8.5 Service Coverage by Target Year

8.5.1 Water Supply

(1) Population to be served by Level II system in Phase I

Fifteen (15) untapped spring sources were listed up as shown in Chapter 7 during the course of PW4SP preparation. One (1) untapped spring source in Basey, among them, may be utilized for Level II system considering the additional population to be served and the required discharge (minimum 0.5 l/s or 40 - 50 m³/d).

Table 8.5.1 Population to be Served by Level II System in Phase I

Name of Municipality/City	Number of Untapped Spring	Number of Barangay to be Served	Number of Households to be Served	Population to be Served
Almagro				
Basey	1	1 .	100	471
Calbayog City				
Calbiga				
Catbalogan (Capital)				
Daram				
Gandara				
Hinabangan				
Jiabong	: ;			
Marabut				
Matuguinao				
Motiong				
Pagsanghan				
Paranas (Wright)				
Pinabacdao				
San Jorge				
San Jose De Buan				
San Sebastian				
Santa Margarita	1 1 1			
Santa Rita	100			:
Santo Niño				
Tagapul-An	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Talalora	10.00			
Tarangnan				
Villareal				
Zumarraga				
Provincial Total	1	1	10	0 471

(2) Population to be served by target year

Phase I

For urban area, the additional service coverage was estimated to be served by Level III service. For rural area, the additional population to be served by Level II systems with untapped springs was first calculated and the rest of additional service coverage was estimated to be served by Level I facilities.

Phase II

For urban area, the population served by Level I and II facilities in base year was considered to be absorbed by Level III service aside from the additional service coverage to be estimated by the sector target. For rural area, all existing facilities in Phase I was assumed to be utilized through the future.

The population to be served by target year is exhibited in Table 8.5.2 and Table 8.5.3.

Table 8.5.2 Population to be Served in Phase I (Water Supply)

9

		Populat	Population Served in the Base Year	d in the Ba	Se I car						•			
Name of	Area					Total		Service Coverage	overage	:	Addition	nal Popul	Additional Population to be Served	Served
Municipality		Level III	Level II	Tevel I	Total	Population	Level III	Level II	Level	Total	III IPATI	Level II	Level I	Total
	Lichan		222		222	321	76	222		298	76			76
Almaoro	Z D		1,908	6,366	8,274	11,661		1,908	6,366	8,274				
) . Was	Total		2,130		•	11,982		2,130	6,366	8.572				76
	Urban	3.957	L		l	11,961	6,792	586	3,350	10,731	2.835		_	2,835
Basev	Rug	i	1.083	8,337	16,187	29,142		1,554	9.719	18,040				1,853
Campa	Total	Γ				41,103	13,559	2:143	13,069	28,771	l	471	1,382	4.688
	Urban	Г		L		-	67,730	1,729	18,417	87,876	28,372			28.372
Calbayog City	S.	ı			42,579		12,588	7,944	2,968	23,500				
() () () () ()	Total	ı			_	143,209	Ľ	9,673	21,385	111,376	~			28,372
	Urban	L	l	L		4,772	869.7			4,698	1.131			1,131
Calbios	2	i		4,78	10,183	14,263	5,384		4.799	10,183		:		
18.	Total	1		4,78	13,750		10,082		4,799	14,881	1,131			1,131
	Urban	Γ	365	_	1	59,495	32,979	365	14,834	48,178				
Catbalogan	Z	i	-	L	ŀ		2,588	1,033	6888	12,510			1,447	744.
(Capital)	Ę	ľ		۳	59.241	82.248	35,567	1,398	23,723	60,688			1.44.7	1.447
	i thi	ļ	1	1.0	L	L	L	1,434	5,359	6,807	3.014			3,014
Damm	2		2 445	Ţ	Γ			2,445	14,394	16,839	1.			
	Total		3.879		ı		3,014	3,879	19,753	26,646				3,014
	Urban		210	1	1		1,688	210	3,076	4,974	1,688			
Candara	Rura			13,371	13,371	23,775			14,883	14,883			1,512	j
	Total		210	16,447	16,657	30,896	1,688	210	17,959	19,857	1,688		1.512	3,28
	Crban	4.795		1	4,799	6,100	4 799			4,799				
Hinabangan	Z I	1	L	4,408					4.408	4,408				
•	Total Ea	4,799	_	4,408	1.7	12,399		100	4 408	9,207				
	Urban	L			3,634	4,647	3.634			3,634				
Jiabong	Rural		1,526	4,829				1,526		_			865	865
	Total	3,634	1,526	4,829	6866		3	1,526					865	865
	Crban		121		756	1,309	310	171	585	- 1	310			310
Marabut	Rura		1.482	2,991	4.473	8,855		1,482	3.554				563	263
	Total		1.653		\$,229	10,164	310	1,653	4 139	۱.			\$63	873
	Urban		610	1,411	2,021	3,380	108	610	1.411	2,822	801	:		SO.
Matuguinao	Run			:	L	3,228		* *:	1 160	. 1,160			205	205
6	Total		019		2,976		801	019	2,571			:	205	.00
	Links		402	2329			1,302	1.404	2 329		1.302			1,302
Motions	E S				4 981	8,759		27.6.27.6.222.0	5.538	*			557	557
5	1		404	L	8.714	14,252	1,302	1,404	498 4	10,573	. 1 302		557	1,859
	Crban			L	Z	1,715	406	1	648	1.054	406			
Pazsanghan	Rura			3.981	186 :	6,953			4 423	4.423		1111	442	: 452
: :			-							ı				

Table 8.5.2 Population to be Served in Phase I (Water Supply) (Cont'd.)

		4	3	On the Day of Vone	7007 47				Phase I Coverage (2004)	overage (2004)			
Name of		ropuiae	OII SELVE	חווו נווג סק	3			·						
Municipality	Area	111 1000	I favo I	I pyel I	Total			Service Coverage	overage	\neg	Additto	Additional Population to be Served	ition to be	Serve
		111				Population	Level III	Level []	Level I		Level III	Level III Level II	Level 1	Total
	Urban	L	1.282	2,001	5,823	12,728	5,557	1.282	2,00	% 93,0	3,017			3.017
Paranas (Wright)	2	370	2,116	ı	881,8	13,059	370	2,116	6,533	9.019			831	831
/ 11 S 11 1 S 11 1 1 1 1 1 1 1 1 1 1 1 1	Log	2.910	3.398	ŀ	14.011	25,787	5,927	3,398	8,534	17,859	3,017		831	3.848
	Irhan	L		742	742	1,210	287		742	1,029	287			287
Pinahacdao	Sira			7.503	7,503	11,623			7,503	7,503.				
	i c			8.245	8,245	12,833	287		8,245	8,532	287			287
	Urban		472		422	3,520	834	422	1	1,256	834			83
San lorge	Kurs		1.145	9,106	7,251	10,261		1,145	6,106	7,251				
200	i ci		1.567		7,673	13,781	\$34	1,567	6.106	8,507	834			834
	Lithan		479		1,614	2,741	059	479	1,135	2,264	650			650
San Jose De Buan	Rural				509	3,999			763	763			254	2,24
	Total		479	2	2,123	6,740	059	479	1.898	3,027	650		254	ģ
	Urban			614	419	2,410	125		419	066	571			57.1
San Sehastian	Rura		1.	2.589	2,589	4,627			2,883	2,883	1977		292	294
	Total			3.008	3,008	7,037	571		3,302	3,873	571		292	865
	Irhan			61011	-	16.868	3,998		11,019	15.017	3,998	1.00		3.008
Santa Margarita	Rural			1374	1.	-			1,665	1.665	Same and	773	291	291
	Total			12,393	12.393		3,998		12,684	16,682	3,998		162	4,289
	1 Johan		920	668 9	,		L	076	6889	11,895	4,076	:-?		4,076
Santa Rita	2		667	10.646	11,313	15,502	ļ	199	11,632	12,299			986	986
	Lotal		1.587	17.545	19,132	32,702	4,076	1,587	18,531	24,194	4,076		986	5 062
	Crban		332	477	808	3,087	732	332	477	1.541	732			732
Santo Niño	Rural		917	4.411	5,328	10,704		917	5,092	600.9			681	: ⊗
	E C		1,249	4.888	6,137	13,791	732	1,249	5,569	7,550	732		: 681	1.413
	Urban			682	789	2,307	747		582	1,336	\$47	1.4.4.2		27
Tagapul-An	Rura		587	4.119	7	6,845		287	4,119	4,706		F-127		
	Total		587	4,908	1	9,152	547	587	4,908	6,042	547			2
	Urban	i.	75	1,226	1301	2,230	529	75	1,226	1.830	23			229
Talalora	Rural		351		3	4,793		351	3,474	3,825				
*	Total		426		5,126	7,023	528	426	8	5.655	\$29			
	Urban				1,621	3,702	877		1,621	2.498	877			
Tarangnan	Rura		458		10.50	18,020		458	10.043	10.50				
	Total		458			21 722	877	458	30	15.89	877			2 3
	Urban		3			3,543	3	9	:076	2,076	×			
Villareal	Rural		238		3,405	19,424	11 11 11 11	238	4,402	2 0 0 0 0 0 0			1.235	
	Total		398	,	4	22,967	00%	398	5,478	6,716	₹		1.235	2.075
	Urban			656	953	1,296	307		953	1,260	307		24,15	5
Zumamaga	Rural			957,01	10,756	14,405		F. 17.1. 17.1.	10,756	10,756				
>	Total			11,709	11,709	15,701	307		11,709	12.016	307			307
	Urban	90.834	10,404	78,366		311.583	148,034	10,40¢	78,366	78,366 236,803	57,200	100		57,199
Provincial Total	Rura	1	23,900		220,897	334,095	_	24.371	-	207,139			545	12.016
	Total	118.531	34,304		400,501	645.678	175.731	34.775	233,437	443.942	57,200	471	11,545	69.215

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Table 8.5.3 Population to be Served in Phase II (Water Supply)

		Pog	Population Served in 2004	erved in 2	004	:			Phase II Coverage (2010)	overage (2010)	:		:
Name of	Area					Totel		Service Coverage	overage		Addition	al Popula	Additional Population to be Served	Served
Municipality		Level III	Level II	Level 1	Total	Population	Level III Level II	Level II	Level I	Total	Levei III Level II	Level II	Level I	Total
		74	666		298	351	333			333	257			257
,	Croan	2		475 4	ľ	12	١	1,908	9,964	11.872			3,598	3,598
Almagno		ŕ		1			333	1	9.964	:2,205	257		3,598	3,855
	8			1		ľ	L			1,544	4,752			4,752
	Lega C	76/0	j	1		ľ	ļ	1.554	19,214	27,535			9,495	9.495
Basey	E I	10/10	2 / / 2	Γ	ľ			35.	3	39,079	4,752		9,495	14,247
	Total	13,559	1		١.	ľ	Ī	1	1:	121,092	53,362			53,362
;	E .	007.70	Ϊ	1	l			7944	2,968	23,500				
Calbayog City	בתק ה	97.70					ľ		2,968	144,592	53,362			53.362
	i ota	015.08	I.	۱:			ı	l		4,698				
· · · · · · · · · · · · · · · · · · ·	Croan	5,098		000			1.		8.327	13,711			3,528	3,528
Calbiga	Kura	5,384		667			1		8.327	8.409			3,528	3,528
	Total	10,082					1.			59.219	26.240			26,240
	Croan	32,979			١		.	1	033 81	121 66	L		1996	199.6
Catbalogan (Capital)	Rural -	2,588		ļ	1			2001	0000	5	26.76		900	ľ
	Total	735,567		2	٦			1,055	22.00	2	100			ı
	Croan	3,014	1,434	;	6.807		12,623		1	570.71	V.00.		1000	1
Daram	Rural			14,394	628'91	24.519		2,445	20,358	22.803			2	ľ
	Į.	40.	3.879	1			12,623	2,445	- ;	35,426	9,609		906°C	15.573
	11 1-1-10		ŀ	l	4,974		7,292			7,292	5,604			
1									23,835	23,835			8.952	1
Cantara	7	83.7		l.			7,292		23,835	31,127	5,604	:	8,952	<u>~</u>
	7				l.					5.872	1,073	4.77.	:	1.073
7.		1		4 408	L			:	5.935	5.935		1.1	1.527	1,527
Funacengen		4 700		4.408	9.207		5,872		5.935	11,307	1		-1.527	2,600
					:		4,858			4,858	1,224			
1,1	0		1 524	7095		1.5		1,526	12,396	13,922			6,702	1
Supposit	100	26.9.5		1	10,854	20,084	4,858	1,526	12,396	18,780	1.224		6.702	7,926
	1	310	1	ŀ,		1,309	1,244			1,244	934			
Adamshut	1		1		i,		3 11 1 113	7871	6.636	8.118			3,082	
ייניון קולון	1	012		L	6.102	10.038	1,244	1,482	6.636	9.362	934		3.082	4.016
	100at									3,663	2.862		1	2,862
	organ								3,424	3,424			2,764	١
'Matugunao	2	001	VI.V				3,663		3,424	7.087	2,862		2,264	:
	lotal.						L			5.480	4,178			4,178
	2			L					8,553	8,553			3,015	
Motions	2	100	1 404				348		8.553	14,033	4.178		3.015	7, 193
	tolal.									1.794	1388		:	
	5							1	7,118	7,118			2,695	
Pagsangnan	Ž.				50.00		1 704		7.118	8,912	1.388	:	2,695	
	iotai	400		,,,,			I							

Table 8.5.3 Population to be Served in Phase II (Water Supply) (Cont'd.)

		Pog	ulation S	Population Served in 2004	204				Phase II Coverage (2010)	overage ((2010)			
Name of	Arca							Service Coverage	overage		Addition	nal Popula	Additional Population to be Served	Served
Municipality		Level III	Level II	Level	Total	Population	Level III	Level II	Level 1	Total	Level III	Level III Level II	Level I	Total
	1 Jrhon	6 887	1.282	2,001	8.840	13,236	12.574			12,574	7,017			7.017
Downers (Mainht)		130		ļ	9.019		370	2,116	10,143	12,629			3,610	3.6.10
ratames (mirgin)	ŝ	5.927	3.398	ļ	17,859		12,944	2,116	10,143	25,203	1		3,610	10.627
	1 rhan	287		ļ	1,029	1,288	1.224			1.224	937			937
Denhandan	Rumal			7.503	7,503	12,370			1,50	1,504			4.001	8
	Total	287		8,245	8,532	13,658	1.224		1.504	12,728	.		8	4.938
	Lirban	834	422	Ŀ	1,256	3,833	3,641			3.6	2.807			2,807
Can Joros	Kura		1.145	6,106	7,251	11,172		1,145	9.245	10,390			3 139	3.139
200	100	834	1.567	l	8,507	15,005		1,145	9,245	14,031			3.139	5,946
	Lirban	650	479		2,264		2,929			2,929	2,279			2279
Kon fore De Bunn	D I				763				4.183	4,183			3,420	3,420
San Jose Lee Daniel	1	05.9	479		3.027	7,581	2,929		4,183	7, 12	2,279		3.420	5.699
	1	1.62			8	2,559				2,431	098'1			98.1
Cas Cabardian				2 883	2.883	4,913			4,569	4,569			1.686	1,686
Sparing Schooling	100	\$23		3 302	3.873	7,472	2,431		4.569	7,000	098'1		1.686	3,546
	1	ľ		010	15.017	18,065		1977		17,162	13,164			13,164
Cours Managerita	1	1		\$99	5002	4,898	1		4,555	4,555			2,890	2,880
Santa Ivangaria	1	1 000		12 684	ľ	22.963	17.162		4,555	21,717	13,164	1.0	2,890	16,054
	1001	7.07	020	L		18.515	L			17,589	13,513			13.513
		2/2	١	L	12 200		ļ	299	14,853	15,520			3,221	3,221
Santa Kuta	Yer	7,000	403	100	24 104		17.589	667	14.853	33.00	13,513		3 221	16.734
	1000	0/0		1	127					3.078				2346
:	10g	757	200		200			410	9 531	10.448			4.439	3.430
Santo Niño	Kura				200		8601		: ×	13.526	2 386		4439	6,785
	ofs.	707	1,649	2002	75.	303.0	1			2.383				1.836
	Caga C	ķ		207	1000		ı	\$	ATF A	120,9			22151	2215
Tagapul-An	Kura		187	4	\$ (77.7	106.5	100	711,	0 104	728.		2215	4.051
	Total		*	Ï	700	2 5	7,11			1112				1.682
	Cross	\$75		077	1 930	17.7	7	75.1	4 700	4 450			\$28	825
Talalora	Rura	,		1	5 2 2 2	2,000	, ,		4 200	192.9	1 682		853	2.507
	2007 1007	222	\$70		0000	1,567	2 021		1.	3.831	2 054			2954
	Crbsh	//×	027	6	20.001	10.633	6	74X	17 801	18.259		A	7.758	7.758
Tarangnan	Z Z	2		۱ ا	000 61	7466	1831	458	17.801	22,090	2.954		7,758	10,712
	Dia.	//0	ŀ	1	7000		1472			3.422				2582
	L C	0		1	4 640			238	18.127	18.365			13,725	27.23
Y III area	Lan.	070	900	1	6.716		3.422	238	18.127	21.787	2,582		13,725	16,307
	1003	201,	. 70		1 260		1.293	1 2 2 2		1,293	986		100	9%6
-1		3		10 756	10.750	15.132			14.073	14,073			3.317	3,317
Scumanaga Scumanaga	Y THE	COL		11 700	12.016	16.493	1.203		14.073	35.38	986		3.317	1303
	3	750 07	707.0		236 804	590 062	113.480			313,480	165.446			165,446
	200	1000	Į.	- [13 ×34	153 047		24.371	276.495	328.563	١.		114,729	114.729
Frovincial local	Kurai	760.77	366.85		253.037	C10.189	721 172		276.495	\$42.043	165.446		114,729	280,175
	Jotal	10,001	01111		1000000	******	1					Š		

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8.5.2 Sanitation

Table 8.5.4 Additional Number of Households to be Served in Phase I (Household Toilets)

Pour Flush VIP/Dry Total Total of H of	Pour VIP/ Flush 439 439 464 500 791 791 791 791 791 791 791 791 791 791	70tal 27 27 648 648 648 1,932 1,932 1,932 6,010 6,010 3,773 3,773		Hush F 7 7 7 7 249 249 2,366 2,366 95	~	VIP/Dry VIP/Dry 4 291 295 166 166 1774 940 1,578 2,521 2,521	Total 44 1,162 1,206 1,660 3,094 4,754		Pour Flush	Additional No. of HHs to be Served	2000
City Rural S72 2 27 2 27 2 27 2 27 2 2	Flush VIP/ 125 25 439 464 791 1,309 72 2,500 72 2,556 1 2,655 1 2,555	Total 27 27 648 648 949 1,932 1,932 1,932 3,773 3,773 3,773		7 2 6 6 9 9 9	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	291 295 166 774 1,578 2,521 63	Total 44 1,162 1,266 1,660 3,094 4,754	Flus	Pour	VIDIDA	3
Urban 25 27 Rural 464 211 648 Total 90 791 68 949 Rural 1,309 623 1,932 Total 572 5,009 429 6,010 2,104 Urban 572 2,565 1,217 3,773 Urban 31 267 23 3,73 2 Urban 424 3,713 318 4,455 1 Urban 424 3,713 318 4,455 1 Urban 424 4,639 759 1,367 1 Urban 424 4,639 759 1,367 1 Urban 395 30 425 1,549 Urban 395 30 425 1,449 Urban 37 364 126 390 Urban 37 364 126 390 Urban 37 564 154 360 Urban 37 564 126 390 Urban 37 564 156 390 Urban 37 565 1560 1560 Urban 37 565 1560 1560 Urban 37 565 1560 1560 1560 Urban 565 1560 1560 1560 Urban 565 1560 1560 1560	25 439 464 791 1,309 2,100 5,009 2,556 1 7,565 889	277 648 648 1,932 1,932 1,932 6,010 6,010 3,773 3,773			33 871 904 1,245 2,320 3,565 11,831 2,830 14,661	291 295 166 166 774 940 943 2521 63	44 1,162 1,206 1,660 3,094 4,754			415/11.7	Total
Rural 439 209 648 Total 464 211 648 Urban 80 791 68 949 Rural 1,309 623 1,932 Total 90 2,100 691 1,932 Urban 572 5,009 429 6,010 2,566 Urban 31 267 23 3,773 21 Urban 424 3,713 318 4,455 1 Urban 424 4,639 759 1,367 1 Urban 424 4,639 759 1,367 1 Urban 424 4,639 759 1,367 1 Urban 926 441 1,367 1 Urban 937 446 1,383 Total 937 466 1,349 Rural 982 467 1,449 Total 37 30 154 30 <tr< td=""><td>439 464 791 1,309 2,100 5,009 2,556 1 7,565 1 267 622</td><td>648 648 1,932 1,932 1,932 6,010 6,010 3,773 3,773</td><td></td><td></td><td>871 904 1,245 2,320 3,565 11,831 2,830 14,661</td><td>291 295 166 774 940 1,578 943 2,521 63</td><td>1,162 1,206 1,660 3,094 4,754</td><td>1</td><td>S</td><td>2</td><td>17</td></tr<>	439 464 791 1,309 2,100 5,009 2,556 1 7,565 1 267 622	648 648 1,932 1,932 1,932 6,010 6,010 3,773 3,773			871 904 1,245 2,320 3,565 11,831 2,830 14,661	291 295 166 774 940 1,578 943 2,521 63	1,162 1,206 1,660 3,094 4,754	1	S	2	17
Total 464 211 648 949 949 949 949 949 949 949 949 949 949 949 949 949 949 949 949 949 940 94	464 791 1,309 2,100 5,009 2,556 1 7,565 1 267 622 622	648 949 1,932 1,932 6,010 6,010 3,773 3,773			904 1,245 2,320 3,565 11,831 2,830 14,661	295 166 774 940 1,578 943 2,521 63	1,206 1,660 3,094 4,754		432	82	514
Wural 90 791 68 949 Rural 1,309 623 1,932 Total 90 2,100 691 1,932 Urban 572 5,009 429 6,010 2 City Rural 572 7,565 1,217 3,773 2 Ba Rural 31 267 23 3,713 2 Capital Rural 424 3,713 318 4,455 1 Orban 424 4,639 759 1,367 1 Capital Rural 926 441 1,367 1 Chal 424 4,639 759 1,367 1 Chal Rural 937 446 1,383 Arral 937 446 1,383 Arral 1,705 505 1,449 Arral 1,377 497 1,449 Arral 1,377 497 1,449	791 1,309 2,100 5,009 2,556 1 7,565 1 267 622 889	949 1,932 1,932 6,010 3,773 3,773 3,773			1,245 2,320 3,565 11,831 2,830 14,661	166 774 940 1,578 943 2,521 63	3,094 4,754	11 2	440	\$	531
Rural 1,309 623 1,932 Total 90 2,100 691 1,932 Urban 572 5,009 429 6,010 2 City Rural 572 7,565 1,217 3,773 2 Chal 31 267 23 3,773 2 Rural 622 296 918 Chal 31 889 319 918 Joban 424 3,713 318 4,455 1 Iogan (Capital) Rural 926 441 1,367 1 Iopan 424 4,639 759 1,367 1 Index Rural 937 446 1,383 Index Rural 982 467 1,449 Index 37 326 28 391 Index 37 360 154 360 Index 37 500 154 360	1,309 2,100 5,009 2,556 1,565 1,565 889	1,932 1,932 6,010 3,773 3,773 3,273			2,320 3,565 11,831 2,830 14,661 472	940 1,578 2,521 63	3,094	-	454	88	711
Total 90 2,100 691 1,932 Urban 572 5,009 429 6,010 2 Rural 572 7,565 1,217 3,773 2 Urban 31 267 23 321 Urban 424 3,713 318 4,455 1 Urban 424 4,639 759 1,367 Urban 70tal 305 30 425 I Other 377 3,713 318 4,455 1 Urban 70tal 307 446 1,333 Urban 37 364 126 390 Rural Rural 395 30 425 I Other 37 326 30 425 I Other 37 326 30 425 I Other 37 326 330 754 330	2,100 5,009 2,556 7,565 622 622 889	3,773 3,773 3,773 3,773			3,565 11,831 2,830 14,661 472	940 1,578 943 2,521 63	4,754		1,011	151	1.162
Urban 572 5,009 429 6,010 2 Rural 2,556 1,217 3,773 2 Total 31 267 23 321 Rural 31 267 23 373 2 Total 31 267 296 918 Urban 424 3,713 318 4,455 1 Urban 424 4,639 759 1,367 1 Urban 937 446 1,333 Total 1,705 505 1,383 Total 395 30 425 Rural 982 467 1,449 Total 37 326 28 391 Rural 37 326 28 391 Rural 37 326 28 391 Total 37 326 28 390 Total 37 467 1,449 Total 37	5,009 2,556 7,565 622 889	6,010 3,773 3,773 321			11,831 2,830 14,661 472	1,578 943 2,521 63			1.465	249	1,873
Rural 2,556 1,217 3,773 2 Total 572 7,565 1,646 3,773 2 Urban 31 267 23 321 Total 31 889 319 918 Urban 424 3,713 318 4,455 1 Urban 424 4,639 759 1,367 1 Urban 768 59 827 1 Urban 937 446 1,333 Total 1,705 505 1,383 Total 982 467 1,449 Total 377 497 1,449 Rural 37 326 28 391 Rural 37 564 126 390 Total 37 500 154 380	2,556 7,565 1,565 1,672 622 889	3,773 3,773 321 918		2,366	2,830 14,661 472	943 2,521 63	15,775	1.794	6,822	1.149	9,765
Total 572 7,565 1,646 3,773 2 Urban 31 267 23 321 Total 31 267 23 321 Total 31 889 319 918 Urban 424 3,713 318 4,455 1 Urban 768 59 1,367 1 Urban 937 446 1,333 Total 1,705 505 1,383 Total 395 30 425 Total 1,377 497 1,449 Total 37 326 28 391 Rural 37 326 28 391 Total 37 500 154 380	7,565 267 622 889	3,773		2,366	14,661	2,521	3,773		274		274
Urban 31 267 23 321 Rural 622 296 918 Total 31 889 319 918 Urban 424 3,713 318 4,455 1 Total 424 4,639 759 1,367 1 Urban 768 59 827 Total 1,705 505 1,383 Total 395 30 425 Total 1,705 505 1,449 Total 377 497 1,449 Urban 37 326 28 391 Urban 37 326 28 391 Urban 37 326 330 Urban 37 326 330 Urban 37 364 380 Total 37 497 1,449 Total 37 364 380 Total 37 364 380 Total 37 497 1,449 Total 37 364 380 Total 37 364 380 Total 37 465 156 380 Total 37 465 166 380	267 622 889	321		95	472	63	19,548	1,794	7,096	1,149	10.039
Rural 622 296 918 Total 31 889 319 918 918 926 9455 1 926 941 1.367 1 926 941 1.367 1 926 941 1.367 1 926 941 1.367 1 926 92	889	810	927				929	64	202	40	309
Total 31 889 319 918 Urban 424 3,713 318 4,455 1 Total 424 4,639 759 1,367 1 Total 1,705 505 1,383 Total 1,705 505 1,383 Total 1,705 467 1,449 Total 1,377 497 1,449 Urban 37 326 28 391 Urban 37 326 28 391 Urban 37 326 380 Urban 37 326 330 Urban 37 326 330 Total 37 364 380 Total 37 497 1,449 Total 37 364 380 Total 37 364 380 Total 37 497 1,449 Total 37 364 380 Total 37 380 Total 380	688	2	2,923	7 7 7 7	1,096	366	1,462		474	100	<u>4</u> 2
Urban 424 3,713 318 4,455 1 Rural 926 441 1,367 1 Urban 768 59 827 Rural 937 446 1,383 Total 1,705 505 1,383 Curban 395 30 425 Rural 982 467 1,449 Total 1,377 497 1,449 Chban 37 326 28 391 Rural 37 326 28 391 Total 37 564 126 390 Total 37 500 154 300	2 60 5	918	3,850	95	1,568	429	2,092	- 64 - 64		110	853
Rural 926 441 1,367 Total 424 4,639 759 1,367 1,167 Urban 768 59 827 Rural 937 446 1,383 Total 1,705 505 1,383 Rural 395 30 425 Total 982 467 1,449 Total 37 326 28 391 Rural 37 326 28 391 Total 37 564 126 390 Total 37 500 154 300	5,7,0	4,455	11,376	1,160	5,802	774	7,736	736	7,	456	3,281
Total 424 4,639 759 1,367 1 Urban 768 59 827 Rural 937 446 1,383 Total 1,705 505 1,383 Urban 395 30 425 Total 982 467 1,449 Total 1,377 497 1,449 Urban 37 326 28 391 Rural 264 126 390 Total 37 500 154 390	926	1.367	4,409		1,654	551	2,205		728	110	838
Urban 768 59 827 Rural 937 446 1,383 Total 1,705 505 1,383 Urban 395 30 425 Rural 982 467 1,449 Total 1,377 497 1,449 Urban 37 326 28 391 Rural 264 126 390 Total 37 590 154	4,639	1,367	15,785	1,160	7,456	1,325	156'6	736	2,817	995	4,119
Rural 937 446 1,383 Total 1,705 505 1,383 Urban 395 30 425 Rural 982 467 1,449 Total 1,377 497 1,449 Urban 37 326 28 391 ngan Rural 264 126 350 Total 37 590 154 390	292	827	2,263	231	1.154	154	1,539	231	. 386	95	712
Total 1,705 505 1,383 Urban 395 30 425 Rural 982 467 1,449 Total 1,377 497 1,449 Urban 37 326 28 391 ngan Rural 264 126 390 Total 37 500 154 390	 - -	1,383	4,462		1.673	558	2,231		736	112	848
Urban 395 30 425 Rural 982 467 1,449 Total 1,377 497 1,449 Urban 37 326 28 391 Rural 264 126 390 Total 37 500 154 380	05	1,383	6,725	231	2,827	712	3,770		-	207	1.560
Rural 982 467 1,449 Total 1,377 497 1,449 Urban 37 326 28 391 Rural 264 126 390 Total 37 590 154 380	જ	425	1,359	139	693	92	924	139		62	665
Total 1,377 497 1,449 Urban 37 326 28 391 Rural 264 126 390 Total 37 590 154 390		1,449	4,803		1.801	109	2,402		819	134	953
Urban 37 326 28 391 Rum 264 126 390 Theral 37 590 154 390		1,449	6,162	139	2,494	693	3,326	139	1,117	196	1,452
Ruml 264 126 390 176 390 176 390 154 190 154 190 154 190 156	326	391	1,089	111	956	74	741	74	230	46	350
7545 390	_	390	1,129		. 424	141	595		:	15	175
	290	390	2,218	111	086	215	1,306			19	525;
28 245 21 294	245	294	824	84	420	56	999	98		35	266
487 232 719	487		2,538		952	317	1,269		465	SS	250
Total 28 732 253 719	732		3,362	84	1.372	373	1.829	96	640	120	\$16

Table 8.5.4 Additional Number of Households to be Served in Phase I (Household Toilets) (Cont'a.)

		4	No. of Household Served	chold Serve	2			:	Phase I (Phase I Coverage (2004)	2004)			
Name of			m tue pa	pased real				7.1			444.40	No.	ULL to he	1
in aline of	Area		1	•		Total No.	.:	Household	Household Coverage		Additio	Dal No. or	Additional No. of files to be served	Served
Municipality/City		Flush	Flush	VIP/Dry	Total	of HHs	Flush	Pour Flush	VIP/Dry	Total	Flush	Pour Flush	VIP/Dry	Total
	Irhan		105	8	113	268	27	137	81	182	27	32	10	69
Marahit	Rum		370	17	246	-		651	217	898		281		322
	Toral		475	184	546	2,004	27	788	. 235	1,050	27	313	51	391
	I Irhan		171		184		62	311	- 41	414	62	140	82	230
Mathominao	Rura		125		181			223	74	- 297		86	15	113
	Total		296		184	1,203	62	534	115	711	62	238	43	343
	Urban		¥ 4	52	370	1,017	104	519	69	692	104	175	43	322
Motions	Rura		353		521			169	210	841		278	42	320
·	Total		769		521	2,698	101	1,150	279	1.533	194	453	85	642
	Urban		88		95	343	35	175		233	35	87	16	138
Рэосапоћап	Rura		251	120	371	_		694	12.	979		218	37	255
	Total		339		371		35	\$,	859	35	305	53	393
	Urban	89			725	2,471	252	1,260	168	1,680	183	989	116	955
Paranas (Wright)	Ritta			, ,	949		. : -	946	315	1,261		303	11	312
	Total	69	1.247		949		252	2,206		2,941	183	959	125	1,267
	I Irhan		84		06		23	115		153	23	31		63
Pinabacdao	Rura		445	2	. 657			853	285	1,138		408	73	481
	Total		529		657	2,500	23	968		1,291		439		544
	Urban		158		170		79	319	43	426	\$	161	31	256
San Jorge	Rura		433		639	2,060	•••	772		1,030		339		391
	Total		591	218	639	2,686	99	160,1	301	1,456	\$	200	83	87
	Urban		174		187	572	85.	292	39	389	58	118	26	202
San Jose De Buan	Rura		168	80	248			320	-	427		152	27	179
	Total		342	93	248	-	88	612	146	816	58	270	53	381
	Urban		14.1	-	152	448	97	228	31	305	46	23	2	153
San Sebastian	Rura		195	93	288	924		346	116	462		151	23	17
	Total		336	102	288	1,372	97	574	147	767	9**	238	43	327

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Table 8.5.4 Additional Number of Households to be Served in Phase I (Household Toilets) (Cont'd.)

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			***	0 11-1-	7									
			No. of House in the Ra	usenoid served Rased Year	2	:			Phase I	Phase I Coverage (2004)	(2004)			
Name of	Area							Household	Household Coverage		Additic	nal No. of	Additional No. of HHs to be Served	Served
Municipality/City		Flush	Pour Flush	VIP/Dry	Total	of HHs	Flush	Pour Flush	VIP/Dry	Total	Flush	Pour Flush	VIP/Dry	Total
are some	I (Phon		1.083		1.166	3,478	355	1,773	237	2,365	355	069	18	1,199
Santa Marcarita	N C		766	127	393			339	113	452		. 73		73
- Callet 1741 Callet	I G		1.349		393	4,382	355	2,112	350	2,817	355	763	72	1.272
	1 Jrhan		896		965		353	1,765	235	2,353	353	869	166	1,388
Canta Rita	Rural		765	_	1,130	3,016		1,131	377	1,508		366	12	378
	1,013		1,661		1,130		353	2,896	612	3,861	353	1,235	178	1,766
	Tirhan		225		242		99	333	44	443	66	108	27	201
Nino	12112		440	2	649	2,162	-	811	270	1,081		371	61	432
	100		665		649		99	1,144	314	1,524	99	479	88	633
	11.		135		145		54	272	36	362	54	. 137	26	217
Towns, A.	0		282		416			503	168	[22]		221	34	255
1 depth of the second	[a,c]		417		416		22	775	204	1,033	54	358	9	472
	I John		691		182		45	228	30	303	45	59	17	121
Tablom	2		177		261	688		334	111	. 445		157	27	182
T diameter	1000		346		261	1.335	45	562	141	248	45	216	4	305
	1		251		270		77	372	50	967	74	121	31	226
Toranoman	21129		089	(F)	1.004	3,540		1,327	443	1,770		647	119	766
	Total		931	343	1,004	4,270	74	1,699	493	2,266	74	763	150	992
	1 lehan		251		270		88	338	45	451	89	87	26	181
Villageal	Rural		761	363	1,124	3,679		1.380	460	1,840		619	97	716
	Total		1.012	382	1,124	4,342	88	1,718	205	2,291	-89	706	123	897
	Trhan		92		8		24	123	91	163	24	31	6	Z
7	G. 12		536	255	16/	2		1,012	337	1,349		476	82	558
190100	Total		628		791	:	24	1.135	353	1,512	24	507	91	622
	l'irhan	1251	16 510	-	19.124	9	6,152	30,766	4,101	41,019	4.901	14,256	2,738	21,895
Drovincial Total	2		15.412	ľ	22,750			25 669	8,560	34,229		10,257		11,767
	Total	1251		8.701	41.874	125,999	6,152	56,435	12,661	75,248	4,901	24,513	4.248	33.662
	1					ļ				-				

Table 8.5.5 Additional Number of Households to be Served in Phase II (Household Toilets)

Flush Flus			No.	No. households	ds Served in 2004	2004				Phase II	Phase II Coverage (2010)	(2010)	.:		
Pinch Flush Flush Tip Total Total Total Flush Flush	Name of	Area					1		Household	Coverage		Additic	nal No. of	HHs to be	erved
Urban	Municipality/City		Flush	- :	VIP/Dry	Total	of HHs	Flush	Pour	VIP/Dry	Total	Flush	Pour Flush	VIP/Dry	Total
Curion Strice S		I lehon	7	13	4	4	88	41	37	ð	82	34	4		38
Curban 7 70 cal 1,20 3,280 41 1,917 255 2,253 3.4 Curban 249 1,245 166 1,660 3,038 1,413 1,246 166 2,825 1,164 Curban 249 1,245 1,66 1,660 3,038 1,413 1,246 166 2,825 1,164 Total 2,366 1,831 1,578 16,775 31,866 14,818 13,239 1,578 29,635 1,267 Curban 2,366 1,831 1,578 1,578 1,578 3,756 1,245 29,635 1,247 Curban 2,366 1,661 2,521 19,48 3,812 1,243 1,578 2,521 3,888 3,41 4,754 Curban 95 1,668 2,521 19,48 3,812 1,243 1,818 3,625 2,526 2,518 Curban 95 1,568 4,29 2,692 4,919 825 2,399 4,92 3,653 1,347 Curban 1,160 2,802 1,462 3,586 2,491 8,254 2,399 3,667 2,506 2,506 2,506 Curban 1,160 7,456 1,325 9,941 2,1544 7,652 9,569 1,325 1,347 Curban 1,160 7,456 1,325 9,941 2,1544 7,652 9,569 1,325 1,324 Curban 1,160 2,802 1,325 3,220 3,220 3,697 2,1785 1,344 Curban 1,160 2,802 3,203 3,222 1,545 1,345 1,345 1,344 Curban 1,160 2,802 3,220 3,445 3,600 2,201 1,345 Curban 1,160 2,802 3,220 3,424 3,600 3,21 1,345 1,344 Curban 1,160 2,802 3,326 4,545 3,600 3,21 1,345 1,344 Curban 1,110 9,803 3,326 4,545 3,500 3,145 1,345 1,345 Curban 1,111 9,80 2,11 3,44 3,600 3,141 1,347 Curban 1,111 9,80 2,11 3,44 3,11 1,348 3,11 Curban 84 4,20 5,600 1,279 5,905 2,766 3,13 3,134 3,	A car c carry	0 C1 C011		871	106	1.162	3.192		1,880	291	2,171		1,009		1.009
Urban 249 1,245 166 1,600 3,038 1,413 1,246 166 2,825 1,164 1,246 166 2,825 1,164 1,246 166 2,825 1,164 1,246 1,246 1,246 1,246 1,245 1,744 5,032 3,756 7,44 5,032 3,756 7,44 5,032 3,656 1,647 3,186 1,4818 1,578 1,647 3,186 1,4818 1,578 1,642 2,836 943 3,773 6,256 4,254 4,254 4,254 4,254 4,254 4,254 4,254 4,254 4,254 4,254 1,245 2,836 4,254 1,245 2,836 9,43 1,245 1,254 4,254	A magao	Total	7	906		1 206	3.280	41	1,917	295	2,253		1,013		1.047
Rural		Litter I	249	1.245		1,660	3,038	1,413	1,246	166	2,825				1,165
Total 249 3,565 940 4,754 10,440 1,916 5,002 940 7,858 1,667 Urban 2,366 11,831 1,578 15,775 31,866 14,818 13,239 1,578 29,635 1,452 Urban 2,366 14,661 2,521 19,548 3,812 15,234 16,125 2,531 3,828 1,472 Urban 2,366 14,661 2,521 19,548 3,812 15,334 16,125 2,531 3,828 Urban 1,160 5,802 774 7,736 15,584 7,247 6,472 7,74 14,493 6,037 Urban 1,160 5,802 774 7,736 15,584 7,247 6,472 7,74 14,493 6,037 Urban 1,160 7,465 1,225 3,245 1,545 1,325 1,545 1,325 Urban 1,160 7,465 1,225 3,245 1,347 1,325 1,345 Urban 1,180 6,73 5,78 2,231 6,130 1,545 1,325 1,345 1,325 Urban 1,11 5,81 2,827 7,12 3,770 3,425 5,000 7,12 7,257 1,314 Urban 1,11 5,86 7,4 7,41 1,545 1,545 1,545 1,325 1,425 1,345 Urban 1,11 9,80 2,14 5,65 1,245 1,545 1,545 1,545 1,427 6,08 Urban 1,11 9,80 2,15 1,305 1,245 1,314 1,314 Urban 1,11 9,80 2,15 1,314 1,314 1,314 1,314 1,314 Urban 1,11 9,80 2,15 1,314 1,		Rurai		2.320		3,094	7,402	503	3,756	774	5,033		1,436		1.939
g City Runal 2,366 11,831 1,578 15,775 31,866 14,818 13,239 1,578 29,635 12,452 g City Runal 2,366 14,661 2,521 19,548 38,122 15,243 16,125 2,231 4,254 425 Total 2,366 14,661 2,521 19,548 38,122 15,243 16,125 2,231 14,244 425 Rural 95 472 63 1,233 574 510 63 2,567 2,511 429 365 1,167 3,683 12,877 405 Rural 1,160 5,802 774 7,736 15,584 7,247 6,472 774 14,493 6,087 Rural 1,160 7,456 1,326 1,584 7,247 6,472 774 14,493 6,087 Rural 1,160 7,456 1,326 4,052 9,569 4,053 3,097 3,134 3,134 Rural		Total	249	3.565		4,754	10,440	1,916	5,002	940	7,858	1,667	1,437		 2
g City Rumal 2,830 943 3,773 6,256 425 2,886 943 4,254 455 Total 2,366 14,661 2,521 19,548 38,122 15,243 16,125 2,521 33,889 12,877 Urban 95 472 63 630 1,233 574 510 63 1,479 479 Rural 1,160 5,802 774 7,736 1,584 7,247 6,472 774 14,493 6,087 gan (Capital) Rural 1,160 7,456 1,325 9,941 21,544 7,652 9,569 1,325 1,347 6,472 774 14,493 6,087 Furbal 1,160 7,456 1,325 9,941 21,544 7,652 9,569 1,324 4,053 405 Rural 1,164 1,539 3,322 1,545 1,369 1,314 Iobal 2,31 2,397 3,376 6,130 7,24 <		()rhan	2.366			15,775	31,866	14,818	13,239	1,578	29,635	12,452	1,408		13.860
Total 2,366	Calbayog City	Rural		ļ		3,773	6,256	425	2,886	943	4,254	425	8		481
Urban 95 472 63 630 1,233 574 510 63 1,147 479 Rural 1,096 366 1,462 3,686 251 1,889 366 2506 239 429 3,653 730 Total 95 1,568 429 2,092 4,919 825 2,399 429 3,653 774 14,493 6,037 gan (Capital) Rural 1,160 5,802 774 7,736 15,584 7,247 6,472 774 14,493 6,037 gan (Capital) Rural 1,160 5,802 774 7,736 15,584 7,247 6,472 774 14,493 6,037 Purban 231 1,154 1,53 3,222 1,569 1,53 1,314 1,53 1,346 1,53 3,45 1,346 1,346 1,34 1,34 1,34 1,34 1,34 1,34 1,34 1,34 1,34 1,34 1,34 <	6.0 60 600	Total	2.366	14.661	2	19,548	38,122	15,243	16,125	2,521	33,889	12,877	1.464		14,341
Rural 1,096 366 1,462 3,686 251 1,889 365 2,506 251 Total 95 1,568 429 2,092 4,919 825 2,399 429 3,683 730 Jurban 1,160 5,802 774 7,736 15,584 7,247 6,472 774 14,493 6,087 Jurban 1,160 5,802 774 7,736 15,584 7,247 6,472 774 14,493 6,087 Total 1,160 7,456 1,325 9,941 21,544 7,652 9,569 1,325 1,344 3,089 1,314 Urban 231 1,154 1,54 1,539 1,345 1,309 1,314 1,314 Rural 1,673 528 2,231 6,130 3,726 1,545 5,000 712 7257 1,314 Rural 1,801 601 2,402 6,407 3,756 601 4,357 608		Urban	28	472		630	1,233	574	510	63	1,147		38		517
Total 95 1,568 429 2,092 4,919 825 2,399 429 3,653 730 Urbun 1,160 5,802 774 7,736 15,584 7,247 6,472 774 14,493 6,087 Urban 1,160 7,456 1,325 9,941 21,544 7,652 9,569 1,325 4,053 4,053 Urban 231 1,154 1,44 1,539 3,322 1,545 1,390 154 3,089 1,314 Urban 231 2,877 712 3,770 9,452 1,545 5,000 712 7,257 1,314 Urban 139 693 922 924 1,919 893 800 92 1,785 7,54 Urban 111 556 74 741 1,545 719 644 741 1,085 Urban Rural 1,801 601 2,402 6,407 3,756 601 4,357 608 Urban 111 556 74 741 1,545 719 644 74 1,085 6,08 Urban Rural 1,801 601 2,402 6,407 3,756 601 4,357 608 Urban Rural 1,801 6,01 1,545 7,19 6,44 74 1,085 6,18 Urban Rural 1,801 6,01 1,545 7,19 1,588 2,15 2,522 6,08 Urban Rural 1,801 1,809 3,743 2,756 3,734 5,11 Rural 84 420 56 560 1,279 5,022 3,766 3,734 5,11 Total 1,801 1,809 2,754 3,734 5,11 Total 1,801 1,809 3,743 2,766 3,734 5,11 Total 1,801 1,809 3,743 2,766 3,734 5,11 Total 1,801 1,809 3,743 3,734 3,734 5,11 Total 1,801 1,809 3,743 3,734 3,734 5,11 Total 1,801 1,801 1,809 3,743 3,734 3,11 Total 1,801 1,80	Calbina	Rural		1.096		1,462	3,686	251		366	2,506		793		 Ş
Capital Fural 1,160 5,802 774 7,736 15,584 7,247 6,472 774 14,493 6,087 405 1,654 551 2,205 5,960 405 3,097 551 4,053 405 405 4,054 1,654 1,554 1,539 3,322 1,545 1,390 1,325 18,546 6,492 1,314 1,054 1,154 1,539 3,322 1,545 1,390 154 3,089 1,314 1,04an 1,573 588 2,221 6,130 7,12 7,125 1,345 1,314 1,04an 1,801 601 2,402 6,407 8,93 8,00 92 1,785 7,54 1,785 1,785 1,785 1,245 1,180 1,1801 601 2,402 6,407 8,93 4,556 6,142 7,54 1,437 6,08 1,180 1,180 1,085 1,180		Total	56	1.568		2,092	4,919	825		429	3,653		831		1561
Rural		Ĭ (rhan	1.160	5.802	ļ	7,736	15,584	7,247		774	14,493	6,087	029		6,757
Total 1,160 7,456 1,325 9,941 21,544 7,652 9,569 1,325 18,546 6,492 Urban 231 1,154 1,539 3,322 1,545 1,390 154 3,089 1,314 Rural 1,673 558 2,231 6,130 5,610 558 4,168 1,314 Cotal 2,31 2,877 712 3,770 9,452 1,545 5,000 712 7,257 1,314 Urban 139 603 92 924 1,919 893 8,000 712 7,257 1,314 Total 1,801 601 2,402 6,407 893 4,556 601 4,357 754 Urban 111 556 74 74 1,437 608 74 1,437 608 Urban Rural 111 980 215 1,306 3,141 719 1,588 215 608 Urban		Rura		1.654		2,205	5,960	405		551	4,053	405	1,443		1.848
Urban 231 1,154 1,54 1,539 3,322 1,545 1,546 3,089 1,314 Rural 1,673 558 2,231 6,130 5,540 5,58 4,168 1,314 Total 231 2,827 712 3,770 9,452 1,545 5,000 712 7,257 1,314 Urban 139 693 92 924 1,919 893 800 92 1,745 754 Total 139 2,494 693 3,326 8,326 693 4,556 601 4,357 754 Rural 111 556 74 741 1,545 719 644 74 1,437 608 Rural 111 980 215 1,306 3,141 719 1,588 2,15 608 Rural 84 420 56 560 1,279 595 538 56 1,189 511 Rural 84 </td <td></td> <td>Total</td> <td>1,160</td> <td>7.456</td> <td></td> <td>9,941</td> <td>21,544</td> <td>7,652</td> <td>695.6</td> <td>1,325</td> <td>18,546</td> <td>6,492</td> <td>2,113</td> <td></td> <td>8.605</td>		Total	1,160	7.456		9,941	21,544	7,652	695.6	1,325	18,546	6,492	2,113		8.605
Rural 1,673 558 2,231 6,130 3,610 558 4,168 Total 231 2,827 712 3,770 9,452 1,545 5,000 712 7,272 1,314 Urban 139 603 6,407 8,93 800 92 1,734 754 Rural 1,801 601 2,402 6,407 8,326 893 4,556 601 4,357 754 Cotal 139 2,494 693 3,226 8,326 893 4,556 601 4,357 608 gan Rural 424 141 565 1,596 719 644 74 1,437 608 Gan 111 980 215 1,306 3,141 719 1,588 215 2,522 608 Urban 84 420 56 560 1,279 595 538 56 1,189 511 Rural 84 420		Try av	12	1.154		1.539	3,322	1,545	1,390	154	3,089	1,314	236		1,550
Total 231 2.827 712 3.770 9.452 1,545 5,000 712 7.257 1,314 Urban 139 693 92 924 1,919 893 800 92 1,785 754 Rural 1,801 601 2,402 6,407 893 4,556 601 4,357 754 Total 113 2,494 693 3,226 8,93 4,556 693 6,142 754 Urban 111 556 74 741 1,545 719 644 74 1,437 608 Rural 111 980 215 1,396 3,141 719 1,588 215 2,522 608 Urban 84 420 56 560 1,279 595 538 56 1,189 511 Rural 84 420 37 1,269 3,743 2,228 317 2,228 317 2,228 317	Daram	Rural		1.673		2,231	6,130		3,610	858	4,168		1,937		1.937
Urban 139 693 92 1,919 893 800 92 1,785 754 Rural 1,801 601 2,402 6,407 3,756 601 4,357 754 Total 139 2,494 693 3,326 8,226 893 4,556 602 6,142 754 Urban 111 556 74 741 1,545 719 644 74 1,437 608 gan Rural 111 980 215 1,596 944 141 1,085 608 Urban 84 420 56 560 1,279 595 538 56 1,189 511 Rural 952 317 1,269 3,743 2,228 317 2,245 51 Rural 84 420 37 3,734 313 3,734 511		Total	231	2.827		3,770	9.452	1,545	2,000	712	7.257	1,314	2,173		3.487
Rural 1,801 601 2,402 6,407 3,756 601 4,357 Total 139 2,494 693 3,326 8,326 893 4,556 603 6,142 754 Urban 111 556 74 741 1,545 719 644 74 1,437 608 Rural 111 980 215 1,596 944 141 1,085 608 Urban 84 420 56 560 1,279 595 538 56 1,189 511 Rural 952 317 1,269 3,743 2,228 317 2,545 Rural 952 317 1,269 3,743 2,228 317 2,545 Total 84 420 56 560 1,279 5,228 317 2,228 317 2,245 Total 84 1372 3,734 511 502 2,766 373 3,734		Urban	139	693		924	1.919	893	800	92	1,785	754	107		861
Total 139 2,494 693 3,326 8,326 893 4,556 693 6,142 754 2 Urban 111 556 74 741 1,545 719 644 74 1,437 608 Rural 111 980 215 1,596 944 141 1,085 608 Urban 84 420 56 560 1,279 595 538 56 1,189 511 Rural 952 317 1,269 3,743 2,228 317 2,545 1 Total 84 420 56 560 1,279 595 538 56 1,189 511 Total 84 420 56 560 3,743 2,228 317 2,545 1 Total 84 1,372 373 1,829 5,022 595 2,766 373 3,734 511 1	Gandara	Rural		1,801		2,402	6,407		3,756	9	4357		1,955		1,955
gan Urban 111 556 74 741 1,545 719 644 74 1,437 608 gan Rural 424 141 565 1,596 944 141 1,085 608 Urban 84 420 56 560 1,279 595 538 56 1,189 511 Rural 952 317 1,269 3,743 2,228 317 2,545 1 Total 84 420 56 560 3,743 2,228 317 2,545 1 Rural 84 1,772 373 1,829 5,022 595 2,766 373 3,734 511 1		Total	139	2.494		3,326	8,326	893	4,556	693	6,142	754	2,062		2,816
gan Rural 424 141 565 1,596 944 141 1,085 Total 111 980 215 1,306 3,141 719 1,588 215 2,522 608 Urban 84 420 56 560 1,279 595 538 56 1,189 511 Rural 952 317 1,269 3,743 2,228 317 2,545 1 Total 84 1,372 373 1,829 5,022 595 2,766 373 3,734 511		Urban		556		741	1,545	719	48	74	1,437	809	88		8
Total 111 980 215 1,306 3,141 719 1,588 215 2,522 608 Urban 84 420 56 560 1,279 595 538 56 1,189 511 Rural 952 317 1,269 3,743 2,228 317 2,545 1 Total 84 1,372 373 1,829 5,022 595 2,766 373 3,734 511		Rural		424		565	1,596		944	141	1,085		220		22
Urban 84 420 56 560 1,279 595 538 56 1,189 511 Rural 952 317 1,269 3,743 2,228 317 2,545 1 Total 8,4 1,372 373 1,829 5,022 595 2,766 373 3,734 511 1		Total	===	980		1,306	3,141	719	1,588	215	2,522	809	809		1216
Rural 952 317 1,269 3,743 2,228 317 2,545 Total 8.4 1,372 373 1,829 5,022 595 2,766 373 3,734 511 1		Urban	28	420		260	1,279	565	538	56	1,189	511	118		629
Tree 84 1377 373 1829 5.022 595 2.766 373 3.734 511	٠	Rural		952	3	1,269	3,743		. 2,228	317	2,545		1,276	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,276
7,00		Total	84	1,372	373	1,829	5,022	595	2,766	373	3,734	511	1,394		1.905

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Table 8.5.5 Additional Number of Households to be Served in Phase II (Household Toilets) (Cont'd.)

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		No. P	ponsepolds	No. households Served in 2004	3004			:1	Phase II	Phase II Coverage (2010)	(2010)			
Name of	4 700							Household Coverage	Coverage		Additio	Additional No. of HHs to be Served	Hs to be	Served
Municipality/City		Flush	Pour Flush	VIP/Dry	Total	of HHs	Flush	Pour	VIP/Dry	Total	Flush	Pour Flush	VIP/Dry	Total
			721	18	182	327	152	134	18	304	125			125
	Croan		157	1	898	2		1,267	2	1,484		919		616
Marabut	Kura	20	882	235	1.050		152	1,401	235	1,788	125	616		741
	1 otal	69	311		414		644	407		897	387	8		483
9	CLEGIO	70	223		297			552	74	929		329		329
Ivianugumao	1010	Cy	534		711	1,885	449	656	115	1,523	387	425		SIZ
	T Johan	2	\$19		692	1,442	179	601	69	1,341	267	8.2		Àt.
7 (5.1.5)			1:5		841			1,353	210	1.563		722		777/
Suoporat	Tom	100	1.150		1.533		671	1,954	279	2,904	295	8		1,371
	Lishan	25	175	23	233	472	220	196	23	43\$	185	21		206
	D C	3	460		626			1,145	157	1,302		929		676
ragsangnan	Number of the second	36	VVY		859		220	1,341	180	1,741	185	697		\$82
	1001	250	1 260		1 680		1.539	1,370	168	3,077	1.287	110		1397
		707	770		1 261		231	1,763	315	2,309	231	817		1,048
Paranas (wright)	Kura	500	2000	483	2 041		1.770	3,133	483	5.386	1,518	927		2,445
	lotal	757	2,400		15.		05-	134	15	299	127	61		146
	Cross	7	630		1 138			1.818	285	2,103		\$96		965
Pinabacdao	Kura	25	890	000	1 201		150	1.952		2,402	127	984		1,111
	TOIS 1	3	210		476		446	402		891	382	83		465
,		3	Cul		1 030	2		1,641	258	1.899		869		869
San Jorge	Nura	177		102	1.456		446	2,043		2,790	382	952		1,334
	Lota	3			380		359	319	39	717	301	27		328
, ,	CTO	00			427	1125		859		765		338		338
San Jose De Buan	Kurai	0,7	070		816		359	77.6	146	1,482	301	365		999
		36			305			792		595	252	38		290
		0			697	-		719	116	835		373	1	373
San Sebastian	T C	AK.			767		298	586	147	1,430	252	411		663
	10141	F												

Table 8.5.5 Additional Number of Households to be Served in Phase II (Household Toilets) (Cont'd.)

		No.	No. households	ds Served in 2004	2004				Phase II	Phase II Coverage (2010)	(0102)			,
· ·	Area							Household Coverage	Coverage		Additio	nal No. of	Additional No. of HHs to be Served	erved
Municipality/City		Flush	Pour Flush	VIP/Dry	Total	of HHs	Flush	Pour Flush	VIP/Dry	Total	Flush	Pour Flush	VIP/Dry	Total
11.	1 Jrhan	355	1.773	237	2,365	4,516	2,100	1,863	237	4,200	1.745	90		1,535
<u> </u>	Rural		339	113	452	1,225	:	.720	113	833		381		381
၂ၕ	Total	355	2,112		2,817	5,741	2,100	2,583	350	5,033	1.745	471	-	2.2.6
	Urban	353	1.765		2,353	4,629	2,153	1,917	235	4.305	1,800	152		1.952
	Rural		1.131	377	1,508	4,172		2,460	377	2,837		1,329		1,329
lle	Total	353	2.896	612	3,861	8,801	2,153	4,377	612	7,142	1.800	1,481		3.281
<u> </u>	Urban	99	333		443	810	377	332	44	753	311	7		311
į	Right		811		1,081	2,809		1,640	270	1,910		829		878
۱۴	Total	99	144		1 524	3,619	377	1,972	314	2,663	311	829		1,140
<u>`</u>	[Jrhsn	2	272		362	627	292	255	36	- 583	238			238
مَانَ	N. I		503		671	1,861		1,097	168	1 265		\$94		294
ilę.	Total	54	775		1,033	2,488	262	1,352	204	1,848	238	594		832
	T Jrhan	45	228		303	582	271	240	30	541	226	12		238
يِّم	Rural		334	-	445	1,250	-	739	111	820		405		405
Ę	Total	45	562	141	748	1,832	271	626	141	1,391	226	417		643
	Urban	77	372		496	1,008	469	418	. 20	937	395	46		4
	Rura		1.327		1,770	4,908		2,894	443	3,337		1.567		1.567
Į e	Total	74	1,699		2,266	5,916	469	3,312	493	4,274	395	1.613		2,008
5	Urban	89	338	45	451	106	419	374	45	838	351	×		387
<u> 2</u>	Rural		1,380	4	1,840	4,937		2,897	460	3,357		1,517		1517
ΙĘ	Total	89	1.718	505	2,291	5,838	419	3,271	505	4.195	351	1.553		1,904
	Urban	24	123	16	163	340	158	142	91	316	134	19		153
اَمْ	Sural		1.012	33.7	1.349	3,783		2,235	337	2,572		1,223		1.223
Tota	Ē	24	1,135	353	1,512	4,123	158	2,377	353	2,388	134	1,242		1,376
	Urban	6.152	30.766	4,101	41,019	82,492	38,368	34,246	4,101	76,715	32,216	3,501		. 35,717
Provincial Total Rural	<u> </u>		25,669		34,229	88,267	1.815	49,644		60.019	1,815	23.975	: :	25,790
		53.	367	ľ	01000	000 000	10101	000 00	13761	126 751	27.021.	ンしてして	_	4. 507

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Table 8.5.6 Additional Number of Public School Students to be Served in Phases I and II (School Toilets)

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Phase II Coverage (2010)	Additional No. of Public School Students to be Served			19,889		5.090			495	553	536	202	1,103	523	787	436	662	389	359	334	1.379	866	458	352	199	1.048	465	41.677
Phase II Cov	Public School Students Coverage	2.661	9.488	32,022	4,645	19,445	7,907	6,946	3,073	3,974	2.437	1,058	3,663	2,120	6.602	3,302	2,657	1,307	1,608	4,455	7,152	3,204	2.268	1,730	5,305	5,616	3,251	147.896
· Denianted	Number of Public School Students in 2010	2,957	10,542	35,580	5,161	21,605	8,785	7.718	3,414	4,416	2,708	1,175	4,070	2,356	7,335	3,669	2,952	1.452	1,787	4,950	7,947	3,560	2,520	1,922	5,894	6,240	3,612	164,327
srage (2004)	Additional No. of Public School Student to be Served	801	3,259	10,493		6,475	2,476	2,145	1,058	1,181	861	296		637	2,215	1.026	562		529	1361	2,173	1,009	069	578	1.604	1.928	1,026	46,184
Phase I Coverage (2004)	Public School Students Coverage	2,161	6,859	12,133	4.848	14,355	7,036	5,985	2,578	3,421	1,901	856	2,560	1,597	5.815	2,866	1,995	918	1,249	4,121	5,773	2,209	1,810	1378	4,644	4.568	2,786	106,422
	Projected No. of Public School Student in 2004	2.552	10.377	33,415	4,993	20.620	7.883	6.830	3.370	3.762	2,742	944	3,672	2,028	7,054	3,266	2,531	1.291	1.683	4,333	6.921	3.213	2.196	1.842				15
	Std. No. of Public School Student that can be Scrved in the Base Year (1998)	1.360	3,600	1.640	3,280	7,880	4.560	3,840	1.520	2.240	1.040	980	2,560	096	3,600	1.840	1,200	816	720	2,760	3.600	1 200	1 120	800%	3 040	2,540	1,760	60,238
	Name of Municipality/ City	Almanara	Docer	Calbayon City	Calbina Calbina	Cathalogan (Canital)	Daram	Carden	Himbangan	Tabougan	Marabut	Mahighinao	Motions	Paccanchan	Paranas (Wright)	Pinabacdao	San loree	Can Jose De Buan	San Sehastian	Santa Margarita	Canta Bita	South Niño	Tagamy - An	Tololom	Tanada	Taranghan	VIIIIICAI	Provincial Total

Table 8.5.7 Additional Number of Public Utilities with Sanitary Toilets in Phase I and II

		Coverage in	Coverage in Base Year		Phase I Coverage			Phase I Coverage	
		(19	(1998)		(2007)				
Name of Municipality/City	Type	No. of PU	No. of PU	No. of PU	Add'l. No. of Public Utilities	No. of PU with Sanitary	No. of PU with Toilets	Add'l. No. of Public Utilities	No. of PU with Sanitary
		Facilities	Toilets	Facilities	with Sanitary Tollets	Toilets	Facilities	with Sanitary Toilets	Toilets
	Public Market								
· ·	Bus/Jeepney Terminal					:]			
Almagro	Parks/Playground								
	Total								
	Public Market							3	
	Bus/Jeepney Terminal	:							
Basey	Parks/Playground						- 1		
	Total	1	:-						
	Public Market	1		1		1	1		1
	Bus/leeney Terminal	00	S	8		8	8		8
Calbayog City	Parke/Plavoround	3	3	3		3	3		. 3
	Total	12	12	12		12	12		12
	Public Market								
	Bus/Jeepney Terminal		:						
Calbiga	Parks/Plaveround								
	Total								
	Public Market								
; ;	Bus/Jeepney Terminal			1		7			
Catbalogan (Capital)	Parks/Playground	1.0	1	1		1 2	1		
	Total	1	1	2	1	2	2		2
	Public Market								
	Bus/Jeepney Terminal								
Daram	Parks/Plaveround								
	Total								
	Public Market	-	1	1					
	Bus/Jeepney Terminal								
Gandara	Parks/Playground								
	Total					-	-		1
					-				

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Table 8.5.7 Additional Number of Public Utilities with Sanitary Toilets in Phase I and II (Cont'd.)

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								Dhace I Congrada	
		Coverage in Base Year (1998)	ge in Base Year (1998)		Phase I Coverage (2004)			(2010)	
Name of	Tvpe	No of PI	No. of PU	No. of PU	Add'1. No. of	No. of PU	No. of PU	Add'l. No. of	No. of PU
Municipality/City		with Toilets Facilities	with Sanitary Toilets	with Toilets Facilities	Public Utilities with Sanitary Toilets	with Sanitary Toilets	with Tollets Facilities	with Sanitary Toilets	with Sanitary Toilets
	Public Market								
	Bus/Jeepney Terminal								
Hinabangan	Parks/Plaveround								
	Total								
	Public Market								
	Bus/Jeeney Terminal			1					
Jiabong	Parks/Playzround								
	Total								
	Public Market								
-	Bus/Icensey Terminal								
Marabut	Destro Plantand								
	Taran in Brome								
	D. L. C. Marelon								
	Distribution Temporal								
Matuguinao	Desire Desired								
	Total								
	Dublic Market								
-	Bus/Jeenney Terminal								
Motiong	Parks/Plavoround				. 7 * .				
	Total								
	Public Market								
	Bus/Incomes Terminal								
Pagsanghan	Parks/Plaveround					:			
-	Total		:						
	Public Market							1	
-	Bus/Jeepney Terminal								
Paranas (Wright)	Parks/Plavground								
	Total		:	-					

Table 8.5.7 Additional Number of Public Utilities with Sanitary Tollets in Phase I and II (Cont'd.)

		Coverage in Base Year (1998)	Base Year		Phase I Coverage (2004)			Phase I Coverage (2010)	
Name of Municipality/City	Type	No. of PU with Toilets Facilities	No. of PU with Sanitary Toilets	No. of PU with Toilets Facilities	Add'l. No. of Public Utilities with Sanitary Toilers	No. of PU with Sanitary Toilets	No. of PU with Toilets Facilities	Add'l, No. of Public Utilities with Sanitary Toilets	No. of PU with Sanicary Toilets
	Public Market					*****	-111		
	Bus/Jeenney Terminal								
Pinabacdao	Parks/Plaveround						1111		
	Total								
	Public Market								
	Bus/Jeepney Terminal								
San Jorge	Parks/Playcround								
	Total								
	Public Market								
	Rus/Jeenney Terminal								
San Jose De Buan	Do-Los (D) assessment								
	Tem!								
	Dublic Market								
	Pare (Inches Terminal								
San Sebastian	Parke/Playoround								
	Total								
	Public Market								
	Bus/Jeenney Terminal								
Santa Margarita	Parks/Playground								
-	Total		:						
	Public Market			:					
	Bus/Jeenney Terminal								
Santa Rita	Parks/Plaveround								
	Total								
	Public Market								
	Bus/Jeepney Terminal								
Santo Niño	Parks/Playsround								
	Total								

()

Table 8.5.7 Additional Number of Public Utilities with Sanitary Toilets in Phase I and II (Cont'd.)

Name of Municipality/City	:. !!	Coverage in Base Year	Base Year		Phase I Coverage (2004)			Phase I Coverage (2010)	
	Type	No. of PU with Toilets Facilities	No. of PU with Sanitary Toilets	No. of PU with Tollets Facilities	Add'l. No. of Public Utilities with Sanitary Toilets	No. of PU with Sanitary Toilets	No. of PU with Toilets Facilities	Add'l. No. of Public Utilities with Sanitary Toilets	No. of PU with Sanitary Toilets
Public Market	urket					:	:'	,	
Bus/Jemp	Bus/Jemey Terminal								
Tagapul-An Parks/Playground	bunoa			1-12					
Total									
Public Market	urket								
	ev Terminal								
Talalora	Parks/Plaveround								
Total									
Public Market	irket								
Bus/Jeenne	Bus/Jeeney Terminal								
Tarangnan Parks/Plavoround	рипода								
Total	37								
Public Market	uket					-			
	Bus/Jeepney Terminal								
Villareal Parks/Playground	vground								
Total									
Public Man	Public Market								
	Bus/Jeepney Terminal					12			
Zemarraga Parks/Play	veround								
Total									
Public Market	urket	2	2	2		2	2		7
	Bus/Jeconey Terminal	8	8	6	1	6	6		٨
Provincial Total Parks/Playground	Veround	4	4	4		4	4		4
Total		14	14	15	-	1.5	15		15

8.6 Facilities, Equipment and Rehabilitation Required to Meet the Target Services

8.6.1 Water Supply

(1) Required water supply facilities

Urban water supply:

Urban water supply facilities required by target year shown in Table 8.6.1 were estimated as the required number of house connections based on the additional service coverage.

(

As reference, the following requirements were also estimated:

- daily average water demand at 100 lpcd consumption rate, and
- number of deep wells to meet the daily maximum water demand based on the groundwater productivity.

(daily maximum water demand = 1.3 x daily average water demand)

Information pertaining to the expansion plan of Level III systems was arranged to be indicated in Table 8.6.1 and details presented in Table 8.6.2, however, the required data were not available during this PW4SP preparation.

Rural water supply:

Rural water supply facilities required by target year shown in Table 8.6.3(a) were estimated as the number of Level II systems with number of communal faucets and the number of Level I wells broken-down to deep and shallow wells. One (1) untapped spring in Basey was identified suitable for Level II system during this PW4SP preparation.

(2) Required well drilling and rehabilitation equipment

Presently, the DPWH-DEO (in Catbalogan) has one unit of hand feed rotary type drilling rig applicable for shallow well only (6" of bit diameter and 40 ft. of depth).

Taking into account the existing equipment, the number of required equipment is estimated as described below.

Applicable type of well drilling equipment is determined considering the geological formation of the province, the easiness to technically operate. Both types of percussion and rotary are suitable for the soft and hard formations, and the percussion type can be easily operated and maintained without special training to drillers compared with the latter, it is very useful to bores in the boulders or cobbles formations. Thus, the drilling equipment of percussion type is recommendable to be selected in the PW4SP preparation.

Table 8.6.1 Urban Water Supply Facilities Required by Target Year

				,	200	,		Phace I (2004) 1	Requirements			Phase II (2010)	Phase II (2010) Requirements	
	Referen	ce on Ex	Reference on Expansion of E	Existing Level 111 System	111 Syste	E		Daily Average	Sally Average	7	Additional	Number of	Daily Average	Number of
Name of	Name of	647	No. of	No. of Served	Type of Water	Plan for	Additional	Number of	Water	Spring Dev't/	Population	House	Demand	Dev't
Municipality/City	Operating Body	ŧ	Barangay	Ň	Source	Ехранзіон	to be Served	Connections	(m3/dav)	Deep Well	to be served	Colline Choirs	(m ² /dav)	Deep Weil
Almaom	Not Applicable	Urban	N.A.	Z.A.			ì	. <u>.</u>			257	2	92	
		Rura	Y Z	Ž Ž	Y Z	₹	e .		,					
	G/A TOTAL	107		3.957						•		301	367	
Ваѕеу	Basey wil	E L) **	6,767	Surf	2	2,835	579	784		4,734	061,1	ì	٠
		Total	4	10,724										
Calbayog, City	Calbayog City WD Urban	Urban	15	39,358	į.,	;	10.273	307 >	2.837	. 4	53,362	13,341	5,336	r~
		Total	30	12,588	i na	340	71507	٨/١٠٠						
Calbiga	Calbiga WD	Crban	× 2	3,567	Sb	Ž.	1,131	220	113	-				- 72°
		Total	14	8,951	13									
Catbalogan (Capital)	Catbalogan WD	Urban	16	32,979	ďΣ	°N		:			26,240	95.5	2,624	4
		Tota	61	35.567										
Daram	Not Applicable	Urban	Ϋ́Ϋ́	X X	N.A.	Z,	3,014	536	301		609'6	2,402	961	N
		Total		17.334.00										
Gandara	Not Applicable	Urban	Y Z	Κ Z Z	Z Z	N.	1,688	322	169		5,604	1.401	260	p=4
		Total	1.100											
Hinabangan	Hinabangan WWS	Urban Rural	3	4,799	i Merit	Z.					1,073	368	107	••
		Total		4,799										
Jiabong	Jiabaong	Urban Rural	∞	3,934	S	2					1,224	306	122	-
		Total		3.634	,									
Marabut	Not Applicable	Kural Total	ď ď Z Z	₹ Z Z	Ż.	Z. Ą.	310	Z	31	-	934	45	53	,-
Матисилао	Not Applicable	Urban	1-1	ď Z	,	-	100	144	Ş	-	2,862	716	286	•••
) 		Kura	Ý.	Z A	¢ Z	7.A.	100	<u> </u>	3					
Motiong	Not Applicable	Crban	Ϋ́	N.A.	1	2	1 300	241	130		4,178	1,045	814	-
		Total Edit	×Z	, Y	į	ė.								
Paesanehan	Not Applicable	Urban	V.V.	NA.				5	14		1.388	347	139	
	: 	Rural	NA	Y Z	Y.	< Z	§	ō	i,					
		100 1		7 5 40										
Paranas (Wnght)	Paranas wwo	Rural Pural		170	åS	ž	3,017	286	302		7.0.7	\$C/1	30	·
		Total	\$	2,910										

Table 8.6.1 Urban Water Supply Facilities Required by Target Year

				Total Control	Y C. C.			Phase 1 (2004)	Phase 1 (2004) Requirements			Phase II (2010)	Phase II (2010) Requirements	
	Kereren	X 00 22	Damsion 91 4	RETERETE ON EXPANSION OF EXISTING LEVEL ILL SYSTEM	33,45			•	Daily Average	, umber of	1000/01/07	Mumbered	Daily Average	٧.
Name of	Name of	A re3	No. of	See in 1998	Type of	Plan for	Additional	Number of	Water		Population	Bouse	Water Demand	Spring Dev't
Municipality/City	Operating Body		Barangay	Population	Source	Expansion	to be Served	Connections	(m ² /dav)	Deep Well	to be Served	Connections	(wep/cm)	Deep Well
Pinabacdao	Not Applicable	Urban	N.A.	N.A.				: {	6		017	27.6	70	
		Rural	N.A.	Y.	₹ Z.	ď.	/87	2	63	•	, , ,			
Con Joseph	Not Applicable	Urban	Z.	N.A.								*		
Salesing		Kura	√z	Ϋ́Z	Ý Z	٠ ٢.	834	148	8		7,807	707	787	
		Total												
Can lose De Buan	Not Applicable	Crban	₹Z	Y.Z			:	:	;	:	-	Ş	ç	•
		Rural	N.A.	N.A.	Ϋ́	Y.Y	650	136	\$		27.78	2/0	077	•
		Total		100										
San Sebastian	Not Applicable	Urban	ΝÀ	N.A.			.;	•		-	4781	377	981	-
	•	Kurai	Ϋ́Z	N.A.	Ϋ́	Ϋ́Z	175	901	27		200	Ş	20:	•
		Total	127 C. V. 14	1 2 1 1										
Santa Marganita	Not Applicable	Urban	N.A.	N.A.		;	900	760	707	-	31.51	3.291	1,316	۲٠
		Kural	Y Z	₹ Z	ć Z	ż	5,770	270	20	•				
		Ţota:												
Santa Rita	Not Applicable	Ε Ω Ω	N.A.	YZ	;	,	7.047	8	808	-	13.533	3.378	1,351	C1
	;	Rural	N.A.	Y.Z.	₹	Ż.	0/0,	3	Š	•	!	1		
Santo Niño	Not Applicable	Urban	Y Z	Y Z	7	7	772	32	£	-	2,346	287	235	v-1
		L C	Ç	200										
	No. Amelianbla	Lings	¥ Z	٧.X	4 14						_			
ragabot-An	aropanddy ini	Rural	N.A.	₹ Z	N.	Z.A.	547	126	\$	_	38.1	459	\$	
		Total		4 1 1 1444										
Talalora	Not Applicable	Urban	Z.A.					,	{	-	6371		891	-
	:	Rural	N.A.	N.A.	X.	Ż.	229	<u>s</u>	7	-	7001	į	}	<u></u>
		Total	And the second											
Tarangnan	Not Applicable	Croan	Y .	Y Z	7	7	27.2		90		2,954	739	295	
Willareal	Not Applicable	Ligg.	A.N.	A.N.								•	G G	:
		Runal	4 Z	Z.	NA	√ Z	3	157	8		2,582	600	Š	•
	-	Total		1.5.7										Ī
	Not aminable	1	\ Z	X Z										•
Cumanaga Cumanaga	יייייייייייייייייייייייייייייייייייייי	Kura	₹ Z	A.V.	Ϋ́	N.	307	57	31		% %	247	8	
	1	Total		A 30 to 2.5										
		Urban		90,834						;				
Provincial Total	Fotal	Rural		27,697			57,200	11.146	5.722	56	165,446	41.00	0	·
		Total	- 40	118,531						1	_	1		
									:		,			

(;)

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Table 8.6.2 Plan for Expansion of Existing Level III Systems

Name of Municipality/	Name of Operating	Additional Areas	Additional	Addition Sou	al Water rces
City	Body	Barangay to be Covered	Population to be Served	Туре	Capacity (m³/day)
Basey	Basey WD				
Calbayog City	Calbayog City WD	the transfer of the			
Calbiga Calbiga	Calbiga WD	1 1 1			
Catbalogan (Capital)	Catbalogan WD		:		
Jiabong	Jiabaong				
Paranas (Wright)	Paranas WWS				

Table 8.6.3(a) Rural Water Supply Facilities Required by Target Year

Name of Municipality Number of System			3	300C	411						() () () () () ()	THE PROPERTY OF THE PROPERTY O		
<u> </u>			Phase 1	(-^^+)	Luase 1 (2004) Nedantenen									
-	I evel II	111			Level	41			•		Level I	el I		
Sys		No. 01	×	umber of I	Number of Deep Wells		No. of	į		Tumber of	Number of Deep Wells		No. of	Total
		Communal	40 m	80 m	120 m	120 m Sub-total	Wells		40 m	ш 08	120 m	Sub-total	Wells	
	1	Faucets											9	9
Almagro	\dagger			¢		0	Ç	oc.		49		8	95	159
Basey		20		8		0	14	3					-	
Calbayog City	- {									y		٧	53	S
Calbiga										21.		1.4	48	162
Catbalogan (Capital)				14		4		λ.					100	8
Daram	1					1	1	5		105		105	45	150
Gandara				7.		4	°	3		2		3	23	26
Hinabangan							7		1			12	100	112
Jiabong	+		7			7	X F	1					32	23
Marabut								, ,			ō	٥	19	38
Matuguinao		. 3			7	7	- (1 0	20				25	S
Motiong			4			4		7	07	45		45		45
Pagsanghan						0	ľ	ŀ				7	42	9
Paranas (Wright)				7		7	^			27		77	64	29
Pinabacdao										1,4,1		191	37	53
San Jorge]·					15	\[\sigma_2\]
San Jose De Buan						*	4	3 ⊲		27.		27	77	82
San Sebastian	+			*		-		7		64		49		67
Santa Margarita				* `		٧	1	121		22		22	32	\$
Santa Rita	1	1		°			C	20					150	150
Santo Niño	1												37	37
Tagapul-An	1								C			2	12	71
Talalora										130		130		130
Tarangnan						71		71		220		229		229
Villareal	1			9		0		2		7			35	56
Zumarraga											01	000	1 007	000 6
Provincial Total	1	20	9	73	2	81	72	50	40	*			1.77.	

Table 8.6.3(b) Rural Water Supply Facilities Required by Target Year

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				•							Phas	FIT (2010)	Phase II (2010) Requirements	nts		
			몺	Phase I (2004)	(2004) Requirements	ents						(i = 1	,	(COO.		
			Percenatge Alloc	Allocated t	o Public F:	cated to Public Facility (70%)	~			۾ ا	rcenatge A	Mocated to	Percenarge Allocated to Public Facility (1070)	6/0/) (Julie)		
Name of Municipality		Percent	Percentage Allocat	Hocated for	Public Wa	ted for Public Wells (80%) and re Public Spring Development (20%)	ind it (20%)			Percentag	centage All re Allocate	ocated for d for Publi	Percentage Allocated for Public Wells (80%) and Percentage Allocated for Public Spring Development (20%)	ls (80%) at evelopment	nd t (20%)	
		Imper of	Number of Deep Wells		No. of		No. of	Grand		Number of Deep Wells	Seep Wells		No. of	Total	No. of Spring	Grand
	4	80 m	120 m Sub	Sub-total	Shallow	Total	Spring Dev	Total	40 m	80 m	120 m	Sub-total	Wells		Dev.	Total
		30											34	አ	90	42
Almagno				٧	7	-	6	14		38		36	23	88	ន	Ξ
Basey		^														j
Calbayog City				200				1		4		4	29	33	8	41
Calbiga		ľ		ı	·	101		13		139		63	7.2	8	23	113
Catbalogan (Capital)						2							99	26	14	70
Daram						=	-	14		ĠŞ		85		88	13	105
Gandara		×		0	7					2		2	12	14	4	18
Hinabangan				•				×	7			7	55	79	16	78
Jiabong						0	1	3 V					29	29	7	36
Marabut					4	1) (1.1		=	23	8	27
Матидитао						7	-	7 V	15			15	1.4	29	7	36
Motiong	[7			7		1 6	1	1		26		26		56	9	32
Pagsanghan							- (r		4		4		¥	6	43
Paranas (Wright)				- -			1			19		16	22	38	6	47
Pinabacdao										0		6		30	7	37
San Jorge					ľ	1	-	F					32	32	8	0,7
San Jose De Buan		,		1	1	7	=	6		15		15	-	19	4	ଥ
San Sebashan		1 (, ,		2		F		27		22		27:	7	Q
Santa Marganta		7		1 6	4	1	2	6		12		12	SI	30	∞	38
Santa Ksta					~	15		9					84	3	21	[3
Santo Nino											L.		21	21	Ñ	58
Tagapul-An	2						1						7	8	2	01
Talalora	1.00	10.44								73		73		73	1.8	8
Tarangnan						ō	,	F		128		128		128	32	<u>3</u>
Villareal			x	×									31	31	8	39
Zumamaga									23	474		808	612	1,120	279	1,399
Provincial Total		07		44	40	700			3							

Medium size percusion drilling rig (truck-mounted type for deep well):

Average performance

- I well/30 days (5 m/day of drilling rate with finishing work)

6

- Annual accomplishment
 - 9 wells/year (365 days/year ÷ 30 days/well x 0.75)
- Required number
 - 1 set for the total 44 deep wells

Well rehabilitation equipment:

Average performance

- 1 welV7 days (well redevelopment and finishing work
- Annual accomplishment
- 39 wells/year (365 days/year ÷7 days/well x 0.75)

Required number

1 set for 10% of 44 Level I deep wells

Support vehicle:

Type - pick-up truck with winch, double cab

Required number

I unit for well rehabilitation

Considering the utilization of the existing rotary drilling rigs (applicable for shallow well only), it is necessary for the province to procure/mobilize 1 unit of medium size percussion rig for the medium-term development plan. Likewise, the following equipment shall be considered to meet the physical targets:

- 1 set of well rehabilitation equipment for 10% of deep wells (at least 1 set shall be held by the provincial government); and
- 1 unit of support vehicle for well rehabilitation.

In addition to the above, I unit of service truck equipped with crane are required for percussion rigs for hauling drilling tools and water.

Table 8.6.4 Urban Household Toilets Required by Target Year

												(0.000 TT		9,10		
,			Phas	Phase I (2004) R	04) Requirements	nts					Fuas	e 11 (2010)	Filase II (2010) Reduirentents	CHES	200	Ī
Name of	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Additional HHs to be Served	to be Serv		ž	s. of HHs to	No. of HHs to be Served		Add	itional HH	Additional HHs to be Served	yed ved		No. of HHS to be Served		
Municipality/City	danie danie	Pour Flush VIP/ Dry	VIP/Dry	Total	Flush	Pour Flush VIP/ Dry	VIP/ Dry	Total	Flush	Pour Flush VIP/ Dry	VIP/ Dry	Total	Flush		VIE/ DEV	10.7
		×	^	E		·	2	17	34	4		38	34	4		8
Aimagro		3,0	200	7117	150	454	8	711	1.165	Ī		1,165	1.162	1	-	1 165
Basey	VC1 .	,	1 140	0.765	1 704	6 822	1.149	9.765	12,452	1,408		13.860	12,452	1,408		13,860
Calbayog City	,,,	7700	, Q		1	202	04	8,	479	38		517	625	38		517
Calbiga	ž į		200	2 201	77.6	080 6	456	3 281	280.9	670		6.757	6,087	029		6,757
Catbalogan (Capital)	7,50		400	713	231	386	8	712	1314	236		1,550	1,314	236		1,550
Daram	167	300	5	8	130	20%	62	667	754	107		198	754	107		861
Candara			3 4	350	7.7	270	45	350	809	88		969	809	88	-	969
Hınabangan	7,3	37.	2 2	2,44	75	175	35	266	511	118		629	511	118		629
Jiabong	2 5		1	9	37.	٤	C.	69	125			125	125	-	:	125
Marabut	1		2 8	2020	8	 - -	28	230	387	8		483	387	96		483
Manguinao	70.	Ž,		222	12	175	43	322	567	82		649	267	82		\$
Motiong			7	120	38	68	181	138	182	21		206	185	2.1		206
Pagsanghan	ડે ફ		ין ני	930	3 5	3 8	911	8	1 287	110		1.397	1 287	110		1,397
(Paranas (Wright)	182	920	9 0	S S	23	25	20	18	127	13		146		10		146
Pinabacdao	57		, ,	730	3 3	3	31	75,6	182	83		\$85	382	83		465
San Jorge	\$ 3		7 2	200	3 8	130	36	202	301	77		328		27		328
San Jose De Buan	58		9	707	90	110	3 8	7,00	255	38		Š	252	38		280
San Sebastian	8		20	501	0	70 0	73.	50.	200	8		1 835		8	-	1.835
Santa Margarita	355		7	5	222	0,60	1	000	000	153		1 057		152		1.952
Santa Rita	353		2 2	282	2	906	35	100	311	701		311	311			311
Santo Niño	8			12/2	3 3	001	χ¢	217	226			238	238			238
Tagapul-An	2	7	9	1,17		25	27.	1,01	325	5		238	226	12	:	382
Talalora	45			1				177	202			100	305	45		2
Tarangnan	74	121	31	226	74		16	077				136	136	32		C85
Villareal	89		26	181	89	82	26	181	351	9		700		2		3
Zumarraga	24	1 31	6	64	72	31	6		Ā.			155	7.00	ï		25.717
Provincial Total	4,901	14,256	2,738	21.895	4,901	14,256	2,738	21,895	32,216	.3.501		35.717	52.210	2.304		

Table 8.6.5 Rural Household Toilets Required by Target Year

Name of Particle and Municipality (NY) Additional Histo to be Served			Diego		Deaming	944					Phas	e II (2010)	Phase II (2010) Requirements	ts		
Partity/City Pinest Pour Fluis 115	Name of	TAX TAXABLE A	Y. o. t. Com:	3	ייייייייייייייייייייייייייייייייייייייי	A of HHr	o he Served		Ade	fitional HR	s to be Sen	- S	No.	of HHs to	be Served	
Pristry Pris	Municipality/City	Additional H	TS to be Serv	7000		Pour Fluch	VIP/ Drv	1	Flush	Pour Flush	VIP/ Dry	Total	1 i	ur Flush	/IP/ Drv	Total
1,011 153 1,145 1,161 1,162 1,515 1,436 1,515 1,436 1,515 1,436		Ħ	() () () () ()	1 OLA 6 1 A	1 1031	C-1	çs	5.14		1 009		1.009		1,009		600.
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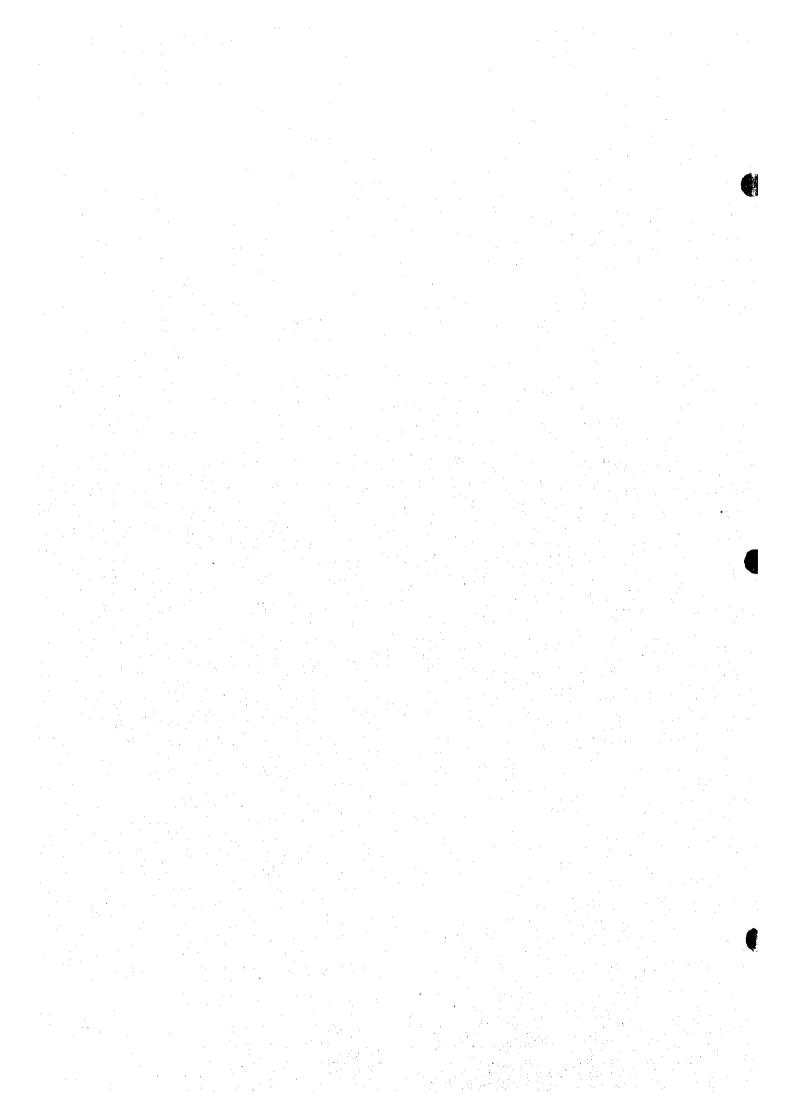
Table 8.6.6 Public School Toilets Required by Target Year

	D1	Decimination	unte	Phase II (2010) Requirements	Requirem	ents
	Fuse 1 (2004) Acquirement	arra minasu	3113			
	Additional Public	No. of	No. of	Additional Public	No. of	No. of
Name of Municipality	School Students to	Toilet	Toilet	School Students to	Toilet	Toilet
	be Served	Unit	Facilities	be Served	Unit	Facilities
Almoore	801	21	5	200	13	3
Pullagio	3.259		17	2,629	99	14
Dasey Calbayon City	10,493		53	19,889	498	100
Cathora Cathiga	1,568		8			
Cathalogan (Canital)	6.475		33	2,090	128	26
Daram	2,476	62	13	871	22	2
Condara	2,145		11	196	25	5
Linabangan	1.058		9	495	13	2
Topona,	1.181	30	9	553	14	
Marshut	861	22	5	536	14	3
Mathanina	296		2	202	9	
Motions				1.103	28	٥
Dogramshan	637	16	4	523	14	3
Doman (Mright)	2.215	56	12	787	20	4
Faranas (Wingar)	1.026		9	436	11	3
San Ionge	795		4	999	11	4
San Jose De Buan				389	01	2
San Sebastian	529	14	3	359		7
Santa Marcanta	1,361	35	1	334		7
Santa Ritz	2,173	55	11	1.379		7
Santo Niño	1,009	26	9	995		5
Taganil-An	069		7	458		(f)
Talalora	578	15	3	352	1.	7
Tamaman	1.604	41	6	199		4
Villaren	1.928	49	10	1.048		9
Zumarraga	1.026	26	9	465		3
Provincial Total	46.184	1.168	244	41,677	1,054	220
A 4 U TAMAMA A UNIT						

Table 8.6.7 Public Toilets Required by Target Year

		(A00C) I (2004)	Dhoca I (2004) Requirements			Phase II (2010)	Phase II (2010) Requirements	
		TANK TANK	- his Tollow			Number of P	Number of Public Toilets	
Nome of Municipality/City		Number of P	Number of Fublic Loners			TO TACKYON I	Dowled.	
Carrie of transcripancy	Public	Bus/Jeepney	Parks/	Total	Public	Rus/Jeepney	rarks	Total
	Market	Terminal	Plavground		Market	Terminal	Plaveround	
Almagro								
Basey								
Calbayog City								
Calbiga								
Catbalogan (Capital)		1		1				
Daram								
Gandara								
Hinabangan					:			
Jiabong								
Marabut								
Matuguinao								
Motiong								
Pagsanghan								
Paranas (Wright)								
Pinabacdao								
San Jorge								
San Jose De Buan								
San Sebastian								
Santa Marganta								
Santa Rita								
Santo Niño								
Tagapul-An								
Talalora								
Tarangnan								
Villareal								
Zumanaga								
Provincial Total		1						

SECTOR IMPLEMENTATION ARRANGEMENTS C



9. SECTOR MANAGEMENT FOR MEDIUM-TERM DEVELOPMENT

9.2 Sector Management

Accessing ODA Funds for Level III Systems

When considering sources of financing for new Level III systems or for existing Level III systems that are expanding, LGUs may tap their IRA or they may borrow funds from commercial or ODA institutions. In the case of LGUs that have formed a Water District to operate their system, a ready source of loan funds is the LWUA.

This section discusses how an LGU can access funds from an ODA agency in order to develop its Level III water system. It is presumed that the proposed Level III project has gone through the Project Development process stipulated by the NEDA in Rule 7, Articles 24 – 26 of its IRR of Board Resolution No. 4 (Series of 1994), Clause (G). Specifically, the proposed Level III project must be consistent with the Provincial/City/Municipal Water Supply, Sewerage and Sanitation Sector Plan that has been prepared and annually updated by their respective Planning and Development Office(s). On the basis of these local council approved sector plans, water supply investments will have been identified and developed into a local investment program that includes an appropriate financing plan.

It is worthwhile to reiterate the following NEDA prescriptions regarding project identification:

- "proposed investments shall be developed according to a demand-driven approach
 that would allow beneficiaries to select from among cost-effective technical options
 and from financing options. The LGUs may avail of technical assistance from the
 DILG in the preparation of these project packages (Rule 5)."
- "LGU systems shall be constructed on the basis of choosing among technical options that are affordable through the financial resources made available by users, communities and LGUs. The process of determining demand for a particular service delivery shall be concluded through a negotiated agreement between the LGU, water utility and the users, on how the costs will be shared at the town, barangay, and household levels."
- "for any Level III service, at least two technical options shall be explored: those of an inter-LGU service delivery organization involving amalgamation of service areas and of single LGU management systems."

(1) Project Initiation Stage

Based on their respective approved water sector plans, the province/municipality proposes a specific Level III water system following the NEDA guidelines on project identification. The provinces and component municipalities may submit their respective project proposals for ODA funding to the DILG. The DILG examines such requests and ensures that they are in conformity with the NEDA's Medium Term Public Investment Program (MTPIP), a master list of projects from which ODA agencies can select specific projects that they can fund. From the MTPIP, the ODA loan agency prepares its own short list of potential province and municipality beneficiaries/ grantees of its loan program. The ODA loan agency then proceeds to conduct its own feasibility study concerning its loan program and discusses this extensively with both the NEDA and the DILG (since the DILG will be the implementing agency for the ODA loan).

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While the DILG is designated as the implementing agency for the ODA loan program, a domestic lending institution (e.g. the Development Bank of the Philippines or DBP) can be contracted to administer the loan package and on-lend ODA funds to specific LGUs. [Note that the LWUA has served and continues to serve as a conduit for loans to Water Districts.] Under such a working arrangement, the DILG, the ODA agency, and the domestic lending institution affix their signatures on the ODA program loan documents.

The DILG now pre-screens LGUs who have expressed intent to borrow funds from the ODA loan facility. Together with consultants from the ODA agency, the DILG conducts briefings on the loan conditions to make sure that the province/municipality fully understands the financial and institutional commitments they have to make once they contract the loan. The respective local councils (e.g. Sanggunians) deliberate whether they are able to and will partake of the loan. Should the Sanggunian decide that they can meet the loan commitments, they submit an official letter of interest (LOI) to the DILG. The DILG, with assistance provided by the ODA agency, evaluates the various LOIs from different LGUs and selects which specific projects will be eligible to borrow from the ODA loan facility.

(2) Project Implementation Stage

At this point, the province/municipality with the Level III system project can now sign the loan documents with the designated local on-lending institution. For the construction of the Level III water system, the LGU itself (or the LGU company formed to undertake the project) is expected to bid out the job to contractors from the private sector. The bidding process should be a transparent one with a public announcement of the bidding,

publication of pre-qualified construction companies, and a well-documented decision by the bids and awards committee. During the construction of the Level III water system, the LGU unit tasked to monitor the construction activity should carry out periodic inspections. Final inspection is done upon completion of the construction contract. Throughout the period of the bidding process and actual construction, the DILG can be tapped by the LGU for assistance on various technical and institutional-building matters.

The private sector contractor submits its periodic billings to the LGU. After the necessary inspections are done, the LGU in turn forwards this bill to the domestic lending institution for payment. Given that all documents are in order, the domestic lending institution requests for fund remittance from the ODA agency. Once the funds are remitted, the domestic lending institution settles the bills with the private contractor.

As far as repayment of the loan is concerned, the LGU is responsible for paying the loan since it was the signatory of the loan. Through the operations of the completed Level III water system, the LGU is able to collect the corresponding tariffs from the different consumer households. From these revenues, the LGU re-pays the loan capital and interest to the domestic lending institution, which in turn remits these proceeds to the ODA loan agency. This process is repeated throughout the term of the loan.

9.4 Project Management Arrangements

9.4.1 Project Approach/Strategy

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Integration of Waterworks

The province may also initiate the establishment of an Integrated Waterworks (IWW) facility that will merge the management operations of adjoining municipalities, which have existing or proposed Level III water systems. This may not necessarily involve the integration of the physical facilities because of the distance and sparse location of municipalities, but rather only the management aspect of it. Article 8 of the IRR of NEDA Board Resolution No. 4 (Series of 1994), Clause (G) states that: "An LGU may also consider amalgamating or consolidating its system with that of its neighboring LGUs in order to benefit from economies of scale that could expand water supply services to consumers at the lowest possible cost."

The advantages of an IWW facility are as follows:

 Comprehensive water sector planning at the provincial level is facilitated. Investments in developing larger water sources and reservoirs can be considered at the planning stage (in the case of municipalities that are in close proximity with each other).

- The overhead cost involved in maintaining and operating a large waterworks system can be reduced since redundancies in equipment and manpower resources will be eliminated. Municipalities will no longer have to purchase and maintain their own waterworks construction equipment. As a result, there will be greater utilization of such equipment. Engineering and management staff that are currently needed to run the municipal waterworks system can be transferred to other functions.
- The province will be able to hire and retain professional engineering and management staff who will assume greater responsibilities and duties. This will eventually translate to a higher level of service to the communities served by the IWW facility.
- Access to loan funds (from both ODA and commercial sources) for the construction of
 the waterworks system will be easier since the lending institution will deal with a single
 entity. Lending institutions prefer such a set-up since the loan evaluation and the
 corresponding loan monitoring is simpler.
- The IWW facility will be more attractive to more reputable private sector corporations, both local and foreign. The province will be able to generate more interest from private sector players who may want to develop waterworks systems on a BOT/BO/BOO basis or jointly with the LGU. The LGU may also tap these same private sector players to operate and maintain the existing distribution network under any form of contract service, management, lease, or concession.

The organizational structure of the IWW should contain, at the least, 5 sections – Administration, Finance, Engineering, Operations & Maintenance, and a Meter Reading and Tariff Collection unit. The Administration and Finance departments will handle matters related to human resources development, financial planning and control, and other related concerns. The Engineering section is expected to concentrate on water system planning and design. The Operations & Maintenance unit will ensure that the water system is operating efficiently (e.g. minimal system losses) and that water quality is always satisfactory by conducting strict monitoring activities. Any construction activity, including the installation of water meters, will be contracted out to the private sector so there will be no need for a large pool of both equipment and manpower. Water samples can be tested in existing private or government laboratories if the IWW will not maintain its own laboratory. The Meter Reading and Tariff Collection unit will be in charge of the all-important task of determining individual household consumption and collecting the corresponding tariff due. The actual conduct of these two activities can be contracted out to the private sector through a service contract.

The financial and operating condition of the IWW facility should be reported periodically to the provincial and municipal governments. In addition, the rates that the IWW will charge consumers will be set under the supervision of a regulatory authority and any proposed changes should first be presented and discussed in a public hearing.

The success of the IWW facility depends on the full support of the local governments of both the province and the component municipalities. Such support shall be in the form of strengthening the management and engineering capabilities of the IWW staff. Any loan needed by the IWW should be endorsed, and if possible guaranteed, by the LGUs concerned. Initial capital requirements can even be sourced from these LGUs.

9.4.2 Project Implementation Arrangements

3)

Project Implementation Arrangement and Procedure

Together with the Figures (Figure 9.4.1 and 9.4.2), the following are the project implementation arrangement and procedure for Level I and sanitation from national level to barangay levels, which are designed to encourage active participation of implementers and beneficiaries in undertaking the project.

(1) National Government Level

Project Planning/Launching Workshop as start-up activity will be conducted to introduce and orient the implementers on the Project, define their roles, responsibilities and relationships among them and formulate provincial action plans. The Consultant, upon completion of the training needs assessment and development of appropriate training programs shall conduct capacity enhancement for the WSS-PMO Staff, NGOs, DPWH and DOH representatives. This activity aims to strengthen their competence in technical, managerial, training and community organizing and gender responsiveness. The trained members are responsible to facilitate the organization/reactivation of the PWSU and information dissemination for the provincial officials to secure their support and commitment to the Project. With the assistance from the Consultant, they will enhance the capacity of the PWSU, the MSLT and COs/NGOs in planning, implementing, monitoring and evaluating the project.

(2) Local Government Level

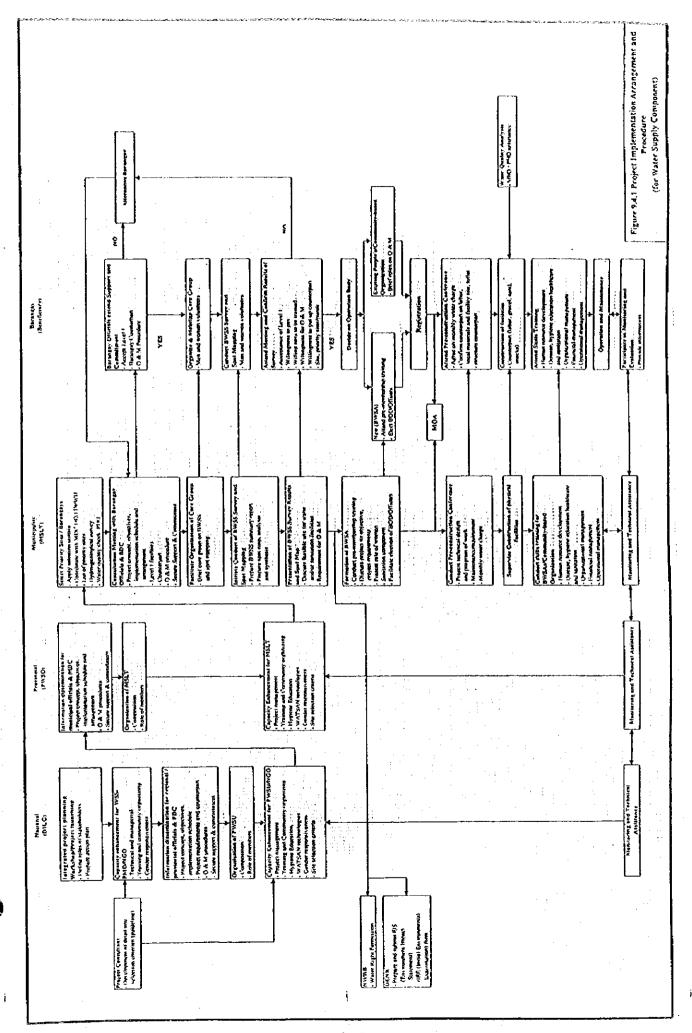
The PWSU shall assist the MSLT in each municipality and conduct information dissemination for the municipal officials to orient them on the project and obtain their support and commitment. With the PWSU assistance, the trained MSLT members shall select priority barangays, in coordination with the municipal development council. The Team will be responsible for facilitating barangay activities such as consultation meetings with barangay officials and community members, barangay survey and spot mapping,

formation of BWSA/RWSA, pre-construction conference, and supervision of construction. Skills training will be conducted for the operating body in maintaining and managing the project. They shall also provide continuing assistance and monitor the activities of the beneficiaries and status of the project.

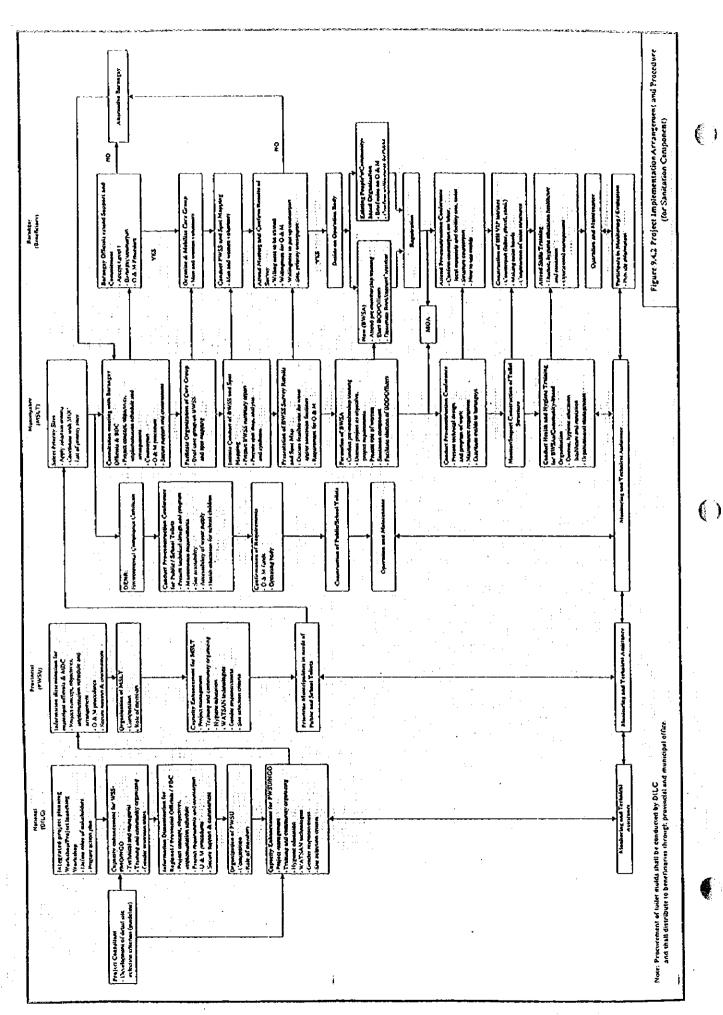
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(3) Barangay Level

The barangay officials/development councils shall provide support to the PWSU and MSLT members in conducting activities and mobilizing resources in the barangay. Men and women volunteer shall conduct barangay survey and spot mapping to confirm their demand for the level of service, HH latrines and willingness to operate and maintain the facilities and counterpart. The community members decide on the operating body, tap existing community-based organization or organize a BWSA/RWSA. They have also to agree on the monthly water fees and provide labor and local materials during the construction of facilities. The BOD/Officers, Bookkeeper and Caretaker of the operating body shall attend skills training to develop their competence in performing their jobs. The beneficiaries shall provide information and request assistance from the PWSU/MSLT members, if necessary.



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PROPOSED SITE SELECTION CRITERIA

Barangay:	Municipality:	Province:
(1). Required Ite	ms	
Item No.	Description	Score
1.	No alternative water source except ground water	OK or Not
2.	Acceptance of Level I facility	OK or Not
•		
(2) Technical &	Socio Economical Requirements 60%	
Item No.	Description	Score
1.	Water source availability (quality and quantity)	20%
2.	Incidence of water-borne disease	25%
3.	Accessibility of well drilling machine to water source	e 15%
:		
(3) Community	Interest and Involvement	40%
Item No.	Description	Score
1.	Willingness to assume responsibility for operating a maintenance of the facility/ies	nd 10%
2.	Willingness to be trained on O&M	5%
3.	Willingness to pay for water fees	15%
4.	Willingness to put up counterpart	10%
(4) Total Score		
Item No.	Description	Score
(1)	Required items	OK or Not
(2)	Physical requirements	
(3)	Community interest and involvement	
	Total Score	

Proposed Capacity Enhancement Program

Project Planning/Launching Workshop	1.	Duning Comment Of the State of
Workshop	••	Project Concept, Objective, Project Requirements, Implementation
		schedule and arrangements
DILG (WSS-PMO)	2.	Role and responsibility of national government agencies, LGUs
DPWH, DOH, NWRB		(provide and municipalities and project beneficiaries)
		Action Plan by province
	1.	Project Concept (objectives, components, requirements,
		implementation arrangement, O&M systems and procedure, etc.)
DPWH		Sector Development and existing Policies
·	3.	Project Planning, Management and Control
		Team Building Exercise
!		Presentation and Facilitating Skills
· ·		Methods of Instruction
	7.	Community Organization/Community Development
!	8.	Barangay Surveys and Spot Mapping
		Formulation of BWSA
		Health and Hygiene Education
	11.	Technical Training
		- Designing and Construction
		- Water Source Investigation
	12.	Skills Training for Operating Body
		- Organizational Management
		- Financial Management
		- Operational Management
		Gender Responsiveness
		Monitoring
	1.	Project Concept (objectives, components, requirements,
		implementation arrangement, O&M systems and procedure, etc.)
CO/NGOs)		Sector Development and existing Policies
		Project Planning, Management and Control
		Team Building Exercise
		Methods of Instruction
•		Presentation and Facilitating Skills
	1	Community Organization/Community Development Barangay Surveys and Spot Mapping
		Formulation of BWSA
		Health and Hygiene Education
	10.	Technical Training
] '''	
		 Designing and Construction of WATSAN facilities Water Source Investigation
	12	Skills Training for Operating Body
	12.	- Organizational Management
•		- Financial Management
•		- Operational Management
; 	13	Gender Responsiveness
		Monitoring
Capacity Enhancement for	· ·	Project concept (objectives, components, requirements,
	1	implementation arrangements, O&M systems and procedures, etc.)
	2.	Human Resources Development (Team Building, Leadership and
		Value Formation)
	3.	Disease, Hygiene, Education, Health Care and Sanitation (Excreta,
	1	Liquid and Solid Waste Disposal)
	4.	Organizational Management (BWSA Management Skills)
	1	Operational Management (Operation renair and maintenance chille)
	5.	Operational Management (Operation, repair and maintenance skills)
	1	Operational Management (Operation, repair and maintenance skills) Financial Management (Simplified Bookkeeping Procedures) Greater Participation of Women
	Capacity Enhancement for WSS-PMO, NGOs, DOH and DPWH Capacity Enhancement for LGUs (PWSU, MSLT, CO/NGOs) Capacity Enhancement for LGUs (POMSU, MSLT, CO/NGOs)	NEDA, DOF, OECF Capacity Enhancement for WSS-PMO, NGOs, DOH and DPWH 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. Capacity Enhancement for LGUs (PWSU, MSLT, CO/NGOs) 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 12. 13. 14. Capacity Enhancement for LGUs (PWSU, MSLT, CO/NGOs) 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 12. 13. 14. Capacity Enhancement for Operating body (BOD/Officers, Bookkeeper, Caretakers)

9 - 11

Instructions for Completing Barangay Map

This sample barangay map is a rough sketch of an entire barangay showing the households, with and without sanitation facilities. The map also shows location, type and condition of existing water facilities and plot location of proposed water sources.

- 1) The map will be used for BWSA planning
- 2) The map can be used as a planning tool to determine best locations for future water sources.

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- The map can also be used to support funding request for other water and/or sanitation facilities.
- 4) The map may also be entered into a national data base.

To make a map of your barangay, use the legend at the bottom of the sample to indicate information and landmarks. Follows these procedures when completing the map:

- 1) Indicate location of highways and road, including name and number of road if any.
- 2) Draw approximate boundaries for your barangay and indicate names of adjacent barangays
- 3) Indicate direction of north line.
- 4) Locate public building, cemeteries, schools, or other prominent landmarks.
- 5) Locate natural land features (like river, rice field, hills, etc.) and animal pens.
- 6) Show households by drawing a clear square.
- 7) Show all sanitation facilities in households by darkening bottom of square.
- 8) Show water sources location and condition by drawing a clear circle for existing water sources, a half dark circle if source is not in operation and a darkened circle for proposed facility. (Proposed facilities should be at least thirty (30) meters away from the nearest latrine and animal pen).
- Show water source type like deepwell, shallow well, spring, etc. Following legend on the map.
- 10) Next to existing facilities, write the distance in meters to the nearest latrine or animal pen. Proposed facilities should be at least 30 meters away from the nearest latrine and animal pen.
- 11) Show kilometer posts along the road by drawing a darkened small square.

BWSA Formation

A BWSA (Barangay Waterworks and Sanitation Association) is an organization of water supply and sanitation beneficiaries in a barangay whose objective is to own, operate and maintain the water systems. RA 6716 requires its formation to ensure the provision of adequate, potable and accessible water supply to its members through proper operation and

maintenance of the water facilities. The organizational structure of BWSA is quite simple and depends on the number of facilities, need, culture and situation in a particular barangay.

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The decision to tap existing community-based organization, merge/consolidate with the existing water association or to form a new association is lodged with the community members. Should the decision is to form a new association as operating body of the facilities, it shall be known as BWSA.

The formation activities of the BWSA are divided into three phases: pre-formation/social preparation, formation and post formation (refer to Proposed Community Management Program attached here for the detailed activities in each phase). During the formation phase, pre-membership training and election of BDO and Officers are held. In this phase, individual member interest and community commitment are manifested through application for membership in the association and signing of Manifesto Resolution (refer to the sample formats attached hereafter).

Proposed Community Management Program

A. Pre-Formation/Social Preparation Phase 1. Consultation with barangay officials/development councils (First Meeting) 2. Consultation with barangay officials/development councils (First Meeting) 2. Barangay Water Supply and Sanitation Survey/Sour Map 3. Barangay Water Supply and Sanitation Survey/Sour Map A core group composed of men and women volunteers will conduct BWSS and spot mapping. The BWSS results provide information on the prospective users willingness to undertake the responsibility for the O&AM are well as provision of counterpart. Spot map will identify the most feasible site for Level I water facilities, site of the varier facilities, so the transfer of the facilities. The decisions of the community members will be presented to the barangay of the community members will be presented to the barangay of the community members will be presented to the barangay of the cumular map of the community members will be presented to the barangay of the community members will be community members will be presented to the sanitation facilities; to be trained and so community members will be community members will be community members will be presented to the most feasible site of sanitation facilities; in the survey and spot map are decharance of the most feasible site of sanitation facilities. The ceasing of the survey results and spot map well as the most feasible site of sanitation facilities. The community members will be declared among that strospulosis will be given principly in the provision of varier to the water facilities in the barangay of the community members will be declared among themselves where will also decide on the operating water association. (BWSA) or merge-consolidate with existing community-based organization, form a new one (BWSA) or merge-consolidate with existing community-based organization, form a new one					
Pre-Formation/Social Preparation Phase Consultation with barangay officials/development councils (First Meeting) The activity aims to obtain the support, commitment and active participation in planning, implementation and managing the project. They are primarily responsible for the identification and managing the project. They are primarily responsible for the identification and managing the project. They are primarily responsible for the identification and parameter from them. A core group counterpart shall emanate from them. A core group composed of tren and women volunteers will conduct BWSS and spot mapping. A core group composed of tren and women volunteers will conduct BWSS and spot mapping. A core group composed of tren and women volunteers will identify the most feasible site for Level I facilities, HH latrines, school and public tollers. Presentation of survey results and spot map (Second Meeting) Presentation of survey results and spot map (Second Meeting) Presentation of survey results and spot map (Second Meeting) Presentation of survey results and spot map (Second Meeting) Presentation of survey results and spot map (Second Meeting) Presentation of survey results and spot map (Second Meeting) Presentation of survey results and spot map will be presented to the barangay officials, core group and put up counterpart such as labor, site, and local materials. The results of the survey and spot map are discussed relative to the most feasible site of sanitation facilities and busass in need of latriue. The community members will decide among therweyles which sitely water; association: (BWSA) or merge/consolidate with existing community-based organization, form a new one (BWSA) or merge/consolidate with existing water; association:		Barangay Activities	Responsible Party	Duration (Day)	Cost
Consultation with barangay officials/development councils (First Meeting) The activity aims to obtain the support, commitment and active participation in planning. The activity aims to obtain the support, commitment and active participation in planning. The activity aims to obtain the support, commitment and active participation in the content of the project. They are primarily responsible for the identification and prontication of committee project. They are primarily responsible for the identification of committee the content of the project in the provision of counterpart spill emanate from them. Barangay Water Supply and Sanitation Survey/Spot Map A cote group composed of men and women volunteers will conduct BWSS and spot mapping. The BWSS results provide information on the prospective users vill informative the responsibility for the O&M as well as provision of counterpart. Spot map will identify the most feasible surfor Level I facilities, school and public toilets. Presentation of survey results and spot map (Second Meeting) Presentation of survey results and spot map (Second Meeting) Presentation of survey results and spot map (Second Meeting) Presentation of survey results and spot map (Second Meeting) Presentation of survey results and spot map will be presented to the barangay officials, core group and propertive water users of the facilities. The decisions of the outliness will be presented to the water facilities, and houses in need of lettine. The community members will decide among themselves whose into spranday as well as the most feasible site of the water facilities, and houses in need of lettine. The community members will decide among themselves whose site provision of water and sanitation facilities and houses in need of lettine. The community members will decide among themselves whose degradation, four a new one (BWSA) or merge/consolidate with existing community members will also decide among themselves whose of partice and provision of water and sanitation facilities.		Pro Tormotion/Social Preparation Phase			
Barangay Water Supply and Smitation Survey/Spot Map A core group composed of men and women volunteers will conduct BWSS and spot mapping. The BWSS results provide information on the prospective users willingness to undertake the responsibility for the O&M as well as provision of counterpart. Spot map will identify the most feasible site for Level I facilities, HH latrines, school and public toilers. Presentation of survey results and spot map (Second Meeting) The survey results and spot map will be presented to the barangay officials, core group and prospective water users of the facilities. The decisions of the community members will be presented in the most feasible site of the water facilities, in the barangay as well as the most feasible site of sanitation facilities and houses in need of latrine. The community members will decide among themselves which sitos/purofs will be given priority in the provision of water and sanitation facilities, the community members will decide among themselves which sitos/purofs will be given priority in the provision of water and sanitation geomemiaty members will as the community water association. (BWSA) or merge/consolidate with existing water association.	र नं	clopment control rt. commitment. They are The decision from them.	CO/NGO: PWSU/MSLT; Barangay Officials Development Council	0.5	
Presentation of survey results and spot map (Second Meeting) The survey results and spot map will be presented to the barangay officials, core group and prospective water users of the facilities. The decisions of the community members will be prospective Users confirmed in terms of acceptance of Level I water facilities, site of the water facilities, to be trained and to put up counterpart such as labor, site, and local materials. The results of the survey and spot map are discussed relative to the most feasible site of the water facilities in the barangay as well as the most feasible site of samtation facilities and houses in need of latrine. The community members will decide among themselves which sitos/puroks will also decide on the operating body, whether to tap existing community-based organization, form a new one (BWSA) or merge/consolidate with existing water association.	<u> </u> 76	Bar	CO/NGO; PWSU/MSLT; Men and Women Volunteers	v,	P600
	ri	Presentation of survey results and spot map (Second The survey results and spot map will be presented prospective water users of the facilities. The decisional forms of acceptance of Level I wate willingness to contribute for water fee, operate and map are discussed relative to the most feasible site well as the most feasible site of sanitation facilities community members will decide among themselves in the provision of water and sanitation facilities. On the operating body, whether to tap existing comm (BWSA) or merge/consolidate with existing water and	CONGO; PWSUMSLT; Prospective Users	0.5	P500

			Duration	
	Barangay Activities	Responsible Party	(Dav)	Cost
w 4	Formation Phase Pre-membership Training and election of BOD and Officers (Third Meeting) A core group will be mobilized to conduct house to house campaign to ensure membership attendance in the Pre-membership Training. The training is conducted for prospective water users of the facilities. The project concept is discussed including its objectives, importance and role of BWSA and members. Other modules such as women's role, sanitation, technical aspects, success factors, etc. are discussed during the pre-membership training. The Board of Directors is elected by the general membership and the Board elects among themselves the officers of the BWSA. Bookkeeper and Caretaker are designated by the President. With the initiative of the newly elected officers, the organizational documents are accomplished.	CO/NGO; PWSU/MSLT; Prospective Water Users	1	P1,000
vi	Meeting of the Board of Directors (Fourth Meeting) The first meeting of the BOD is conducted to discuss in details the duties and responsibilities of the Board /Officers, how to conduct a meeting, formulate administrative and operational policies (collection of water fees, dates and place of regular meetings, etc.) and prepare an action plan. The registration procedures and requirements are also discussed.	CONGO; PWSUMSLT; BOD/Officers	ī	P1,000
<u> </u>	Registration The operating body (existing community organization or BWSA is registered to give it legal personality to enter into a contractual obligation)	BOD/Officers CO/NGO; PWSU/MSLT;		
r'	Pre-construction Conference (Fifth Meeting) The technical design and program of work for the construction of water and sanitation facilities are presented to the officers and members of the operating body. Based on the technical design, the financial computation to determine the operation and maintenance requirements of the facilities is discussed. The proposed estimates on monthly water fees are presented and the beneficiaries must agree among themselves the monthly water charge to be collected. The commitment of the beneficiaries to actively participate in the construction and counterpart shall be confirmed:	CONGO; PWSU/MSLT; BOD/Officers members	S	0054

9

Barangay Activities	Responsible	Duration (Day)	Cost
Construction of Water and Sanitation Facilities The operating body shall ensure that the materials delivered are all accounted for and in accordance with the approved specifications in the technical design. Labor, local materials such as gravel and sand, and snacks are provided as counterpart. The prospective users actively participate during construction and test run of water facilities. Upon completion, the facility is turned-over to the operating body. The President, in behalf of the association, shall receive the water systems from the LGUS: Simple turn-over ceremony is held witnessed by barangay officials/leaders, BOD/officers and members of the association and P/MSLT members.	CO/NGO; PWSU/MSLT; BOD/Officers members		
Skills Training (Sixth Meeting) Skills training aims to build the capacity of project beneficiaries in planning, proper operation, repair and maintenance of water and sanitation facilities. This will also create an awareness among the project beneficiaries on the importance of proper hygiene and the need to maintain a healthy environment BOD/officers will be trained on organizational management, bookkeeper on financial management/bookkeeping and caretaker on operational management (operation, maintenance and repair of wells hand-pumps, etc).	CO/NGO; PWSU/MSLT; BOD/Officers Bookkeeper/Caretaker	W	P4,400
10. Health and Hygiene Education Health and hygiene education services shall be continuously provided to the community members focusing on the interdependence of safe water supply and sanitary toilet facilities to achieve overall health and environmental benefits.	MSLT/RHW/BHW	Continuous	71.800
Monitoring, Evaluation and Technical Assistance Monitoring, Evaluation and Technical Assistance Periodic monitoring and evaluation will be conducted in partnership between MSLT and beneficiaries. M&E will start from project implementation. Technical assistance will be provided, if necessary.	PWSU/MSLT; BOD/Officers	Continuous	
TOTAL		23.5	

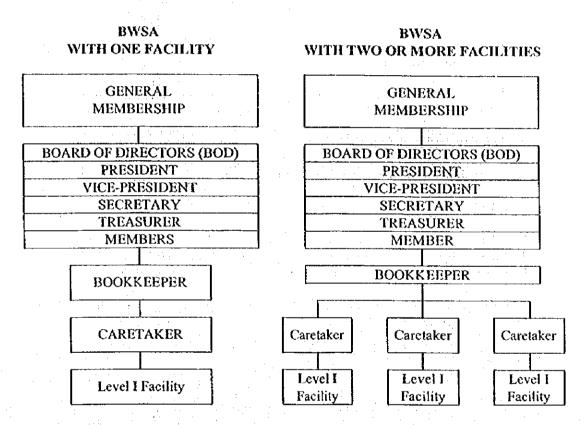


Figure 9.4.1 Organization Structure of BWSA

MANIFESTO RESOLUTION

	household heads (men or women) of Barangay	
Municipality	of, Province of the Provincial Government in putting up a Level I water system in	, seek the
assistance of	the Provincial Government in putting up a Level I water system in	our area.
Conse constitute our	cious of the attendant responsibilities in operating and maintain selves into an association in accordance with R.A. 6716 and hereby	ning the facilities, we y declare:
1.	That the name of the association shall be and Sanitation Association;	Barangay Waterworks
2.	That the association is formed primarily to own, operate an facilities and provide members with adequate supply of water for	
3.	That the association shall maintain office of Barangay	;
4.	That the following shall maintain office at Barangay	;
	President Vice-President	
	Secretary Treasurer Board Member	
5.	That membership shall be open to household heads (men or the water facilities; and	women) who shall use
6.	That this Resolution may be amended or repealed by majority the association.	vote of all members of
To e system, we b	ensure the construction, smooth operation and proper maintenance ind ourselves to the following:	ce of the water supply
1.	That we will provide a suitable site for the project;	
2.	That we will collect monthly contributions for water fees to ra maintenance and cost recovery of the system;	ise funds for the repair,
3.	That we will attend meetings and seminars conducted by association;	PWSU/MSLT for the
4.	That we will provide counterpart needed for the water facilities	s:

	5.	That we will exercise the fo	ollowing rights:	
		 a. Right to vote b. Right to hold electi c. Right to be informed d. Right to use the ass 	ed of the association's affairs	
	6.	That we will hold an ann association's business and t	ual meeting every to elect officers for one year.	, to discuss the
NOV 19	V, THER	EFORE, we hereunto set our	r hands this	day of,
	PRINT	ED NAME	SIGNATURE	CTN
1. 2.				
3.				
4.				
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		(Name of BW	/SA)	
	_	(Barangay, Mun	icpality)	
	-	(Province	e)	
The Board of		NV .	Date	
nd Sanitation	Association	Waterworks		
Gentlemen:				
Sanit pledg		avail of its services and comply with the r		Barangay Waterworks and ble water for domestic use. I as, which may be promulgated
I her	eby further pledge to):		
1. 2.				Board of Directors/Officers; VSU/MSLT for BWSA
3.	Pay monthly wat recovery of the f	acilities as may be pre	escribed by the Bo	
4.	required by the A	Association;	•	tenance of facilities as
5.	snacks, and			ng labor, local materials and
6.	Help attain the o	bjectives of the Assoc	ciation.	
For info page.	rmation about mysel	f and my household,	please refer to my	information sheet at the back
				Signature of Applicant Over Name in Print
		to the first of		Dight Thumbmark

BWSA Member Information Sheet

Name of Prospective M	ember:		
Age:	Civil Status:		Sex:
Place of Birth:		1	Date of Birth:
Household Members (in	elude household help):		
Name		Age	Relation to Member
: : : : : : : : : : : : : : : : : : :			
Present Water Source us	sed by Household (Please Ci	neck):	
		Artesian Well	
Others		Spring	
Present Expenses for W	ater per Month		
Distance of Water Source	ce to the House		meters
I hereby certify that the	information above are true a	nd correct to the best	of my knowledge.
Sig	nature		Date

Duties and Responsibilities of BOD/Officers and Members

The management of the BWSA rests on the Board of Directors/Officers who are elected by the general membership. The Board elects from among themselves the Officers of the association: President, Vice-President, Treasurer and Sceretary. The President designates the Bookkeeper and Caretaker of the BWSA. The duties and responsibilities of the Board/Officers, Bookkeeper and Caretakers are shown below.

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(1) Duties and responsibilities of the Board of Directors

- Oversee the activities of the BWSA
- · Formulate policies and procedures to carry out the affairs of the BWSA
- Elect the BWSA officers
- Attend all meetings of the Board and the General Assembly
- Attend training for BOD/Officers conducted by PWSU/MSLT

(2) Duties and responsibilities of the President

- Conduct/Preside over all meetings of the General Assembly and BOD meetings
- Execute policies relative to the management of the Association and the maintenance of the water facility
- · Act as arbitrator in settling conflicts among members regarding BWSA operations
- Represent the Association in any activity involving BWSA operations
- Investigate the current condition of the Association and recommend measures for its improvement or solutions to its problems
- Perform such other duties as may be assigned by the Board of Directors

(3) Duties and responsibilities of the Vice-President

In the event of death, incapacity or refusal of the President to perform higher duties and responsibilities, the Vice-President shall assume the Presidency. He shall perform the duties of the President and such other duties as may be assigned by the BOD.

(4) Duties and responsibilities of the Secretary

- Attend all meetings and record the minutes
- Call meetings in the absence of the President and the Vice-President and preside until a temporary presiding officer is chosen
- Prepare and send notice to all Association meetings
- Keep all papers/documents pertinent to the Association
- Perform such other duties as may be assigned by the Board of Directors

- (5) Duties and responsibilities of the Treasurer
 - Attend all meetings of the Board and the General Assembly
 - Take proper custody of all funds and properties of the Association
 - Ensure the proper issuance of official receipts for money received by the Association
 - Ensure that all expenses are authorized by the Board and covered by official receipts
 - Deposit all funds of the Association in a bank designated by the Board; and
 - Produce periodic reports and account reconciliation as prescribed
 - Perform such other duties as may be assigned by the Board of Directors
- (6) Duties and responsibilities of Bookkeeper
 - · Keep the financial records of the Association;
 - Collect water fee contributions from and issue receipts to user members;
 - Remit collected water contributions to the BWSA treasurer;
 - Submit a quarterly financial status report to the Board of Directors or as often as the Board may require;
 - Attend BOD meetings and BWSA training/activities conducted by the PWSU/MSLT
 - Perform such other duties as may be assigned by the Board of Directors
- (7) Duties and responsibilities of Caretaker
 - Remind the members of the proper use of the facility
 - · Ensure that the water facility is in good operating condition
 - Keep the record of the operation and maintenance of the water facility
 - · Report to the Board of Directors (BOD) any damage or repair needs of the facility
 - Perform minor repairs of the water facility
 - Assist in the collection of water fee contributions
 - Attend meetings of the Board as may be required
 - Attend skills training on operation and maintenance conducted by the PWSU/MSLT
 - · Perform such other duties as may be assigned by the Board of Directors
- (8) Duties and responsibilities of Members
 - · Pay monthly water fee contribution;
 - Attend meetings and training activities designed for members;
 - Observe rules and regulations and policies approved by the BOD/Officers;
 - Remind other water users to use the facility properly;
 - Keep the premises of the water facility clean, sanitary and free from excess water which
 may cause contamination of the water source; and
 - Adopt proper health and sanitation practices.

Procedures for BWSA Financial Operations

Bookkeeping records an organization's financial transactions involving the receipt and expenditure of money in an organization. The organization may be a small business or large corporation. It may be government or a non-government organization. Regardless of the size of the organization, it provides a standard method for recording and reporting financial transactions of all kinds. The information obtained from accurate and timely bookkeeping provides timely information on the financial health of the operation.

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The information contained herein will enable the BWSA bookkeepers to record financial transactions and prepare financial reports. The manual presents the overall picture, through the General Accounting Plan procedures. A step-by-step guide follows the General Accounting Plan through all the transactions, entries and reports. Each transactions, entry and report has a corresponding form. Each form is presented with explanations on its function and how it relates to the other forms. Instructions are provided line-by-line for a clear understanding.

(1) BWSA Business Operation

The BWSA business operation is simple. Funds are generated through water fees. Although there may be other sources of income, user fees will be the main source of income. Money is spent to maintain the barangay water system and other properties owned by the association. Other funds spent include expenses for administration, parts and supplies.

With only a few sources of income and expenses, financial transaction entries can be made quickly as they occur. If transactions pile up, even a simple operation can become very complicated. It is recommended that all transactions be recorded daily. If this is done regularly, periodic reports can be prepared quickly and accurately.

(2) Maintenance and Custody of Documents and Records

Safekeeping the books of accounts, related records, accounting forms and reports is a major responsibility of the bookkeeper. Accounting forms used as the basis for recording should be arranged and filed separately in sequence. All records and documents should be locked up and access should be limited to authorized BWSA officers and personnel.

The BWSA officers should agree on the reports to be prepared, who receives the reports and how frequently. It is recommended that certain records be maintained and certain reports be complied. It is up to the BWSA officers to determine how often these reports are to be made and if

additional reports are necessary. Some larger BWSAs may need monthly reports. Smaller BWSAs may only require quarterly reports.

(3) General Accounting Plan (GAP)

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The flow of accounting and reporting is shown in the General Accounting Plan, Figure 1. The GAP will guide users through this section as each procedure is explained. The GAP contains four columns of boxes. Columns are headed:

- Transactions consisting of cash and non-cash transactions
- · Document for recording different types of financial transactions
- Books to maintain a record of financial transactions
- Reports to summarize all financial transactions for given period.

(4) Transaction Defined

The BWSA financial transactions are classified as:

- · Cash Transactions
 - Cash-In (cash receipts)
 - Cash Out (cash disbursements)
- · Non-Cash Transactions

Money, incoming and outgoing, is classified as cash transactions. The GAP shows two kinds of cash transactions, cash-in (cash receipts) and cash-out (disbursement). There are also non-cash transactions, which document money owed to the BWSA or money that the BWSA owes.

1) Documents for Cash Transactions

The Official Receipt (OR), (See Figure 2) and the Voucher (See Figure 3) are the source documents for cash transactions. ORs and vouchers are called source document because they initiate the bookkeeping process.

Each time a person gives money or its equivalent to the BWSA, an OR is issued to the person. Each time the BWSA pays money to a person, a voucher is completed to show that it is an authorized expenditure. The voucher also records to whom the money was given and for what purpose.

Both the OR and voucher are numbered and all numbered documents should be accountedfor. This means that if an OR or a voucher has been incorrectly filled out, it must be kept for the record.

- a) The OR records all money received by the BWSA and must specify:
 - The date funds are actually received
 - The name and address of the person paying the money
 - The amount received, both in words and in figures
 - An explanation or purpose of the payment
 - Confirmation of receipt as shown by the authorized collector's signature, usually the bookkeeper
 - The billing form number, if money is for payment of water fees
- b) The voucher records all money paid out by the BWSA. Each numbered voucher must specify:
 - The date money is actually paid
 - · The name and address of the person receiving the money
 - The total amount of money paid, is words and in figures
 - Details of payment, including invoice number
 - Signature of person authorized to approve payment
 - Confirmation of receipt as shown by the authorized collector's signature, usually the bookkeeper, of the person paying money
 - Signature of person receiving the money and date received

2) Document for Non-Cash Transactions

The sources for recording non-cash transactions are the billing form and the invoices. The billing form documents money that is owed to the BWSA. Invoices or statements of account are documents made by others showing money owed by the BWSA. These are transactions, which do not involve cash collection or payments, and therefore, are not to be recorded in the Cash Record Book.

- a) The Billing Form (See Figure 4) is used to notify water consumers of the fees owed to the BWSA covering a certain billing period. Billing forms may be made monthly or quarterly as the Association decides. Billing forms must specify:
 - · List of services rendered
 - The name and address of the person being billed
 - Period covered by this bill, beginning and ending dates

- The total amount of money owed
- Date of billing
- Date the bill should be paid
- Official signature, usually the bookkeeper

Unaccounted Water Fees are examples of non-cash transactions which should be recorded in the Receivable Book.

- b) The Invoice or Statement of Account (See Figure 5) is a document prepared by the seller and presented to the BWSA showing money owed to the seller by the BWSA. Invoices usually contain:
 - An invoice number
 - The person or company sending the invoice
 - · The name of the BWSA that owes the money
 - Particulars of goods or service provided
 - The breakdown of money owed and total amount due
 - A payment due date
 - Name or signature of the person requesting payment

Unpaid invoices on repair and maintenance and other unpaid expenses, such as honoraria are recorded in the Payable Book.

(5) Book of Accounts

The book of accounts are basic records used to record all financial transactions. Three books of accounts are maintained as described below.

1) Cash Record Book

The Cash Record Book is used to record all cash incoming and out-going transactions. The OR is recorded in the Credit column (Money Received). The voucher is recorded in the Debit Column (Money Disbursed). All entries are recorded by date, including all cancelled forms, properly noted. After each credit or debit entry, the amount is added or subtracted from the Daily Balance. At the end of the month, the entries form the bases for preparing the Statement of Operation and the Cash Position Statement.

2) Receivable Book

Unaccounted accounts from the members and outside parties are recorded in the Receivable Book (See Figure 7). This book shows the transaction date, the billing number, household head, the amount and explanation or remarks about the nature/condition of the account.

3) Payable Book

Unpaid accounts on the expenses incurred by the BWSA such as salaries or wages, repair and maintenance and other expenses are recorded in the Payable Book (See Figure 8). This book shows the transaction date, the payee, the nature/explanation of the unpaid account and the amount.

(6) Financial Reports

The BWSA reports are usually prepared monthly or quarterly. The financial reports are prepared to inform the BWSA financial members of the Association's financial status. In preparing the BWSA financial reports, the bookkeeper reviews all source documents supporting the transaction to countercheck the amount appearing in the books. The recorded transactions should be summarized and arranged chronologically to produce a report easily understood by BWSA officers and members.

1) Statement of Operations

The statement of Operations (See Figure 9) is prepared monthly to record the income and expenses incurred by the Association in its operation during the period. The statement shows the revenues earned, the operating expenses incurred and the income or loss as a result of operation.

2) Cash Position Statement

The sources of information when preparing the Cash Position Statement (See Figure 10) are the cash record books and the statement of operations. The report is prepared to determine if the Association can cover its operating expenses. This statement shows the beginning cash balance, the cash receipts for the period, the cash disbursement, and the cash balance ending for the period.

3) Financial Summary Report (Annual Report)

The financial Summary Report (See Figure 11) is prepared to summarize the periodic reports prepared during the year and the supporting schedules.

(7) Bookkeeping Procedures

A step-by-step review of all BWSA transactions can be accomplished by following the accounting entries and reports.

FINANCIAL SUMMARY REPORT Figure B-11 STATEMENT OF OPERATIONS Figure B-9 CASH POSITION STATEMENT Figure B-10 REPORTS BOOKS CASH RECORD BOOK Figure B-6 RECEIVABLE BOOK (Figure B-1) PAYABLE BOOK Figure B-8 FIGURE 1 DOCUMENTS CASH PAYMENT VOUCHER STATEMENT OF ACCOUNT (INVOICE) (Figure B-5) OFFICIAL RECEIPT Figure B-2 BILLINGS FORMS Figure B-4 Figure B-3 TRANSACTONS CASH-DISBURSEMENT) CASH-IN (CASH RECEIPTS) NON-CASH TRANSACTIONS

9

GENERAL ACCOUNTING PLAN (GAP)

FOR BWSA TRANSACTIONS

OFFICIAL I BWSA	RECEIPT			OR. NO. Date:	:
Rece	ived from			: ·	
he sum of			:	(P)
n payment o					
Billing Form	#		(For paym	ent of water fees only).	
		:			
		•			
:		· · · · · · · · · · · · · · · · · · ·			
					er/Collector okkeeper)
		1 .		0 0	1 × 1 × 1 × 1

Complete Official Receipt in Triplicate

Official Receipt must be issued for all payments received by the Bookkeeper.

FIGURE 2

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CASH PAYMENT	CPV No.
VOUCHER	Date:
Paid to :	
Address :	
In the sum of:	(P
PARTICULARS	AMOUNT
	12.00(1)
· · · · · · · · · · · · · · · · · · ·	
Approved By:	Received from
	The amount of
	As payment for the above described.
	Received By
	Date Received
	VOUCHER

Each time a disbursement is made, a cash payment voucher must be prepared to support such disbursement.

		Name	c of BWSA	No. 30 milatina de laspiña, compresante para esta esta esta esta esta esta esta est	
***************************************		Barangay	, Municipali	ty	
		Pr	ovince		
		BILL	ING FOR	M	
			for		•
		WATER C	ONSUMPT	NOT	
63.4			•		,
Name of Mem	iber			· · · · · · · · · · · · · · · · · · ·	
Address:		:			
				No	······································
	PEJ	RIOD COVER	ŒD		
FRO	M		TO	1	AMOUNT
MONTH	DAY	MONTH	DAY	YEAR	
		 		 	
		 		-	
		 	:	1	
Date of Billin	ng:		Please pa	y On or Before	:
		e Office on or		y On or Before	
		e Office on o			
		e Office on o			
Date of Billin		e Office on o		date shown ab	

Billing must be prepared and sent to all BWSA members for their monthly dues as their monthly obligation to the Association.

FIGURE 4

(1)

Date:	
Invoice #	

INVOICE

Sold to:

ITEM	NO.	UNIT PRICE	PRICE
:			
·			
TOTAL			P

Received By:		1	
(Print Name below Signature)	:		

BWSA	
CASH	RECORD BOOK
COLLECT	ION/DISBURSEMENT
Month:	Year:

DATE	PARTICULARS	CREDIT (Money Received)	DEBIT (Money Disbursed)	DAYLY BALANCE
·				
				·
			·	

This book records all cash transactions (collection/disbursements) made by the BWSA, and calculates a daily balance.

Na	me of BWSA
:	
Barang	gay, Municipality
	Province

RECEIVABLE BOOK

DATE	BILLING FORM NO.	HOUSEHOLD HEAD (Family Name)	AMOUNT DUE	REMARKS
÷				1
,		·		
	1			
		1		
·				
	;			
				Ì
1. 1.				
				14.5
<u> </u>	<u> </u>		•	

This form records all accounts due to the Association

BWSA	and the state of t
	Barangay, Municipality
	Province

PAYABLE BOOK

DATE	INVOICE NO. AND DATE	CREDITOR	EXPLANATION	AMOUNT DUE	VOUCHER NO. DATE PAID
					,
; ;					
·					;
	٠				
			. P		
:					

This form records all incoming invoices that have not been paid by the Association.

	Name of BWSA	·
	Barangay, Municipality	
	Province	
	STATEMENT OF OPERATIONS For the Month,	
Revenues:		
	Water Fees Others (Specify)	₽
	Total Revenues	В
Operating Expe	Salaries Supplies Repair and Maintenance Others (Specify)	P
	Total Operating Expenses	P .
Net Income/Lo		<u> </u>
Prepared By:		Date Prepared:
Certified true a	nd correct:	Date Certified:
BWSA	Treasurer	

Note: Print Name below signature

At the end of each month, the bookkeeper prepares the Statement of Operations for the previous month.

	Name of BWSA		
	Barangay, Municipality		
	Province		
CAS For the	H POSITION STATEMENT		
Revenues:			
Water Fees Contribution Others (Specify)		Þ.	
Total Revenues		<u>p</u>	
Less: Operating Expenses:			
Salaries		4	
Supplies Repair and Maintenan	ice		
Others (Specify)		7	
Total Operating Expen	nses	P _	
Cash Balance, During the Period Add: Cash Balance, Beginning Cash Balance, Ending		4 - 4	
Cash Datance, Enoing		₽ -	
Prepared By:		Date	Prepared:
BWSA Bookkeeper		<u></u>	

Note: Print Name below signature

Cash Position Statement summarizes the Association's transactions for the month ended. The Bookkeeper fills up this form every end of the month.

	Name of B	TUA	
€ *na shap	Barangay, Mun	icipality	
	Province)	
F	INANCIAL SUMMA Year End	ARY REPORT	
Financial Results			
1. Total Revenues		p	
2. Total Expenditures		<u>p</u>	
3. Total Cash on Hand		p	
4. Total Cash in Bank		P	
5. Total Accounts Recei	vable	p	:
6. Total Accounts Payal	ole	₽	
Findings/Recommendatio	ns:		
Prepared By:		Date	Prepared:
BWSA Bookkeeper			
Note: Print Name below:	riam ntura		

FIGURE 11

)

Table 9.4.1 Format for Level I Project Data

			Form	
	·		EL LPROJECT DATA	
	Notice: This form sha	ill be accor	mplished upon instruction of PST/PWSD	!
LOCATION	1.1 Barangay/Sitio		1.3 Province	
LOCA	1.2 Municipality		1.4 Region	
ATA	2.1 Total Community/Barangay Population		2.3 Proposed Population to be Served	·
INFORMATION ON THE WELL SITE POP. DATA	2.2 Total Number of Households		2.4 Proposed Number of Households to be Served	
	3.1 Ownership : Public	Private	3.3 Location:	
	3.2 Description:		3.4 Donor (if Private Lot):	- :
(Use separate sheets if necessary)	4.1 Type of Point Source: Deep Welt Shallow Well	Casing	ells: g diameter in. 01 m g depth ft. 01 m tevel Well ft. 01 m.	
	Spring	4.4 For Sp	rapacity/yieldgpm. orlps. prings : Capacity/yieldgpm. orlps. px. elevation above or below	-
	Others (dug well pond) 4.2 Ownership: Public	Locati Appro	Inside of service area Outside of service area oximate distance from center	
.	Private	Prepared t	by;	
			Municipal Liason Staff Date	

Table 9.4.2 Format for Level II Feasibility Study

			Barangay		Form Municipality	
					interior into	
	FEASIBILITY STUDY (Level II)					
	Notice: This form shall be accomplished upon instruc	Province		Region		
		PROIFC	T SUMMARY			
₹	1. Present Population	- CONDUMENT	3. Number	ablodsevoll lo		
POPULATION DATA				6. Number of Fauceis		
ğ	Į.			o. Number	of Faucets	
۲.	4. Type of Source Spring	5. Type of System Gravity Pumped				
TECHNICAL DATA	Well Surface Water	7. Pump Horsepower HP		8. Pumping Time Hours per Day		
TEC	9. Total Average Daily DemandLitersLiters	10. Storage Tank Capa		11. Pump Discharge CapacityLPS		
	12. Total System Cost	13. Maximum Loan Ar P		14. Interest Rate		
AL DATA	15. Local Equity	16. Funding Cost per l	iouschald	17. Repayment Period (months)		
FINANCIAL DATA	18. Type of Local Equity Cash Labor Materials Others					
	19. Total Monthly Expenses	20. Monthly Fee Per l	lousehold			
ANNEXES	1 Survey Form 2 Map of the Project Area 3 Design Criteria and Basic Design Data 4 Schematic Diagram of the System	6 Design of Reservoir (G. and Pump 9B Fi 7 Detailed Design Plan 10 Bi		Fittings Schedule 12 Financial Analysis 3.1 Pipes) 13 Availability of Local Fittings Schedule Equity Sill of Materials Cost Surumary		
Prepared by: Endorsed by:						
	Municipal Liason Staff	Date	PST/PWSO C	Coordinator	Date	

Annex 1

SURVEY FORM Rural Water Supply Project

	Rur	al Wate	er Supply Project		:
A. LOCATIO					·
	Barangay :				
	Municipality :		Province		
			Region Number	1	!
B. GENERA	L INFORMATION				
			÷		
	l. Population				
	2. Number of households				
	3. Distance from poblacion			kilometers	
	4. Availability of electricity		Yes 🔲	No 🗌	
	5. Distance from electric line		1	kilometers	
	5. Power cost per kilowatt hour	P			· · ·
	Availability of public				
	transportation Main livelihood of residents				1
•	3. Main livelihood of residents		Land transport		
	닏		Water transport		
	님		Farming	res	
	\vdash		Industry	U Others	
C. TECHNIC	AL INFORMATION	. :	Fishing		
		. :			
1	Are there reliable sources of potable	water?			
	Yes		No		•
	a) For Wells				
+	Well capacity :		lps		
	Casing diameter :_	·			
	Casing depth :_				
	Water level from top of we	u :_			
	Location :		Within service a	168	
			Outside	M. from service area	
					•
	b) For Springs				
	Average dry season flow		:	☐ GPM ☐ LPS	
	Relative elevation of sprin	ıg			
÷	a.	_ [ft.	m. above service area	
	b.		ft.	m. below service area	
	Location:		Within service are	ta	•
		 -1			
		ĻJ	Outside	m. from service area	
	e e e e e e e e e e e e e e e e e e e				

(

For pumps: Type:		L,	donated for	vater supply t this project	more omer 2	ials and equipmo ource? D-Yes	ent (pumps	, pipes, fittings) which can be
Others, specify 3. Is there an existing water tank that can be used? Yes No Type: Steel Reinforced Concrete Capacity: Gallons Cubic Meters Location: (Please indicate in the map of the project area) Relative elevation with respect to service area R. m. 4. Are there other sites where water tanks may be erected? Yes No Location: (please indicate in the map of the project area) Relative elevation with respect to service area ft. m. 5. Does the barangay have skilled personnel? Yes No If yes, how many? Estimated Number Plumbers Masons Carpenters Others If no, are there competent contractors near the area? Plumbing contractor Yes No Tank fabricator Yes No Are there suppliers of materials (pumps, pipes, fittings) in the municipality?)		For pumps	: Туре	:	Power:		HP	
Type: Steel			For pipes	:				D PVC	
Capacity: Gallons Cubic Meters Location: (Please indicate in the map of the project area) Relative elevation with respect to service area ft m. 4. Are there other sites where water tanks may be erected? Yes No Location: (please indicate in the map of the project area) Relative elevation with respect to service area ft m. 5. Does the barangay have skilled personnel? Yes No If yes, how many?		3.	Is there an	existing wate	er tank that c	n be used?		☐ Yes	□№
Location: (Please indicate in the map of the project area) Relative elevation with respect to service area			Type:	□ Steel		☐ Reinford	ed Concre	te	
Relative elevation with respect to service area			Capacity:	~ · ~ ~		☐ Gallons		Cubic Me	eters
4. Are there other sites where water tanks may be erected?			Location:	(Please inc	dicate in the r	nap of the projec	t area)		
Location: (please indicate in the map of the project area) Relative elevation with respect to service area			Relative ele	evation with	respect to ser	vice area		ñ	☐ m.
5. Does the barangay have skilled personnel? If yes, how many? Estimated Number Plumbers Masons Carpenters Others If no, are there competent contractors near the area? Plumbing contractor:		4.	Are there of Location:					☐ Yes	□No
If yes, how many? Estimated Number Plumbers :			Relative ele	vation with	respect to ser	vice area		ft) m.
Plumbers Masons Carpenters Others If no, are there competent contractors near the area? Plumbing contractor: Yes No Tank fabricator: Yes No Are there suppliers of materials (pumps, pipes, fittings) in the municipality?		5.	Does the bar	rangay have	skilled perso	nnel?		☐ Yes	□ No
Masons Carpenters Others If no, are there competent contractors near the area? Plumbing contractor: Yes No Tank fabricator: Yes No Are there suppliers of materials (pumps, pipes, fittings) in the municipality?			If yes, how	v many?	Estin	nated Number			
Others If no, are there competent contractors near the area? Plumbing contractor: Yes No Tank fabricator: Yes No Are there suppliers of materials (pumps, pipes, fittings) in the municipality?				Masons	:				· .
Plumbing contractor: Yes No Tank fabricator: Yes No Are there suppliers of materials (pumps, pipes, fittings) in the municipality?					;				:
Plumbing contractor: Yes No Tank fabricator: Yes No Are there suppliers of materials (pumps, pipes, fittings) in the municipality?			If no are t	here compate	ant contract-				
Tank fabricator : Yes No Are there suppliers of materials (pumps, pipes, fittings) in the municipality?			22 110, 410 1						
Are there suppliers of materials (pumps, pipes, fittings) in the municipality? [Yes No									
	:		Are there su	ppliers of ma	aterials (pum	ps, pipes, fittings] No) in the mu	nicipality?	

D. FINANCIAL INFORMATION

1.	What can the barangay provide a	s local equity?
	Cash :	p
	Labor :	man-days
	Materials:	Sand : cu, m.
	•	Gravel : cu, m.
		Others, specify:
2.	Have the people been informed of	of the current financing policies for Level II systems, particularly
	the monthly fees required to repa	sy loan & provide for O & M?
	·	
		Yes No
3.	How much are the people willing	g to pay per household per month as a water fee?
	Below P 6.00	P 10.00 - 15.00 Others
	₽ 6.00 - 10.00	
	10.00	15.00 - 20.00 L.J Specify:
4.	Average income per household	per month
		- Principal
E. INST	TITUTIONAL INFORMATION	
1.	Is there an existing association w	ho is ready, willing and able to manage the system
	☐ Yes	□ No
	If yes, please specify.	
2.	Are people willing to join a water	r association to operate and manage a
	water supply system?	☐ Yes ☐ No
3.	How many households are willing	ng to be members? households,
		uousenoids,
4.	Name at least three (3) leaders of	f the community who can act as officers of the association,
	if required.	and community who can det as directs of the association,
	Name	
	Tunc	Address

()

F. MAP OF THE AREA

Please attach map of the area proposed to be served. Indicate location of houses, buildings and other structures to be served including roads, the water source(s) and possible locations of storage tanks. The map should preferably be drawn to scale.

Important: If map cannot be drawn to scale, indicate distance measurements between important points along roads, or possible routes of distribution pipes with households properly indicated. For rolling terrain, indicate elevation differences between measurement points.

G. REMARKS: