u>	<u> </u>	\$.8 -> 13 -0810 big 10, 108 8 55 4 (0.0 b)
	193/0 - 10	m³/month	(Pesos m	) #	
	194/11 - 20	m³/month	(Pesos m	)   #	
	195/21 - 30	m³/month	(Pesos/m)	) #	
	196/31 - 40	m³/month	(Pesos/m)	4	
		m³/month	(Pesos/m	4	
	197/41 & Up			11	
	198/ Flat Rate per M		(Pesos/m²		1
	199/ Avg. Collection 200/ Annual Revenu		(Pesos/yr	/1	<del>                                     </del>
	201/ - Residential	<u>c&gt;</u>	(Pesos/yr		
• •	201/ - Residential 202/ - Institutional		(Pesos/yr	/\	1
	203/ - Commercial	<del></del>	(Pesos/yr	4	1
	204/ - Industrial		(Peses'yr	4	<del> </del>
Revenues			(Peses')	4	
•	205/ - Others Policy on Non-P	armeat	(16303)1	4	The first of the first with the state of the
	206/ - Time Before I		r(cb)	1 #	
	2007 - Time Before I		(0.3):	7 7	
	208/ - Reconnection		(Pesos		- <del></del>



PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: W			į					Date:		_	Page			ruename:nzosupp.xis	ZUSUPP.XIS
	Content, Water Supply - Acted a name	ביים נ				Province Number								Shtname:(F)Lovel I	I level I
Data Collect	Data Collection Level: Inturkipus	1				Deaving Name	.074.0							Form No.: F 5.3.1	F 5.3.1
Region Number.	ıber:					Lionino: IA	alric.	المراجعة المراجعة المراجعة							
					Public	Public Facility					Private	Private Facility			
NEDA Geographic Code	Municipality	Area	Deep Well	Shallow Well	Covered/ Improved Dug Well	Open Dug Well	Developed Spring	Sub-Total	Doep Well	Shallow Well	Covered/ Improved Dug Well	Open Dug Well	Rain Collector	Sub-Total	Total
		Urban													
		Rural													
	1	Total													
		Urban				a after de									
		Rural													
		Totai													
		Urban													
		Rura													
		Tota:													
		Crban													
		Rural									_				
		Total													
		Crban													
		Rura													
<u></u> -		Total													
		Crban													
		Rura										_			
776		Total			1										
		Urban													
		Kura													
		Total													
		Urber	_												
		Ruff													
		Total									_				
		Set											_		
	-	Rura													
		Total													ļ
		Urben													
Pro	Provincial Total	Rural						:							
•		Total													