8.5.2 Sanitation

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

		Z	No. of House	of Household Served	T.				Phase I	Phase I Coverage (2005)	2005)			
Name			in the Ba	in the Based Year							`			
Municipality/City	Area		Pour			Total No.		Household Coverage	Coverage		Additio	nal No. of	Additional No. of HHs to be Served	Served
		Flush	Flush	VIP/Dry	Totaí	of HHs	Flush	Pour Flush	VIP/Dry	Total	Flush	Pour Flush	VIP/Dry	Total
	Urban	362	3,709	1,417	5,488	6,702	362	3,709	1,417	5,488				
Bago City	Rural	25	11,101	6,833	17,959	22,930	216	13,758	3,669	18,344	385			385
	Total	387	14,810	8,250	23,447	29,632	1,279	17,467	5,086	23.832	385			385
	Urban	455	1,740	1,287	3,482	5,091	1,018	2,851	204	4,073	563	28.		591
Binalbagan	Rural	155	1,354	2,373	3,882	6,367	255	3,821	1,018	5,094	100	1,112		1,212
	Total	019			7,364	11,458	1,273	6.672	1,222	9,167	663	1,140		1.803
	Urban	1,480	1,314		5,287	7.605	1,521	4259	304	6.084	41	756		797
Cadiz City	Rura)	2,548			10,704	19,636	2,548	11.782	1,379	15,709		5,005		5,005
	Total	4,028	5,934	6,029	15,991	27,241	4,069	16,041	1,683	21.793	41	5,761		5.802
	Urban	98	1,131	677	1,894	2,574	515	1,441	103	2,059	165			165
Calatrava	Rural	18	2,421		8,633	12,211	488	7,327	1,954	9,769	470	999		1,136
	Total	104	3,552	6,871	10,527	14,785	1,003	8,768	2,057	11.828	635	999		1.301
	Urban		250		429	553	111	309	22	747	13			13
Candoni	Rural		252	1,552	2,104	2,817	113	1,69,1	055	2,254	113	37		150
:	Total		802	1,731	2,533	3,370	224	2,000	472	2.696	126	37		163
	Urban	86	2,057	1,371	3,514	4,542	606	2,544	181	3.634	120			120
Cauayan	Rural	148	5,639		6,592	12,493	200	7.496		9,994	352	50		402
	Total	234	969'L	5,176	13,106	17,035	1,409	10,040	2,179	13,628	472	50		522
	Urban	6	2,214		3,595	6.745	1,349	3,777	0.42	5,396	1,340	461		1,801
Enrique B. Magalona	Rural		1,542	1,488	3.030	5.889	236	3,533	256	4,711	236	1,445		1,681
		6 .	3,756		6,625	12,634	1.585	7,310	1,212	10,107	1,576	1,906		3,482
	Urban	05	2,364	3,965	6,379	8,292	1,659	4,644	331	6,634	255			255
Escalante	Rural		2,269		7,404	10,744	430	6,446		8,595	430	192		1,191
	Total	90	4,633	6	13,783	19,036	2.089	11,090	7	15,229	685	761		1.446
	Urban	175	3,155		4.078	6.094	1,219	3,413	243	4,875	797			797
Himamaylan	Rural	261	3,476		6,549	10,072	403	6,044	1.611	8,058	142	1.367		1,509
	Total	436	6,631	3	10,627	16,166	1,622	9,457	1.854	12,933	939	1,367		2,306
	Urban	348	745	120	1,813	2.518	504	1,410	100	2,014	156	45		201
Hinigaran	Rural	820	3,527		8,292	11,893	850	7,136	1,528	9,514		1,222		1,222
	Total	1.198		•	10,105	14,411	1.354	8,546	1,628	11.528	156	1,267		1,423
	Urban	8	1,504		2,761	3,158	8	1,504		2,761				
Hinoba-an (Asia)	Rural	7	2,943	:	4.052	4,648	7	2,043		4.052				
	Total	15	3,547	3,251	6.813	7.806	15	3,547	3,251	6,813				
	Urban		4,382		4,382	5,156		4,382		4.382				
Soll	Rura		2,676		2,676	3,227		2.676		2,676				
	Total		7,058		7.058	8,383		7,058		7.058				

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

		Z	No. of House	of Household Served	þ				Phase I	Phase I Coverage (2005)	2005)			
No me of			in the Ba	n the Based Year										
Municipality/City	Area		Pour			Total No.	_	Household Coverage	Coverage		Additio	nal No. of	Additional No. of HHs to be Served	Served
		Flush	Flush	VIP/Dry	Total	of HHs	Flush	Pour Flush	VIP/Dry	Total	Flush	Pour Flush	VIP/Dry	Total
	Urban	129	1.746	1.6	1,972	2,332	129	1,746	26	1.972				
Isabela	Rural	\$3	5,448	295	5,808	7,955	318	6.046		6,364	253	303		556
	Total	194	7,194	392	7,780	10,287	447	7,792	26	8,336	253	303		556
	Urban	281	2,384	5,925	8,590	10,374	281	2,384	5,925	8,590				
Kabankalan City	Rural	64	4,649	9,575	14,288	20,153	908	12,092	3,224	16,122	742	1,092		1,834
•	Total	345	7,033	15,500	22.878	30,527	1,087	14,476	9,149	24,712	742	1,092		1.834
***************************************	Urban	944	3.413	65	3,921	4,267	449	3,413	65	3,921				
La Carlota City	Rural	17	4,987	157	5.215	6,413	71	4.987	157	5,215				
•	Total	520	8,400	216	9,136	10,680	520	8,400	216	9,136				
	Urban	180	1,652	1,133	2,885	4,723	945	2,645	188	3,778	845	48		893
La Castellana	Rural	9	2,577	2.851	5,434	9,329	373	5.597	1,493	7,463	367	1,662		2,029
	Total	8	4,229	3,984	8,319	14,052	1,318	8,242	1,681	11,241	1,212	1.710		2,922
	Urban	143	776	334	1,253	2,098	420	1,175	83	1,678	27.7	148		425
Manapia	Rura	184	2,313	1,969	4,763	8,053	481	4,832	1,129	6,442		1,679		1,679
	Total	624	3.089	2,303	6,016	10,151	106	6,007	1,212	8,120	277	1,827		2,104
	Urban	61	855	541	1,415	2,208	442	1,236	88	1,766	351			351
Moises Padilla	Rura		1,022	1,558	2,580	4,161	166	2,497	999	3,329	166	583		749
-	Total	61	1,877	2,099	3,995	698'9	809	3,733	754	5.095	212	583		1,100
	Urban	\$	1,201	1,011	2,296	3,946	789	2,210	158	3,157	705	156		861
Murcia	Rura	74	2,619	2,253	4,946	8,843	354	5,306	1,414	7.074	280	1,848		2,128
-	Total	158	3,820	3,264	7,242	12,789	1,143	7,516	1,572	10,231	586	2,004		2.989
	Urban	93	2,471	475	3,039	4,162	833	2,497		3,330	167			291
Pontevedra	Rural	22	2,332	1.101	3,455	5,133	205	3,080	821	4,106	183	468		651
	Total	115	4,803	1,576	6,494	9,295	1,038	5,577	821	7,436	474	468		942
	Urban	30	845	1.681	2.556	3.517	704	1,970		2,814	258			258
Pulupandan	Rural	33	820	206	1.755	2,239	90	1,343		1,791	36			36
	Total	63	1,665	2,583	4,311	5,756	794	3,313	498	4,605	294			294
	Urban	1,582	2,455	4,381	8.418	11,434	2.287	6,403		9,147	705	24		729
Sagay City	Rural	929	3,146	058'6	13,616	21,134	845	12,680	3,382	16,907	225	3,066		3,291
	Total	2,202	5,601	14,231	22,034	32,568	3,132	19,083	3.839	26,054	930	3,090		4,020
	Urban													
Salvador Benedicto	Rural		2,359	463	2.822	3,968		2,381	793	3,174		22	330	352
	Total		2,359	463	2.822	3,968		2,381	793	3,174		22	330	352
	Urban	505	2,813	1,264	4,669	6.310	1,262	3,534	252	5.048	379			379
San Carlos City	Rura	91	5.587	7,180	12,783	17,411	969	10,447	2,786	13,929	089	466		1,146
	Total	809	8,400	8,444	17,452	23,721	1.958	13,981	3,038	18.977	050.1	466		1,525

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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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		2	No of House	of Household Served	4									
Name				sed Year	,				Phase I	Phase I Coverage (2005)	2005)			
Municipality/City	Area		Pour		,	Total No.		Household Coverage	Coverage		Additio	Additional No. of HHs to be Served	HHs to be	Served
		Flush		VIP/Dry	Total	of HHs	Flush	Pour Flush	VIP/Dry	Total	Flush	Pour Flush	VIP/Dry	Total
	Urban	206	1,176	95	1,477	2,100	420	1,176	84	089"!	203			203
San Ennque	Rural	163	1,139	323	1,625	2,455	163	1,473	328	1.964		334	5	339
	Total	369	2,315	418	3,102	4,555	583	2,649	412	3,64	203	334	5	542
	Urban		9,117	49	9,166	12,009	2,402	7.205		6,607	<u>4</u>			4
Silay City	Rural		3.750	2,028	5,778	15.239	610	9,143	2,438	12,191	610	5,393	410	6,413
	Total		12,867	2,077	14,944	27.248	3,012	16,348	2,438	21.798	1,051	5,393	410	6,854
	Urban	456	1,518	1.597	3,571	4,347	456	1,518	1.597	3,571				
Sipalay	Rural	822	2,850	1,655	5,327	8,762	822	5,258	930	7,010		1,683		1,683
	Total	1,278	4,368	3,252	8,898	13,109	1.278	6,776	2,527	10.581		1,683		1,683
	Urban	872	3,000	666	4,865	7,282	1,457	4,078	167	5,826	585	376		196
Talisay City	Rural		163	4.755	4,918	8,439	. 338	5,063	1.350	6,751	338	1,495		1,833
	Total	872	3,163	5.748	9,783	15,721	1,795	9,141	1,641	12,577	923	1,871		2,794
	Urban	20	800	244	1,064	1,685	337	944	. 29	1,348	284			284
Toboso	Rural	42	1.509	3,180	4,731	7,571	303	4,543	1,211	6,057	192	1,065		1,326
	Total	62	2,309	3,424	5,795	9,256	640	5,487	1.278	7,405	245	1,065		1,610
	Urban	75	2,458	380	2,913	4,505	106	2,523	180	3,604	169			(69)
Valladolid	Rural	13	1,279	174	1,466	2,425	45	1,455	388	1,940	84	176	214	474
-	Total	88	3,737	554	4,379	6,930	866	3,978	568	5,544	775	176	214	1,165
	Crban	1,491	5,054	2,430	8.975	13,564	2,713	7,596	542	10,851	1,222	654		1,876
Victorias City	Rurai	115	1,751	1.572	3,438	5.243	210	3,146	838	4,194	95	199		756
	Total	1,606	6,805	4,002	12,413	18.807	2.923	10,742	1.380	15,045	1,317	1,315		2,632
	Urban	189'6	68,299	38,167	116,147	159,893	26,402	88,496	14,632	129,530	10,687	2,696		13,383
Provincial Total	Rural	6.619	ı	91,486	189,625	287,853	13,695	175,122	41,976	230,793	6,548	33,661	656	41,168
	Total	16,300	159,819	129,653	305,772	447,746	40.097	263.618	809'95	360,323	17,235	36,357	656	54,551

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

Name of Area Municipality/City	- \$ 	households	No. households Served in 2005	500				Phase II	Phase II Coverage (2010)	2010)			
		Pour			Total No.	ŀ	Household Coverage	Coverage		Additio	nal No. of	Additional No. of HHs to be Served	Served
	Flush	Flush	VIP/Dry	Total	of HHs	Flush	Pour Flush	VIP/Dry	Total	Flush	Pour Flush	VIP/Dry	Total
Urban	362	3,709	1,417	5,488	8,953	4,163	2,746	1,417	8,326	3,801			3,801
Bago City Rural	917	13,758	3,669	18:344	33,241	1,224	27,197	1,496	29.917	307	13,439		13,746
•	1,279	17,467	5,086	23,832	42,194	5,387	29,943	2,913	38,243	4,108	13,439		17,547
Urban	1,018	2,851	204	4,073	7,024	3,266	3,062	204	6,532	2,248	211		2,459
Binalbagan Rural	255	3,821	1,018	5.094	8.575	772	6,560	386	7,718	217	2,739		3,256
	1,273	6,672	1,222	9,167	15,599	4,038	9,622	290	14,250	2,765	2,950		5,715
Urban	1,521	4,259	304	6,084	10,511	4,888	4,583	304	9,775	3,367	324		3,691
Cadiz City Rural	2,548	11,782	1,379	15,709	24,622	2,216	18,836	1,108	22,160		7,054		7,054
Total	4,069	16,041	1,683	21.793	35,133	7,104	23,419	1,412	31,935	3,367	7,378		10,745
Urban	515	1,441	103	2,059	3,257	1,515	1,411	103	3,029	1,000			1,000
Calatrava	488	7,327	1,954	6,769	15,933	1,434	12,189	717	14,340	946	4.862		5,808
Total	1,003	8,768	2,057	11,828	19,190	2,949	13,600	820	17,369	1,946	4.862		6.808
Urban	111	309	22	442	735	342	320	22	684	231	11		242
Candoni	113	1,691	450	2,254	4,471	113	3,710	201	4,024		2,019		2,019
Total	224	2,000	472	2,696	5,206	455	4,030	223	4,708	231	2,030		2,261
Urban	606	2,544	181	3,634	6,309	2,934	2,752	181	5.867	2,025	308		2,233
Cauayan	500	7,496	1,998	9,994	17,780	006	14,302	008	16,002	400	6,806		7,206
Total	1,409	10,040	2,179	13,628	24,089	3,834	17,054	186	21,869	2,425	7,014		9,439
Urban	1,349	3,777	270	5,396	9,376	4,360	4,090	270	8,720	3,011	313		3,324
Enrique B. Magalona Rural	236	3,533	942	4,711	8,653	350	7,049	389	7,788	114	3.516		3,630
Total	1,585	7,310	1,212	10,107	18,029	4.710	11,139	629	16,508	3,125	3,829		6.954
Urban	1,659	4,644	331	6,634	12,880	5,989	5,658	331	11,978	4,330	1,014		5.344
Escalante Rural	430	6,446	1,719	8,595	12,171	1,095	9,311	548	10,954	665	2.865		3.530
Total	2,089	11,090	2,050	15,229	25,051	7,084	14,969	879	22,932	4,995	3,879		8.874
Urban	1,219	3,413	243	4,875	8,767	4,077	3,833	243	8,153	2.858	420		3.278
Himamaylan Rural	403	6.044	1,611	8,058	14,490	1,304	11,085	652	13,041	901	5.041		5.942
Total	1,622	9,457	1,854	12,933	23,257	188,5	14,918	\$68	21,194	3.759	5,461		9,220
Urban	504	1.410	100	2,014	3,647	1,696	1,596	100	3,392	1,192	186		1,378
Hinigaran	058	7,136	1,528	9.514	17,487	1,574	13,377	787	15,738	724	6,241		6.965
Total	1,354	8,546	1.628	11.528	21,134	3,270	14.973	288	19,130	1,916	6.427		8,343
	8	1,504	1,249	2,761	4,105	1,909	099	1,249	3,818	1,901			1.901
Hinoba-an (Asia) Rural	7	2,043	2,002	4,052	6,205	7	5,299	279	5.585		3,256		3.256
Total	15	3.547	3,251	6.813	10,310	1.916	5.959	1.528	9,403	1.901	3,256		5.157

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

•		No. I	ouseholds	No. households Served in 2005	500				Phase [[Phase II Coverage (2010)	(2010)			
Municipality/City	Area		Pour			Total No.		Household Coverage	Coverage		Additio	nal No. of	Additional No. of HHs to be Served	erved
		Flush	Flush	VIP/Dry	Total	of HHs	Flush	Pour Flush	VIP/Dry	Total	Flush	Pour Flush	VIP/Dry	Total
	Urban		4,382		4,382	6,984	3,248	3,247		6,495	3,248			3,248
Ilog	Rural		2,676		2,676	4,321		3,695	194	3,889		1,019	194	1,213
<i>,</i>	Tota		7,058		7,058	11,305	3,248	6.942	194	10,384	3,248	1,019	194	4,461
	Urban	129	1,746	76	1.972	3,089	1,437	1,339	26	2,873	1,308			1,308
Isabela	Rura	318	6,046		6,364	11,183	318	9,244	503	10,065		3,198	503	3,701
	Total	447	7,792	26	8,336	14,272	1,755	10,583	009	12,938	1,308	3,198	503	5,009
	Urban	281	2,384	5,925	8,590	16,232	7.548	1,623	5,925	15,096	7,267			7,267
Kabankalan City	Rural	908	12,092	3,224	16,122	31,821	2,864	24,343	1,432	28,639	2,058	12,251		14,309
	Total	1,087	14,476	9,149	24.712	48,053	10,412	25,966	7,357	43,735	9,325	12,251		21,576
	Urban	449	3,413	59	3,921	5,908	2.747	2,688	65	5,494	2,298			2,298
La Carlota City	Rural	71	4.987	157	5,215	9,240	832	7,068	416	8,316	761	2,081	259	3,101
	Total	520	8,400	216	9,136	15,148	3,579	9,756	475	13,810	3,059	2,081	259	5,399
	Urban	945	2,645	188	3,778	7,338	3,412		188	6,824	2,467	579		3,046
La Castellana	Rural	373	5.597	1,493	7,463	12,387	373	10,218	557	11,148		4,621		4,621
	Total	1,318	8,242	1,681	11,241	19,725	3,785	13.442	745	17,972	2,467	5,200		7,667
	Urban	420	1,175	83	1,678	2,887	1,343	1,259	83	2,685	923	84		1,007
Manapla	Rural	184	4,832	1	6,442	11,008	481	8,931		9,907	1	4,099		4,099
	Total	106	6,007	1,2	8,120	13.895	1,824	10,190	\$	12,592	923	4,183		5.106
	Urban	442	1,236	88	1,766	3,062	1,424	1,336	88	2,848	982	100		1,082
Moises Padilla	Rural	991	2,497	999	3,329	5,966	166	4,935	268	5,369		2,438		2,438
	Total	809	3,733	754	5,095	9,028	1,590	6,271	356	8,217		2,538		3,520
	Urban	189	2,210	851	3,157	7,303	3,396	3,238	158	6,792	7	1,028	-	3,635
Murcia	Rural	354	5,306	1,414	7,074	10,280	888	7,901	463	9,252	534	2.595		3,129
-	Total	1,143	7.516	1,572	10,231	17,583	4,284	11,139	621	16,044	3,141	3,623		6.764
	Urban	833	2,497		3,330	6,603	3,071	3,070		6,141	2,238	573		2,811
Pontevedra	Rural	205	3.080	821	4,106	6,301	292			5,671	362	1,740		2.102
-	Tota	1,038	5.577	821	7,436	12,904	3,638		284	11,812	2,600	2,313		4,913
	Urban	704	1,970	140	2,814	4.572	2,126	1.986		4,252	1,422	16		1.438
Pulupandan	Rural	06	1,343	358	1,791	2.826	254	2,162	127	2,543	164	618		583
	Total	794	3,313	498	4,605	7.398	2,380	4,148	267	6.795	1.586	835		2,421
	Urban	2,287	6,403	457	9,147	15,409	7,165	6,708		14,330		305		5,183
Sagay City	Rural	845	12,680	3,382	16,907	29,914	2,692	22,885		26.923		10.205		12,052
	Total	3,132	19,083	3.839	26,054	45,323	9.857		1,803	41,253	6,725	10.510		17,235

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

		No. h	ouseholds	No. households Served in 2005	900				Phase II	Phase II Coverage (2010)	(2010)			
Name of Municipality/City	Area		Pour			Total No.		Household Coverage	Coverage		Additio	nal No. of	Additional No. of HHs to be Served	Served
		Flush	Flush	VIP/Dry	Total	of HHs	Flush	Pour Flush	VIP/Dry	Total	Flush	Pour Flush	VIP/Dry	Total
	Urban													
Salvador Benedicto	Rural		2,381	793	3.174	5.644		4,826	254	5,080		2,445		2,445
	Total		2,381	793	3,174	5,644		4.826	254	5,080		2,445		2,445
	Urban	1,262	3,534	252	5,048	8,577	3,989	3,736	252	7,977	2,727	202		2.929
San Carlos City	Rural	969	10,447	2,786	13,929	21,597	770	17,695	972	19,437	74	7.248		7,322
	Total	1,958	13,981	3,038	18,977	30,174	4,759	21,431	1,224	27.414	2,801	7.450		10,251
	Urban	420	1,176	84	1,680	3,396	1,579	1,495	84	3,158	1,159	319		1,478
San Enrique	Rural	163	1,473	328	1,964	3,256	163	2,620	147	2,930		1,147		1.147
	Total	583	2,649	412	3,644	6,652	1,742	4,115	231	880'9	1,159	1,466		2,625
	Urban	2,402	7,205		9,607	18,429	8,570	8,569		17,139	6,168	1,364		7,532
Silay City	Rural	610	9,143	2,438	12,191	18,588	1,673	14,220	836	16,729	1,063	5.077		6,140
	Total	3.012	16,348	2,438	21,798	37,017	10,243	22,789	836	33.868	7,231	6,441		13,672
	Urban	456	1,518	1,597	3,571	690'9	2,822	1,225	1,597	5,644	2,366			2,366
Sipalay	Rural	822	5,258	930	7,010	12,309	294	10,230	554	11,078		4,972		4.972
	Total	1,278	6,776	2,527	10.581	18,378	3,116	11,455	2,151	16,722	2,366	4.972		7,338
	Urban	1,457	4.078	162	5.826	6:836	4,575	4,284	291	9,150	3,118	206		3.324
Talisay City	Rural	338	5,063	1,350	6,751	11,811	42	10,056	532	10.630		4,993		4.993
	Total	1,795	9,141	1,641	12,577	21,650	4,617	14,340	823	19,780	3,118	5,199		8.317
·	Urban	337	944	29	1,348	2,147	666	931	29	1,997	799			662
Toboso	Rural	303	4,543	1,211	6.057	10,086	806	7,715	454	9,077	909	3.172		3.777
	Total	640	5,487	1,278	7,405	12,233	1,907	8,646	521	11,074	1,267	3,172		4,439
	Urban	901	2,523	180	3,604	6,375	2,965	2,784	180	5,929	2,064	192		2,325
Valladolid	Rural	62	1,455	388	1.940	3,492	26	2,889	157	3,143		1,434		1,434
	Total	866	3,978	268	5,544	9.867	3,062	5.673	337	9,072	2,064	1,695		3,759
	Urban	2,713	7,596	542	10,851	19,668	9,146	8,603	542	18,291	6,433	1,007		7.440
Victorias City	Rural	210	3,146	838	4,194	7.776	700	5,948	350	866.9	490	2,802		3,292
	Total	2,923	10,742	1,380	15,045	27,444	9.846	14,551	892	25.289	6,923	3.809		10,732
	Urban	26,402	88,496	14,632	129,530	229,451	106,701	92.056	14,632	213,389	80,299	8,731		89.030
Provincial Total	Rural	13,695	175,122	41,976	230,793	393,434		311,316	17,704	354,091	12,532	136,194	956	149,682
	Total	40,097	263.618	56.608	360,323	622,885	131,772	403.372	32,336	567,480	92.831	144,925	956	238,712

No.

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

	Std No of Public		Phase I Coverage (2005)	erage (2005)	Projected	Phase II Coverage (2010)	erage (2010)
Name of Municipality/City	School Student that	Projected No. of Public School	Public School	Additional No. of Public School	Number of Public	Public School	Additional No. of Public School
	Base Year (1998)	Student in 2005	Students Coverage	Student to be Served	in 2010	Coverage	Students to be
Bago City	13,600	37,500	24,271	10,671	43,062	38,756	14,485
Binalbagan	8,320	15,227	12,653	4,333	16,449	14,804	2,151
Cadiz City	7,600	33,043	17,003	9,403	34,987	31,488	14,485
Calatrava	7,960	16,618	12,689	4,729	0.0001	17,703	5,014
Candoni	1,040	5,079	2,485	1,445	5.534	4,981	2,496
Cauayan	6,280	22,894	12,795	6,515	25,507	22,956	10,161
Enrique B. Magalona	2,320	6,907	5,139	2,819	11,445	10,301	5,162
Escalante	7,920	26,760	15,535	7,615	26,143	23,529	7,994
Himamaylan	10,280	23.206	16,884	6,604	25,628	23,065	6,181
Hinigaran	14,120	18,249	14,120		20,908	18,817	4,697
Hinoba-an (Asia)	4,480	11,598	7,780	3,300	10,987	888'6	2,108
Ilog	2,640	10,662	5,674	3,034	10,980	9,882	4,208
Isabela	10,240	12,995	10,240		14,608	13,147	2,907
Kabankalan City	6,840	41,409	18,624	11,784	47,037	42,333	23,709
La Carlota City	7,920	14,273	11,982	4,062	15,140	13,626	1,644
La Castellana	15,170	17,460	15,170		20,114	18,103	2,933
Manapla	4,520	11,498	7.792	3,272	12,454	11,209	3,417
Moises Padilla	5,160	4,273	5,160		5,216	4,694	
Murcia	3,360	20,702	9,251	168,8	18,910	17,019	7.768
Pontevedra	760	11,768	4,109	3,349	13,334	12,001	7.892
Pulupandan	4,800	5:932	4,800		6,303	5,673	873
Sagay City	3,880	35,090	13,865	9,985	40,377	36,339	22,474
Salvador Benedicto		3.856	1,097	1,097	4,591	4,132	3,035
San Carlos City	5,840	28.882	14,059	8,219	31,210	28,089	14,030
San Enrique	1,640	4,982	3,058	1,418	5.873	5,286	2,228
Silay City	4,040	25,640	11,336	7,296	28,103	25,293	13,957
Sipalay	6,160	16,424	10,834	4,674	18,592	16,733	5,899
Talisay City	6,240	17,629	11,257	5,017	20,034	18,031	6,774
Toboso	3,440	12,219	6,917	3,477	13,018	11,716	4,799
Valladolid	480	7,033	2,481	2,001	8,391	7.552	5,071
Victorias City	12,040	23.508	18,730	6,690	27,465	24,719	686'5
Provincial Total	060'681	546,316	327,790	138,700	602.070	541.865	214,541]

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

City Type No. of PU Actifices Actifices			Coverage in B	erage in Base Year (1998)		Phase 1 Coverage (2005)			Phase I Coverage (2010)	
Lebic Market With Sanitary Pacients Facilities Facilities Tollets Profiles Proble Utilities Profiles Proble Utilities Profiles Public Utilities	Name of	Type	No. of PU	No. of PU	No. of PU	Add'l. No. of	No. of PU	No. of PU	Add'l. No. of	No of Pr
Public Market 12 13 Toilets Toilets Park/Playground 22 2 2 3 3 14 14 4	Manacipanity Caty		with Toilets Facilities	with Sanitary Toilets	with Toilets Facilities	Public Utilities with Sanitary	with Sanitary Toilers	with Toilets	Public Utilities with Sanitary	with Sanitary
Bus/leoproy Terminal 12 13 13 13 Purks/Plaggound 22 23 13 1 Purks/Plaggound 22 23 1 23 1 Public Market 36 36 38 2 38 30 1 Public Market 36 36 37 4						Toilets			Toilets	, vinces
Busk/leptney/Terminal 2 2 2 2 3 1 Parks/Playground 22 22 22 3 35 3 1 Public Market 4 4 4 5 1 5 5 5 Busk/legpney/Terminal 3 3 4 1 4 4 4 Public Market 3 3 4 1 4 4 4 Parks/Playground 3 9 11 2 11 2 3 3 Public Market 3 9 11 2 11 12 1 Public Market 6 6 6 6 6 7 1 Public Market 2 2 2 3 3 1 Public Market 2 2 2 3 1 1 Busk/leoproy Terminal 3 3 4 1 1 1 Parks/Pla		Public Market	12	12	13	-	13	13		13
Parks/Playground 22 22 23 1 1 1 1 1 1 1 1 1	Rago City	Bus/Jeepney Terminal	2	2	2		2	3		т
Total Second Se	(1) (Sp)	Parks/Playground	22	22	23	1	23	23		23
Public Market 4 4 5 1 5 5 Bus/Jecpney Terminal 3 3 4 1 4 4 4 Purkey Playground 9 11 2 11 12 1 Parkey Playground 6 6 6 6 7 1 Parkey Playground 6 6 6 7 1 1 Parkey Playground 6 6 6 7 1 1 Parkey Playground 16 16 16 17 1 1 Parkey Playground 16 16 16 16 17 1 Parkey Playground 16 16 16 16 17 1 Parkey Playground 2 2 2 2 2 2 Parkey Playground 2 2 2 2 2 2 Parkey Playground 3 3 3 4 1 1		Total	36	36	38	2	38	39	-	39
Bust/lespney Terminal 3 4 1 4 4 4 Parks/Playground 2 2 1 2 1 1 Public Market 30 30 30 30 30 30 30 Public Market 30<		Public Market	4	4	5	-	5	S		5
Perkok Playground 2 2 2 3 1 Perkok Playground 2 3 3 1 2 11 12 1 Public Market 30 30 30 30 30 30 30 Bus/Jespney Terminal 6 6 6 7 1 1 1 1 Public Market 15 6 12 6 7 1 <th< td=""><td>Binalbaman</td><td>Bus/Jecpney Terminal</td><td>3</td><td>3</td><td>4</td><td>1</td><td>4</td><td>4</td><td></td><td>4</td></th<>	Binalbaman	Bus/Jecpney Terminal	3	3	4	1	4	4		4
Parks/Playground		Parks/Playground	2	2	2		2	3		3
Public Market 30 30 30 30 30 Bus/Jeepincy/Terminal 8 8 9 i Bus/Jeepincy/Terminal 6 6 6 7 1 Public Market 12 6 12 1 1 1 Public Market 28 22 29 7 29 30 1 Public Market 2 2 2 2 3 1 1 Public Market 2 2 2 3 1		Total	6	6	11	2	=	12		12
Bus/Jeepney Terminal 8 8 9 1 Bus/Jeepney Terminal 6 6 6 7 1 Total Public Market 12 6 12 12 12 1 Public Market 18 16 16 16 17 1 1 1 Public Market 28 22 29 7 29 30 1 Public Market 2 2 2 2 3 1 1 Public Market 6 6 6 6 8 2 Public Market 16 14 17 3 17 1 Bus/Jeepney Terminal 3 3 3 4 1 1 Parks/Playground 3 3 3 4 1 1 Total 4 6 6 8 2 2 Bus/Jeepney Terminal 1 1 1 1 1 Parks/Pl		Public Market	30	30	30		30	30		30
Parks/Playground 6 6 6 6 6 7 1 1 1 1 1 1 1 1 1 1	Cadiy City	Bus/Jeepney Terminal	8	8	8		œ	6		6
Total 44 44 44 44 44 44 44 44 44 44 44 44 44 46 2 Public Market 12 6 12 6 12 17 1 Parks/Playground 28 22 29 7 29 30 1 Public Market 2 2 2 3 1 1 Public Market 16 6 6 6 8 2 Public Market 16 14 17 3 17 1 Public Market 2 2 2 2 2 2 Public Market 2 3 3 4 1 1 Public Market 2 3 3 4 1 1 Public Market 2 2 2 2 2 2 Bus/Jecpney Terminal 2 3 3 4 1 1	(m.)	Parks/Playground	9	9	9		9	7		7
Public Market 12 6 12		Total	4	4	44		4	46	2	46
Bus/Jeepney Terminal 1	:	Public Market	12	9	12	9	12	12		12
Parks/Playground 16 16 16 16 17 17 1 Total 28 22 29 30 1 1 Public Market 2 2 2 3 1 1 Parks/Playground 2 2 2 2 2 2 Public Market 16 6 6 6 8 2 1 Public Market 3 3 3 3 4 1 1 Public Market 2 2 2 2 2 2 2 Public Market 2 2 2 2 2 2 2 Public Market 3 3 3 3 4 1 1 Parks/Playground 2 2 2 2 2 2 2 Parks/Playground 2 3 3 3 3 3 3 Public Market 6 6<	Calamava	Bus/Jeepney Terminal				-	1	1		I
Total 28 22 29 7 29 30 1 Public Market 2 2 2 3 1 1 Bus/Jeepney Terminal 2 2 2 3 1 1 Parks/Playground 6 6 6 6 8 2 2 Public Market 16 14 17 3 1 1 1 Parks/Playground 3 3 3 3 4 1 1 Public Market 2 2 2 2 2 2 2 Bus/Jeepney Terminal 1 1 1 1 1 1 1 Public Market 6 6 6 3 3 3 3 1 Public Market 6 6 6 6 7 1 1 Public Market 6 6 6 6 7 1 1 Public Ma	3	Parks/Playground	16	16	16		16	17	1	17
Public Market 2 2 2 3 1 Bus/Jeepney Terminal 2 2 2 3 1 Parks/Playground 2 2 2 2 3 1 Total Warket 16 14 17 3 17 1 <td></td> <td>Total</td> <td>28</td> <td>22</td> <td>29</td> <td>7</td> <td>29</td> <td>30</td> <td>-</td> <td>30</td>		Total	28	22	29	7	29	30	-	30
Bus/Jeepney Terminal 2 2 2 2 3 1 Parks/Playground 2		Public Market	2	2	2		2	3	-	3
Parks/Playground 2	Candoni	Bus/Jeepney Terminal	2	2	2		2	٣	1	3
Total 6 6 6 8 2 Public Market 16 14 17 3 17 17 Bus/Jeepney Terminal 3 3 3 4 1 1 Public Market 2 2 2 2 2 2 Public Market 2 2 2 2 2 2 Public Market 6 6 6 7 1 1 Public Market 6 6 7 1 1 1 Public Market 6 6 7 1 1 1 Public Market 6 6 7 1 1 1 1 Public Market 6 6 6 7 1 1 1 1 1 Public Market 6 6 6 7 1 1 1 1 1 1 Parks/Playground 2 2 3		Parks/Playground	2	2	2		2	2		2
Public Market 16 14 17 3 17 17 Bus/Jeepney Terminal 3 3 3 4 1 1 Parks/Playground 19 17 20 3 20 22 2 Public Market 2 2 2 2 2 2 2 Parks/Playground 2 2 3 1 1 1 1 Public Market 6 6 6 7 1 1 1 Public Market 6 6 6 7 1 1 1 Public Market 6 6 6 7 1 <td></td> <td>Total</td> <td>9</td> <td>9</td> <td>9</td> <td></td> <td>9</td> <td>8</td> <td>2</td> <td>8</td>		Total	9	9	9		9	8	2	8
Bus/Jeepney Terminal 3 3 4 1 1 Parks/Playground 3 3 3 4 1 Total 19 17 20 3 20 22 2 Public Market 2 2 2 2 2 2 2 Parks/Playground 2 2 3 1 3 3 3 Public Market 6 6 6 7 1 1 Bus/Jeepney Terminal 2 2 3 3 3 3 Public Market 6 6 7 1 1 1 Bus/Jeepney Terminal 2 2 3 3 3 3 Parks/Playground 2 2 3 3 3 3 Total 8 10 2 11 1		Public Market	16	14	17	3	17	17		17
Parks/Playground 3 3 4 1 Total 19 17 20 3 4 1 Public Market 2 2 2 2 2 2 2 Bus/Jeepney Terminal 2 2 3 1 1 1 1 Public Market 6 6 6 6 7 1 1 Bus/Jeepney Terminal 2 2 3 3 3 3 Parks/Playground 2 2 3 3 3 3 Parks/Playground 2 2 3 3 3 3 Total 8 8 10 2 11 1	Cauavan	Bus/Jeepney Terminal						1		-
Total 19 17 20 3 20 22 2 Public Market 2 3 1		Parks/Playground	3	3	3		3	4		4
Public Market 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 1 <		Total	19	17	20	3	20	22	2	22
Bus/Jeepney Terminal 1 1 1 1 1 Parks/Playground 2 2 3 1 3 3 Total 2 6 6 7 1 1 Bus/Jeepney Terminal 2 2 3 1 1 1 Parks/Playground 2 2 3 1 3 3 3 Total 8 8 10 2 10 11 1		Public Market	2	2	2		2	2		2
Parks/Playground 2 3 1 3 3 1 7 1 1 7 1 2 2 2 3 3 3 3 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4	Enrique B. Magalona	Bus/Jeepney Terminal			1	1		_		
Total 2 3 1 3 3 3 Public Market 6 6 6 7 1 1 Bus/Jeepney Terminal 1 1 1 1 1 1 Parks/Playground 2 2 3 1 3 3 1 Total 8 8 10 2 10 11 1		Parks/Playground								
Public Market 6 6 6 7 1 Bus/Jeepney Terminal 1 1 1 1 Parks/Playground 2 2 3 3 3 Total 8 8 10 2 11 11		Total	2	2	3			3		3
Bus/Jocpiney Terminal 1 1 1 Parks/Playground 2 2 3 1 3 Total 8 8 10 2 10		Public Market	9	9	9		9	7	-	7
Parks/Playground 2 2 3 1 3 Total 8 8 10 2 10	Escalante	Bus/Jeepney Terminal			1	ı				
8 10 2		Parks/Playground	2	2	3	1	2	3		3
		Total	S	ø	01	2	10			

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

		The second secon							
		Coverage in Base Year (1998)	1se Year (1998)		Phase I Coverage (2005)			Phase I Coverage (2010)	
Name of Municipality/City	Type	No. of PU with Toilets	No. of PU with Sanitary	No. of PU with Toilets	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	Toilets	Toilets	Facilities	With Sanitary Toilets	Toilets
	Public Market	9	9	7	-	7	7		7
Time and a second	Bus/Jeepney Terminal			1	_	_			-
איז וווימווומן איז וווי	Parks/Playground	9	9	9		9	9		9
	Total	12	12	14	2	14	14		4
	Public Market	1	1	2		2	2		2
i i i i i i i i i i i i i i i i i i i	Bus/Jeepney Terminal			1			1		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Parks/Playground	2	2	2		2	3	-	3
	Total	3	3	5	2	\$	9		9
	Public Market	2		2	2	2	2		2
Hinoha-an (Acia)	Bus/Jeepney Terminal			1	1		-		
(m.co.)	Parks/Playground							1	
	Total	2		3	3	m	4		4
	Public Market	9	9	9		9	7		7
1100	Bus/Jeepney Terminal			1		l	1		-
9	Parks/Playground						-	1	•
	Total	9	9	7	Į	2	6	2	6
	Public Market	2	2	2		2	3	1	3
[cabela	Bus/Jeepney Terminal	2	2	2		2	2		2
714.0707	Parks/Playground	9	9	9		9	7	1	7
	Total	10	10	10		10	12	2	12
	Public Market	28	14	28	14	28	28		28
Kahankalan City	Bus/Jeepney Terminal	12	12	12		12	14	2	14
	Parks/Playground	2	2	3		3	3		3
	Total	42	28	43	51	43	45	2	45
====	Public Market	10	01	01		10	10		01
Ta Carlota City	Bus/Jeepney Terminal	8	8	8		8	8		S
517 80 87	Parks/Playground	2	2	2		2	3	-	3
	Total	20	20	20		20	21	-	21
	Public Market	9	9	9		9	9		9
II.a Castellana	Bus/Jeepney Tenninal	4	4	4		4	5	1	5
	Parks/Playground	5	5	S		5	9	1	9
	Total	15	15	1.5		15	17	2	17

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

Name of Municipality/City Type No. of PUI No. of PUI <t< th=""><th></th><th></th><th>Coverage in Base Year (1998)</th><th>ase Year (1998)</th><th></th><th>Phase I Coverage (2005)</th><th></th><th></th><th>Phase I Coverage (2010)</th><th></th></t<>			Coverage in Base Year (1998)	ase Year (1998)		Phase I Coverage (2005)			Phase I Coverage (2010)	
Public Market	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 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
Bust/Seproy Terminal		Public Market	4	2	4	2	4	4		4
Parks/Playground	. (Bus/Jeepney Terminal			1	1	1			1
Total S 6 9 3 9 10 1 1 1 1 1 1 1 1	Manapia	Parks/Playground	4	4	4		4	5	1	S
Public Market 2 2 2 3 1 Public Market 8 6 6 7 1 1 Public Market 8 8 8 11 3 1 Public Market 8 8 8 11 3 1 Public Market 4 4 4 4 4 5 1 Public Market 2 2 2 3 1		Total	8	9	6	3	6	10	1	10
Bus/Jeepney Terminal 6 6 6 7 1 1 1 1 1 1 1 1 1		Public Market	2	2	2		2	3	1	ы
Parks/Playground 6 6 6 6 7 1 1 1 5 1 1 1 5 1 1	A C	Bus/Jeepney Terminal						1	1	₽~-4
Public Market	IVIOISES PAGINA	Parks/Playground	9	9	9		9	7	1	7
Public Market		Total	8	∞	8		8	11	3	11
Bus/Jeepney Terminal 2		Public Market	4	4	4		4	5	1	S
Parks/Playground	÷.	Bus/Jeepney Terminal			1	1	J	1		1
Total 6 6 6 7 1 1 7 9 9 2	IVI UTCI Z	Parks/Playground	2	2	2		2	3	••	6
Public Market		Total	9	9	7		7	6	2	6
Parks/Playground		Public Market	7	2	2		2	3	1	3
Parks/Playground 4 4 4 4 4 5 1 Public Market 5 1 7 1	- A	Bus/Jeepney Terminal						1	1	
Total 6 6 6 6 9 3 3 Public Market 4 4 4 4 4 4 1 1 1 Bus/Jeepney Terminal 2 2 12 22 10 22 2 2 2 2 3 1	Forcedra	Parks/Playground	7	4	4		4	5		5
Public Market		Total	9	9	9		9	6	3	6
Bus/Jeepney Terminal 4 4 4 4 5 1 1 Parks/Playground 8 8 8 8 10 22 10 22 10 22 22 10 22 22 22 22 22 3 1 2 2 2		Public Market	4	4	4		4	4		4
Parks/Playground 4 4 4 4 4 5 1 Total Public Market 8 8 8 10 2 7 1	Dutanadan	Bus/Jeepney Terminal						1	1	1
Total 8 8 8 10 2 Public Market 22 12 22 10 22 22 Bus/Jeepney Terminal 10 10 10 10 10 11 1 Parks/Playground 34 24 34 10 34 36 2 Bus/Jeepney Terminal 34 24 34 10 1 1 1 Parks/Playground 1 1 1 1 1 1 1 Public Market 9 9 9 9 10 1 1 1 Parks/Playground 30 30 30 30 30 31 1 1 Parks/Playground 30 46 46 46 48 48 2 2	ייייייייייייייייייייייייייייייייייייייי	Parks/Playground	4	4	4		4	5	1	5
Public Market 22 12 22 10 22 22 32 32 32 32 32 32 32 32 33 33 33 34 35 32		Total	8	8	8		8	10	2	10
Bus/Jeepney Terminal 2 2 2 3 1 Parks/Playground 10 10 10 10 11 1 1 Public Market 34 24 34 36 2 2 Public Market Parks/Playground 1 1 1 1 1 Parks/Playground 9 9 9 9 10 1 1 Bus/Jeepney Terminal 6 6 7 1 1 3 2 Bus/Jeepney Terminal 6 6 7 1 7 7 Parks/Playground 30 30 30 31 1 1 Parks/Playground 30 30 30 31 1 1 Total 45 45 45 45 2		Public Market	22	12	22	10	22	22		22
Parks/Playground 10 10 10 10 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Canada	Bus/Jeepney Terminal	2	2	2		2	3	1	3
Total 34 24 34 10 34 36 2 Public Market Parks/Playground 1	טמצמי רייי	Parks/Playground	10	1.0	10		10	11	1	11
icto Bus/Jeepney Terminal 1 2 3		Total	34	24	34	10	34	36	2	36
Bus/Jeepney Terminal 1 2 3 2 3 3 2 3 2 3 3 2 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4		Public Market						1	1	_
Parks/Playground 1 1 1 1 1 1 1 1 2 9 2 9 10 1 1 1 3 2 8 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 3 4 3 4	Colynder Denedion	Bus/Jeepney Terminal						1	-	
Total 1 1 3 2 Public Market 9 9 9 10 1 Bus/Jeepney Terminal 6 6 7 7 7 7 Parks/Playground 30 30 30 31 1 1 Total 45 45 1 46 1 48 2	ספונכתורים	Parks/Playground			1	1	1	1		1
Public Market 9 9 9 10 1 Bus/Jeepney Terminal 6 6 7 1 7 7 7 Parks/Playground 30 30 30 30 31 1 Total 45 45 1 46 1 46 48 2		Total			1		1	3	2	3
Bus/Jeepney Terminal 6 6 7 1 7 7 Parks/Playground 30 30 30 31 1 Total 45 45 46 1 46 48 2		Public Market	6	6	6		6	10	1	10
Parks/Playground 30 30 30 31 1 Total 45 46 1 46 48 2	San Carlos Ciry	Bus/Jeepney Terminal	9	9	7	1	7	7		7
45 45 46 1 46 48 2		Parks/Playground	30	30	30	· · · · · · · · · · · · · · · · · · ·	30	31	1	31
		Total	45	45	46	1	46	48	2	48

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

		Coverage in Base Year (1998)	18e Year (1998)		Phase I Coverage (2005)			Phase I Coverage (2010)	
Name of	Type	No. of PU	No. of PU	No. of PU	Add'l. No. of	No. of PU	No. of PU	Add'l. No. of	No. of PU
viunicipanity/City		with Toilets	with Sanitary	with Toilets	Fublic Utilities	with Sanitary	with Toilets	Public Utilities	with Sanitary
		Facilities	Toilets	Facilities	Toilets	Toilets	Facilities	Toilets	Toilets
	Public Market	2	2	2		2	2		2
San Farious	Bus/Jeepney Terminal						1	1	1
מיון ביון למי	Parks/Playground	2	2	2		7	2		2
	Total	4	4	4		4	5	1	5
	Public Market	87	28	28		28	29	1	29
Silay City	Bus/Jeepney Terminal	2	2	3	1	3	3		3
ران (قانح	Parks/Playground	7	4	5	1	5	9	1	9
	Total	34	34	36	2	36	38	2	38
	Public Market	8	8	8		8	6	1	6
Cinalay	Bus/Jeepney Terminal	4	4	4		4	5	1	5
y paray	Parks/Playground	2	2	2		2	3	1	3
	Total	14	14	14		† !	17	3	17
	Public Market	3	3	4		4	4		4
	Bus/Jeepney Terminal			1	I	1			
וים ליים	Parks/Playground	2	2	2		2	2		2
	Total	5	5	7	2	7	7		7
-	Public Market	2	2	2		2	2		2
Coposio	Bus/Jeepney Terminal								
2000	Parks/Playground	2	2	3	1	3	3		3
	Total	4	4	5	1	. 2	5		5
	Public Market	2	2	2		2	2		2
Valladolid	Bus/Jeepney Terminal			1	1	1	1		1
1	Parks/Playground	9	9	9		9	9		9
	Total	8	8	6		6	6		6
	Public Market	2	2	2		2	3	1	т
Viorense City	Bus/Jeepney Terminal	4	4	4		4	5	1	5
	Parks/Playground	16	16	16		16	17	1	17
	Total	22	22	22		22	25	3	25
	Public Market	239	203	245	42	245	257	12	257
Provincial Total	Bus/Jeepney Terminal	59	59	73	14	73	88	15	88
	Parks/Playground	170	170	176	9	176	1%	20	196
	Total	468	432	494	62	494	541	47	541

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.

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. Sixteen (16) untapped springs suitable for Level II system were confirmed during this PW4SP preparation.

(2) Required well drilling and rehabilitation equipment

The 1st DEO (in Talisay City) and 3rd DEO (in Kabankalan City) have a total of 5 units of rotary/percussion drilling rig (6 - 8" of bit diameter and 24 - 150m of depth). Among them, however, only one unit of rotary type drilling rig is operational at present.

Taking into account of 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

)

Name of Municipality/City Name of Daily Averages Name of Served Coverage in 1998		erence on r.	TO DOLLARDO OI	Reference on Expansion of Existing Level III System	III Systen	-		Phase I (2005)	Phase I (2005) Requirements			Phase II (2010	Phase II (2010) Requirements	
No. of Served Name of Name of No. of Served Name of No. of Served Connections Source Expansion to Description Source Expansion to Description Source Served Connections of Ser	;		Covera	ge in 1998	Type of			Number of	Daily Average	Z.	Additional	Number of	Daily Average	1.
Secretary Secr					Water			House	Water	Spring Dev't/	Population		Water	Spring
Page City WD Urban 2 5.724 DW/SP No 5.000 958	o transport		Served		Source			Connections	(m ³ /dav)	Deep Well	to be Served	Connections	(m ² /dav)	Deep Well
Sharabagan WD Total 3 1224 DW/SP No 5.000 958	Bago City WD	Urban	-	5,724										
Binalbagan WD Total 5 6,948 No 3,864 728		Rural	3	1,224		ž	5,000	856	200	1-4	23,296	5.824	2,330	4
Binalbagan WD Urban S 7680 DW No 3.864 728 Cadiz City WD Urban 6 32.767 DW/SP No No No No No No No N		Total	\$	6,948										
Total	Binalbagan WL			7.680									•	
Total 9 12.894 No No No No No No No N		Rural	4	5,214		ž	3,864	728	386	-	15,148	3.787	1,515	7
Cadiz City WW Urban 6 32.767 DW/SP No		Total	6	12.894										
Runal Cadiz City WW Urban 1.500 DW No	Cadiz City WD	Urban		32,767										
Cadiz City WW Rural 1 1.500 DW No No Rural 1 1.500 DW No No No No No No No N		Rural			DW/SP	ž	•				7,173	1.793	717	
Cadiz City WW Urban 1,500 DW No No I				32.767					_					
Total 1 1.500 DW No	Cadiz City WW								_					
Cadiz City WWS Urban 1 1.500 DW No Rural 1 1.500 DW No Total 1 1.500 DW No Total 2 3.2767 SW No Total 8 3.2767 SW No Total 5 1.2.645 SP No Total 5 1.2.645 SP No Total N.A. N.A. N.A. A18 79 Total N.A. N.A. N.A. N.A. A18 79 Total N.A. N.A. N.A. N.A. N.A. A18 79 Excalante WD Urban 1 4.764 No 5.061 964 Excalante WW Urban 1 4.764 No 6.080 1.185 Total N.A. N.A. N.A. N.A. N.A. N.A. Excalante WW Urban 1 759 No 6.080 Excalante WW Urban 1 759 No Rural 1 759 Total N.A. N.A.		Real Lean	-	1,500	<u>₹</u>	ž						_		
Cadiz City WWS Urban 1,500 DW No			-	1,500										
Numicipal Total 1 1,500 DW No 1,100 DW No DW No DW No DW DW DW DW DW DW DW D	Cadiz City WW													
Total 1,500		Rural	-	1,500	MΩ	°Z.								
Municipal Total Rural 2 3.000 SP No S.767 SP No SP SP SP SP SP SP SP S		Total		1,500										
Municipal Total Rural 2 3,000		_	_	32.767						_		-		
Calatrava WS Cala	Municipal To			3,000					_	_				
Secolatrava WS Urban 4 10,269 No Not Applicable Urban N.A. N.A. N.A. A18 Not Applicable Urban N.A. N.A. N.A. A18 Not Applicable Urban N.A. N.A. N.A. A18 Not Applicable Not Applica		Total		35.767										
Not Applicable Urban N.A. N.A. N.A. A18 79	Calatrava WS	Urban		10,269										
Not Applicable Urban N.A. N.A. N.A. A18 79		Rural	1	2,346	ŝ	ŝ.					2,107	527	211	-
Not Applicable Urban N.A. N.A. N.A. A18 79				12,615										
N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A.	Not Applicable			Ą.Y.										
Total State Stat		Rural	Ą Ż	K Z	ć Z	 ₹ Z	418	2	7		2,373	593	237	
Laa Water Assn. Urban 1 900 SP No 3,428 649 3. Magalona EBM Waterworks Urban 3 3,800 DW No 5,061 964 Excalante WD Urban 1 43,800 Dw/NSP No 6,080 1,185 Excalante WW Urban 1 759 Dw/NSP No 7504														
Rural 1 900 SP No 3,428 649	Laa Water Assi													
Total 1 900 1 964 1 84 1 850 1 864		Rural	1	900	Š	2	3,428	<u>8</u>	343	_	20,547	5.137	2.055	m
E8M Waterworks Urban 3 3.500 DW No 5.061 964 Rural 1 3.850 DW No 5.061 964 Excalante WD Urban 1 4.764 Dw/SP No 6.080 1.185 Excalante WW Urban 1 7.59 DW/SP No 6.080 1.185 Excalante WW Urban 1 759 DW/SP No No			-	006										
Rural 1 350 DW No 5,061 964 1 1 1 1 1 1 1 1 1	EBM Waterwo		3	3.500										
Excalante WD Urban 1 4.764 No 6.080 1.185 Excalante WW Urban 1 759 No 6.080 1.185 Excalante WW Urban 1 759 No Found Total 1 759 No Found Total 1 759 No Found Total 1 759		Rura	-	350		2	5,061	3	206		27.067	6.767	2.707	4
Escalante WD Urban 1 4.764 Escalante WW Urban 1 759 Escalante WW Vrban 1 759 Fotal 1 759 DW/SP No 6.080 1.185		Total		3,850						_				
Rural 5 1,320 DgW/SP No 6,080 1,185 Total 6 6,084 Dw/SP No Urban 759 DW/SP No Total 759 Dw/SP No	Escalante WD	Urban	-	4,764										
Total 6 6,084		Rural	ν.	1.320		ž	080'9	1,185	×09	_	37,340	9,335	3,734	v,
Urban 1 759 DW/SP Total 1 759		Total	_	6.084						_				
1 759 DW/SP	Escalante WW	Urban		759										
-		Rural			DW/SP	2								
		Total	-	759										
Urban 2			-	5.523				_						
Municipal Total Rural 5 1,320	Municipal T		5	1,320					_					
7		Total	7	6.843							~ .			

Table 8.6.1 Urban Water Supply Facilities Required by Target Year (Cont'd)

	Referenc	se on Ext	Reference on Expansion of E	Existing Level III System	IIII Systen	,	I	Phase 1 (2005)	Phase 1 (2005) Requirements			Phase II (2010) Requirements	
			Coverag	ge in 1998	Tung		_		Daily Average	Number of			Daily Average	Number of
Municipality/City	Name of Operating Body	Area	No. of	Served	Water	Plan for Expansion			Water	Spring Davit /	Population	Number of House	Water	Spring
	ماردا هراااله		Served	Population	Source		to be Served (Connections	(m ³ /dav)	Deep Well	to be Served	Connections	(m ³ /dav)	Deep Well
Himamaylan	Himamaylan WD	Urban	Ų	4.986										
		Rural	-12	4,782	 ດ	?					28,330	7.083	2,833	4
		Total	6]	9.768										
Hinigaran	Hiniganan WD	Urban	4	948										
		Rural	50	2,142	<u></u>	ž	1.987	360	661	_	10,923	2,731	1,092	7
		Total	24	3.090										1
Hinoba-an (Asia)	Not Applicable	Urban	V'V	N.A.										
		Rural	Ý.V	ΥZ	Ϋ́ Ϋ́	; Z	2,347	451	235	_	13,253	3,313	1,325	7
		Total								-				
1]og	llog WD	Urban	~	1,200										
		Rural			åS	ž	3.877	737	388		21.460	5.365	2.146	r
		Total -	_	1,200									•	`
Isobelo	Not Applicable	Irhan	< 2	47										
		Rural	4 7	Z.	Z	Z.	1,693	333	169		10.045	2.511	1.005	•
		Total										:		
Kabankalan City	ŀ	Urban	_	180			-	-						
	αw	Rural	12	13,782	DW/SP	ž	8.170	1,483	817	~	53,333	13,333	5.333	
	-	Total	13	13,962										
La Carlota City	La Carlota City WD-Urban	Urban	4	16,620										
		Rural	9	9,360	DW/SP	ŝ					5.829	1,457	583	
		Total	01	25.980										
La Castellana	La Castellana WD	Urban		2,958										
		Rural		-	Sp	ž	3,551	675	355	-	21,374	5.344	2,137	М
		Total	1	2.958	-			-						
Manapla	Manapla WD	Urban	5	4,278										
		Rural			<u>^</u>	ž	1.577	380	158		5,117	1,279	512	
		Total	S	4.278										
Moises Padilla	Moises Padilla WW Urban	Urban	7	2,445										
		Rural			Sp	°Z			•		9,192	2,298	919	~
		Fotal	7	2,445		-								
Murcia	Murcia WW	Urban	\$	6,982										
		Rural	_	888	DW/SP	ŝ	2,882	564	288	_	17.887	4,472	1.789	m
		Total	9	7.870								!		,
Pontevedra	Pontevedra WD	Crban	3	7,837			-							
		Runi	~	4.534	dS	2	3,028	\$65	303		14,225	3,556	1.423	۲,
		Total	9	12,371										ı
Pulupandan	Pulupandan WW	Urban	æ	1,284										
	•	Rura	,	762	š	ž	2,614	503	261	_	13,474	3,369	1.347	,
		Total	1.2	2.046	-			:				<u>.</u>		1
Arrest of the second se	Andreas de la companya de la company			-	WINCHWISTON CONTRACTOR							The second second second		,

Table 8.6.1 Urban Water Supply Facilities Required by Target Year (Cont'd)

)

	Referen	ce on Ex	Reference on Expansion of Ex	xisting Level III System	III System			Phase I (2005)	Phase I (2005) Requirements			Phase II (2010	Phase II (2010) Requirements	
7			Coverage	8661 ti a	,		_	,	Daily Average	Number of	17.7		Daily Average	Number of
Municipality/City	Name of Operating Body	Area	No. of Barangay			Plan for Expansion	Additional	Number of House	Water	Spring Dev't./	Additional	Number of House	Water	
			Served	Population	Source	{	to be Served	Connections	(m ³ /dav)	Deep Well	to be Served	Connections	(m ³ /dav)	Deep Well
Sagay City	Lopez Sugar Corp.	Urban	_	1,224										
		Rural			30	ş,	8,645	1,634	865	14	36.880	9,220	3,688	v
<u></u>		Total	_	1,224										
	Phil-Sagay WS	Crban	-	1.290										
		Rum			30	°Z								<u>-</u> .
		Tota)	_	1.290									-	
	Sagay Central Inc.	Urban					_							
		Rural	-	2,104	DW/SP	°Z	•							
		Total	-	2,104		-								
	Sagay WD	Urban	4	10.516	-				-				•	
	·	Rural	7	5.593	DW/SP	°Z.		•••	•					
		Total	-	16,109										
		Urban	ş	13.030										
	Municipal Total	Rural	30	7697										
		Total	4	20,727										
Salvador Benedicto	Not Applicable	Urban	N.A.	Y.Z										
-		Rural	ζ.	¥ Z	∢ Z	4								
		Total												
San Carlos City	SCC Waterworks	Crban	\$	13,585			Ī	1						
		Rura	-	770	DW/SP	°Z	4.582	206	458	_	14 474	3,606	1 442	ŗ
		Total	0.	14,355				!	}	•			•	4
San Enrique	Not Applicable	Urban	Ą.Z	Z				İ						Ţ
<u> </u>		Rural	< Z	Z	Y.	< Z	1.56	300	156	-	11:342	2836	2	ŗ
		Total				•		}	?	•	1	200		4
Silay City	Silay City WD	Crban	7	14,445	-							- -		
	,	Rural	2	2,917		ŝ	9.252	1.717	925	2	46.331	11.583	4.633	,
		Total	٥	17.362		•)))	
Sipalav	Sipalay WW	Urban	4	1.410		-								Ī
-		Rural	_	294	SP	ž	3,237	621	324	-	18,414	4,604	1,841	۲.
		Total	s	1,704				•						
Talisay City	Talisay WD	Urban	4	8,220										
		Rural	_	42	<u>≥</u>	Š	5.308	1,041	531	-	23.858	5,965	2,386	*1
		Tota	13	8,262										-
Toboso	LGU-Toboso	Urban	-	954										
		Rural	72	936	SP	ž	1,216	241	122	-	5.988	1,497	665	_
		Tota	3	1,890						•				-
Valladolid	Valladolid WSA	Urban	_	1,610			-			_				
		Rura			 ≥	2					22,616	5.654	2,262	15.
	Control of the Contro	lota		1.610	\dagger	1								
Victorias City	Victorias WD	rgg.	,	14,400		. :	, ,	000						
		Total	~ <u>~</u>	17,880	\$	<u>.</u>	661.01	666	910.	7	%1.7%	12.545	S.01×	۲-
	The state of the s	lichan nedri		21X CX1				+		ļ				
Provincial Total	Fotal	Rural	8	66.740			213 66	18.050	9 9 5 5	?	FC5 035	1.17	696	
		lota	1	249.575	-			•			F 1.1.	#40°C" / #4 7	66666	ž.
							7			1	,			-

Table 8.6.2 Plan for Expansion of Existing Level III Systems

N	Name of Operating	Additional Areas	Additional		ial Water irces
Name of Municipality/City	Body	Barangay to be Covered	Population to be Served	Туре	Capacity (m³/day)
Bago City	Bago City WD				
Binalbagan	Binalbagan WD				
Cadiz City	Cadiz City WD				
	Cadiz City WW				
	Cadiz City WWS				
	Municipal Total				
Calatrava	Calatrava WS				
Cauayan	Laa Water Assn.				
Enrique B. Magalona	EBM Waterworks				
Escalante	Escalante WD			•	
	Escalante WW				
	Municipal Total				
Himamaylan	Himamaylan WD				1
Hinigaran	Hinigaran WD	· · · · · · · · · · · · · · · · · · ·		· · · ·	
llog	Ilog WD				
Kabankalan City	Kabankalan City WD				
La Carlota City	La Carlota City WD	- 			
La Castellana	La Castellana WD			<u> </u>	
Manapla	Manapla WD				
Moises Padilla	Moises Padilla WW				
Murcia	Murcia WW				
Pontevedra	Pontevedra WD				
Pulupandan	Pulupandan WW			~	
Sagay City	Lopez Sugar Corp.				
	Phil-Sagay WS				-
	Sagay Central Inc.				
	Sagay WD		1		
	Municipal Total				
San Carlos City	SCC Waterworks	- 	1		
Silay City	Silay City WD				1
Sipalay	Sipalay WW				1
Talisay City	Talisay WD		 		1
Toboso	LGU-Toboso		1		
Valladolid	Valladolid WSA	·			1
Victorias City	Victorias WD		1		l .

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

Name of Municipality/City System Level II Level II Level II Level II Level II Municipality/City System Level II Level II Level II Level II Level II Municipality/City System Name of Deep Wolls Name of Deep Wolls <t< th=""><th></th><th></th><th></th><th>Phace</th><th>(2005) Re</th><th>Guirement</th><th>,</th><th></th><th></th><th></th><th>Phas</th><th>e 11 (2010)</th><th>Phase II (2010) Requirements</th><th>ots</th><th></th></t<>				Phace	(2005) Re	Guirement	,				Phas	e 11 (2010)	Phase II (2010) Requirements	ots	
Number of Deep Welks Number of Deep Welks Shallow System Submers of Deep Welks Shallow Shallow Shallow Submers of Deep Welks Shallow Shal		70 1	111) Tropic	(2002)	Leve	173					Lev	el 1		
System S	Name of Municipality/City	A section of	: [_	Z	umber of I	eep Wells		No. of		Z	umber of	Deep Wells		No. of	Total
State		System		ł	80 m	120 m	Sub-total	Shallow	Total	40 m	80 m	120 m	Sub-total	Wells	10.4
A			09	123			123	81	204	283			283	188	471
4 4 9 18 27 91 91 91 91 91 91 91 91 91 91 91 91 92 92 93 18 27 92 92 92 92 92 92 93 104 91 92 92 93 93 104 10	Binalbaga			62			62		62	89			89		80
δ δ β	Dillatoagail									16			91	09	151
A	Cadiz City	+ ~									92		92	22	114
B. Magalona 4 80 38 38 57 95 104 116 117 104 117 B. Magalona 40 40 40 116 171 171 171 171 ylan 116 116 116 116 201 171 171 171 ylan 116 20 12 12 20 12 171 171 171 ylan 116 20 12 22 22 62 172 174 174 sian City 20 178 178 178 178 174 774 274 274 sian City 20 178 178 178 178 174 774 274	Calduava	,			6		6	18	27		27		27	62	68
40 40 17 57 95 95 116 116 116 201 171 171 116 116 116 201 171 171 116 116 116 201 171 171 171 116 120 120 120 120 172 174	Callacan	4	08	38			38	57	95	104			104	152	258
10 10 10 10 10 10 10 10	Farione B Masslons			40			40	17	22	95			95	04	135
State 1.16 1.16 1.16 1.11	Escalante			56			95	01	105						
Sia)	Himamaylan									171			171		171
Color Colo	11:11:21:22			116			116		116	201			201		201
Color Colo	Finigaran							45	45					31	31
Lian City 78 78 78 192 194<	Hinooa-an (Asia)			20			20	12	32	62			62	41	103
tan City 178 178 178 19 197 774	1108			2	78		78		78				192		192
Hand City Hand City 43 32 31 63 27 27 24 27 24	Isabela				178		178	61	197		774		774	\$8	859
City Decire of control of	Kabankalan City				3 2		22	31	63		27		27	26	53
iliana 2 40 39 2 6 65 23 38 38 adalilia 2 29 12 41 38 38 38 drat 50 9 77 86 18 18 18 drat 50 9 77 86 18 18 18 drat 7 140 144 16 160 135 185 185 dan 7 140 144 16 160 185 26 26 ivy 24 24 24 24 24 28 31 28 vy 43 17 17 43 43 43 43 86 31 26 26 civ 67 67 67 74 86 86 86 86 86 86 86 86 86 86 86 86 86 86 86	La Carlota City				2 2		101	: =	16		24		24	216	240
drametic of control o	La Castellana			20	2		30	26	59	23			23	15	38
Padilla 29 77 86 18 18 dra 50 50 18 18 18 dan 50 60 18 185 185 dan 7 140 144 144 16 160 567 567 567 rispection 7 140 136 136 34 170 218 218 rispective 24 24 24 24 28 28 rispective 45 45 45 45 43 31 28 ry 45 45 43 43 86 33 26 26 City 67 67 67 7 74 29 86 20 scity 26 25 21 62 25 2071 3526 15	Manapla	7	}	22	QC.		90	51	4				38	16	\$
dran 50 7 50 18 185 dan 4an 144 144 16 160 18 135 dan 7 140 144 144 16 160 567 567 right 7 140 136 34 170 218 218 right 136 34 170 24 28 28 28 solue 45 43 43 43 43 43 31 28 city 67 67 7 7 74 86 86 city 67 67 7 7 74 86 86 sctv 26 26 26 86 86 86 86 sctv 26 27 7 7 7 7 86 86 sctv 26 26 26 26 86 86 86 sct	Moises Padilla				67		3	12.	8						
dragen 20 135 135 135 135 135 135 135 136 138 138 138 138 138 138 138 138 136 </td <td>Murcia</td> <td></td> <td></td> <td>(</td> <td></td> <td></td> <td>^ \$</td> <td>`</td> <td>200</td> <td>181</td> <td></td> <td></td> <td>81</td> <td></td> <td>18</td>	Murcia			(^ \$	`	200	181			81		18
dan tigy 7 140 144 164 16 160 267 567 567 tigy 7 140 144 144 16 160 27 567 567 r Benedicto 136 136 136 34 170 218 218 218 28 socity 45 45 45 44 45 31 28 28 28 ty 43 43 43 43 43 86 33 26 26 City 67 67 67 7 74 86 86 iid 26 25 21 86 86 86 iid 26 26 26 26 26 26 iid 26 26 27 74 86 29 iid 26 26 26 26 26 26 is City 27 28 21 </td <td>Pontevedra</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>135</td> <td></td> <td></td> <td>135</td> <td></td> <td>135</td>	Pontevedra			2			2			135			135		135
lity 7 140 144 144 144 144 144 146 146 147 218	Pulupandan						***	,	031				295		069
r Benecition T Benecities 136 136 136 34 170 218	Sagay City	7	140		44		44.	0,	201						72
tos City 24 150 750 24 25 26 28 28 28 28 28 31 31 31 31 31 31 31 31 31 32	Salvador Benedicto				721		921		170		218		218		272
ty 45 104 149 31 31 ty 45 45 104 149 31 31 ty 43 43 43 43 43 86 33 26 City 67 67 7 74 86 86 86 lid 26 25 51 29 86 29 scircle 26 25 51 62 29 29 scircle 26 25 51 62 62 1.455 2.071 1.3526 1.4	San Carlos City	-	-	70			24		24				28		28
ty ty<	San Enrique			17			45		140				31		103
City 67 17 65 82 26 26 26 iid 26 26 27 74 86 86 86 iid 26 25 51 67 7 74 86 86 iid 26 25 51 62 29 is City 26 25 51 62 62 ovincial Total 25 320 721 709 1,430 780 2,210 1,455 2,071 1,3526 1,4	Silay City	<u> </u>		7			43		98				33		99
cy 26 67 77 74 86 86 cial Total 25 26 25 51 62 29 cial Total 25 320 721 709 1,430 780 2,210 1,455 2,071 3,526 1,430	Sipalay				-		1	37	SS				96		120
vy 26 7 / 74 29 29 29 cial Total 26 25 35 3520 3520 3520 14	Talisay City							3	100				70		i o
ity 26 25 51 62 25 62 ity 26 25 51 62 62 acial Total 25 320 721 709 1,430 780 2,210 1,455 2,071 3,526 1,4	Toboso				/9		ò		†						
ity 26 26 25 31 021 021 021 021 021 021 021 021 021 02	Valladolid								ļ	3			67		3 3
al Total 25 320 721 709 1,430 780 2,210 1,455 2,071 3,526 1,4	Victorias City			26			70		ñ				70		#7 ·
-	Provincial Total	2		7			1,430	780	2.210				3.526	1,423	4.949

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

			14	(200c) 1	II -						ē	.0.00				
			=	138 1 (2003)	Acquirements	ents.					FRA	rnase II (2010) Requirements	Kequirem	ents		
		-	Percenatge	Percenatge Allocated to		Public Facility (50%)				4	ercenatge.	Percenatge Allocated to Public Facility (50%)	Public Fa	cility (50%	•	
Name of Municipality/City		Pe Percent	rcentage / age Alloca	Percentage Allocated for Percentage Allocated for Publi	r Public We Iic Spring D	Public Wells (90%) and c Spring Development (10%)	nd t (10%)	.,		Per Percents	rcentage Al ige Allocat	Percentage Allocated for Public Wells (90%) and Percentage Allocated for Public Spring Development (10%)	Public We c Spring D	Public Wells (90%) and c Spring Development (ınd ıt (10%)	
		Number of Deep Wells	f Deep We	lts	No. of	Total	No. of	Grand	~	umber of	Number of Deep Wells	×	No. of	1	No. 0f	Grand
	40 m	80 m	120 m	Sub-total	Wells		Dev.	Total	40 m	80 m	120 m	Sub-total	Wells	2001	Spring Dev.	Total
Bago City	95			56	il	92	10	102	128			128	84	212	24	23
Binalbagan	28			28		28	3	31	40			40		40	5	45
Cadiz City									41			4	77	89	8	2/2
Calatrava								L		7		41	0.	51	9	S
Candoni		4		4	6	13	-	14		12		12	28	70	5	45
Cauayan	18			18	25	43	5	48	47			47	69	116	13	129
Enrique B. Magalona	19			19	7	26	3	29	43			43	18	61	7	89
Escalante	44			44	4	48	5	53								
Himamaylan								_	77			77		77	6	88
Hinigaran	52			52		52	9	28	91			16		16	10	101
Hinoba-an (Asia)					21	21	2	23					14	14		ř
llog	6			6	5	14	2	16	29			29	18	47	5	S
Isabela		35		35		35	4	39		86		98		98		č
Kabankalan City		81		81	8	68	10	66		349		349	38	387	43	430
La Carlota City		15		15		29	3	32		12		12	12	24		2
La Castellana		5		5	36	41	5	46		11		Ξ	26	108	12	120
Manapla	18			18		30	3	33	11			Ξ	S	17	2	ľ
Moises Padilla		14		14	5	19	2	21		17		17	7	24	3	7.7
Murcia		4		4	35	39	4	43								!
Pontevedra	22			22		22	3	25	8			8		8	-	
Pulupandan									19			19		61	7	89
Sagay City		65		65	7	72	8	80		255		255	28	283	32	315
Salvador Benedicto				-									32.	32	4	3(
San Carlos City		19		61	15	76	6	85		86		86	24	122	14	136
San Enrique	=	`		11		=	-	12	13			13		13]	12
Silay City	21			21	46	. 67	8	7.5	15			15	32	47	\$	5
Sipalay	20			20	61	30	4	43	15			15	15	30	3	3
Talisay City		8		8	53	37	4	41		12		12	94	85	7	65
Toboso		30		30	3	33	4	37		68		39	4	43	5	48
Valladolid									13			13		13	2	1;
Victorias City	12			12	Ξ	23	3	26	28			28	28	56	9	95
Provincial Total	330	322		652	347	666			099	932		1,592	637	2,229	254	2,483

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

Average performance

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

Annual accomplishment

9 wells/year (365 days/year ÷ 30 days/well x 0.75)

Required number

- 15 sets for the total 652 deep wells

Well rehabilitation equipment:

Average performance

- 1 well/7 days (well redevelopment and finishing work

Annual accomplishment

39 wells/year (365 days/year ÷7 days/well x 0.75)

Required number

- 2 sets for 10% of 652 Level I deep wells

Support vehicle:

Type - pick-up truck with winch, double cab

Required number

2 units for well rehabilitation

Considering the utilization of existing drilling rigs, it is necessary for the province to procure/mobilize 14 units of medium size percussion rig for the medium-term development plan. Likewise the following equipment shall be considered for medium-term development plan to meet the physical targets:

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

In addition to the above, for long-term plan, each one unit of medium size percussion rig and service truck equipped with crane for hauling drilling tools/water is required.

Table 8.6.4 Urban Household Toilets Required by Target Year

			Phoce	I -	(2005) Requirements	<u>ا</u>				Pha	Phase II (2010) Requirements	Requirem	ents	
Name of	1984	HILL LANGE	Additional HHE to be Serve	ıΙT	2	OTHE	o he Served		Addition	Additional HHs to be Served	7.64	Z	No, of HHs to be Served	2
Municipality/City	Flush	our Flush	Flush Pour Flush VIP/ Dry	Total	Flush P	our Flush	Pour Flush VIP/ Dry	Total	Flush Pour	Pour Flust VIP/ Dry	Total	Flush	Pour Flush VIP/ Dry	Total
Bago City				L					3.801		3,801	3,801		3,801
Binalhacan	563	28		165	563	28		165	2,248	211	2.459	2.248	211	2,459
Cadio City	4.	756		797	4	756		797	3,367	324	3,691		324	3.691
Calatrava	591			165	165			165	1,000		1.000			1.000
Candoni				13	13			13	231	11	242		11	242
Canavan	120			120	120	Ī		120	2.025	208	2,233		208	2.233
Farious B. Macalona	1 340	461		1,801	1,340	461		1,801		313	3,324		313	3.324
Figure	255			255	255			255	4,330	1,014	5,344		_	5.344
Himamaylan	797			797	797			797	2.858	420	3,278			3.278
Himogram	156	45		201	156	45		201	1,192	186	1,378		186	1,378
Hinoba-an (Asia)									1,901		1,901			1.901
100									3,248		3,248			3.248
(Subela									1.308		1,308			1,508
Kabankalan City									7,267		7,267	7,267		7.267
Ta Carlota City									2,298		2,298	2,298		2.298
La Castellana	845	48		893	845	84		893	2.467	879	3,046		579	3,046
Manapla	277	148		425	277	148		425	923	84	1,007	923	84	1.007
Moises Padilla	351			351	351		_	351	982	100	1,082	586	100	1,082
Murcia	705	156		198	705	156		198	2.607	1,028	3,635		_	3.635
Pontevedra	291			291	291			291	2,238	573	2,811	2,238	573	2.811
Pulupandan	258			258	258			258	1,422	16	1,438			1.438
Sagay City	202	24		729	705	24		729	4,878	305	5,183	4.878	305	5.183
Salvador Benedicto														
San Carlos City	379			379	379			379	2.727	202	2.929			2.929
San Enrique	203			203	203			203	1.159	319	1,478			1.478
Silay City	144			144	441			1441	6,168	1.364	7.532	6,168	1.364	7.532
Sipalay									2,366		2.366	2.366		2,366
Talisay City	585	376		196	585	376		196	3.118	206	3.324	~	206	3,324
Toboso	284			284	284			284	662		662			662
Valladolid	169			169				169	2.064	261	2,325			2,325
Victorias City	1,222	654		1.876	1,222	654		1.876	6.433	1,007	7.440		1.007	7.440)
Provincial Total	10,687	2.696		13.383	10,687	2.696		13.383		8,731	89.030	80,299		89.030
	And the second	ı		Conditional States of the Consumer of	l								The second secon	

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Table 8.6.5 Rural Household Toilets Required by Target Year

			Dhou	Dhoug I (2005)	Decripone						Dhous	, II /2610\	Decision			
Name of			1 1143	Š	Similar inhay (Cr	200		1			F 1123	0107 113	r HASC II (2010) Ned ulreillents	CHES		
Municipality/City	Add	tional HH	Additional HHs to be Served	,ed		No. of HHs to be Served			Additi	onal HHS	Additional HHs to be Served	ved		No. of HHs to be Served	be Serve	_
(in Americana)	Flush	Flush Pour Flush VIP/ Dry	VIP/ Dry	Total	Flush P	Pour Flust VIP/ Dry	Dry Total	Н	Flush Po	Pour Flush VIP/ Dry	/IP/ Dry	Total	Flush P	Pour Flush VIP/ Dry	'IP/ Drv	Total
Bago City	385			385	385			385	307	13,439		13,746	307	13,439		13,746
Binalbagan	100	1.112		1,212	100	1,112	T	1,212	217	2,739		3,256	517	2,739		3,256
Cadiz City		5,005		5,005		5,005	Š	5,005		7,054		7,054		7,054		7,054
Calatrava	470	999		1,136	470	999		,136	946	4.862		5.808	946	4.862		5.808
Candoni	113	37	-	150	113	37		150		2,019	-	2,019		2,019		2.019
Cauayan	352	20		402	352	50		402	400	908'9		7.206	400	908'9		7,206
Enrique B. Magalona	236	1,445		1,681		1,445	1	189	114	3,516	-	3,630	114	3,516		3,630
Escalante	430	761		1,191	430	761	<u>-</u> -	1,191	999	2,865	-	3.530	\$99	2,865		3,530
Himamaylan	142	1.367		1,509	142	1,367		605,1	106	5,041		5,942	106	5,041		5,942
Hinigaran		1,222		1,222		1,222	rí	,222	724	6,241	ļ	6.965	724	6,241		6,965
Hinoba-an (Asia)										3,256	k	3,256		3,256		3,256
Ilog										1,019	194	1,213		1,019	8	1,213
Isabela	253	303		556	253	303		556		3,198	503	3,701		3,198	503	3,701
Kabankalan City	742	1,092		1,834	742	1,092	1	1,834	2,058	12,251	l	14,309	2,058	12,251		14,309
La Carlota City									761	2,081	259	3,101	192	2,081	259	3,101
La Castellana	367	1,662		2,029	367	1,662	2.	2,029	_	4,621		4.621		4,621		4,621
Manapla		1,679		1,679		1.679	1	629		4,099		4,099		4,099		4,099
Moises Padilla	166	583		749	166	583		749		2,438		2,438		2,438		2,438
Murcia	280	1,848		2,128	280	1.848	2.	2,128	534	2,595		3,129	534	2,595	-	3,129
Pontevedra	183	468		159	183	468		651	362	1,740		2,102	362	1,740		2.102
Pulupandan	36			36			_	36	164	819		686	164	819	-	983
Sagay City	225	3,066		3,291	225	3,066	3,	3,291	1,847	10,205		12,052	1,847	10,205	-	12,052
Salvador Benedicto		22	330	352		22	330	352		2,445		2,445		2,445		2,445
San Carlos City	089	466		1,146	089	466	-	1,146	74	7,248		7,322	74	7,248		7,322
San Enrique		334	5	339		334	5	339		1,147		1,147		1,147		1,147
Silay City	019	5,393	410	6,413	610	5,393	410 6,	6,413	1,063	5,077		6,140	1,063	5.077		6,140
Sipalay		1,683		1,683		1.683	_	,683		4.972		4.972		4,972		4,972
Talisay City	338	1,495		1,833	338	1,495		1,833		4.993		4.993		4,993	-	4,993
Toboso	261	1.065		1,326	. 261	1,065		,326	605	3,172		3,777	909	3,172		3.777
Valtadolid	84	176	214	474	84	176	214	474		1,434		1,434		1,434		1,434
Victorias City	95	661		756	95	661	Transfer of the second	756	490	2,802		3,292	490	2,802		3,292
Provincial Total	6,548	33,661	626	41.168	6.548	33,661	959 41.	41,168	2:532	136,194	956	149,682	12.532	136,194	956	149,682

Table 8.6.6 Public School Toilets Required by Target Year

	Phase I (2005) Requirements	Requirem	ents	Phase II (2010) Requirements	Requirem	ents
Name of Municipality/City	Additional Public	No. of	No. of	Additional Public	No. of	No. of
•	School Students to	Toilet	Toilet	School Students to	Toilet	Toilet
	be Served	Unit	Facilities	be Served	Unit	Facilities
Bago City	10,671	267	22	14,485	363	7
Binalbagan	4,333	601	22	2,151	5.4	
Cadiz City	9,403	236	48	14,485	363	7.
Calatrava	4,729	119	24	5.014	126	2
Candoni	1,445	37	8	2,496	8	-
Cauayan	6,515	163	33	10,161	255	51
Enrique B. Magalona	2,819	71	15	5,162	130	26
Escalante	7,615	191	39	7,994	200	04
Himamaylan	6,604	166	34	6,181	155	31
Hinigaran		-		4,697	118	24
Tinoba-an (Asia)	3,300	83	17	2,108	53	
log	3,034	76	16	4.208	106	22
Sabela				2,907	73	15
Kabankalan City	11,784	295	59	23.709	593	119
a Carlota City	4,062	102	21	1,644	42	6
a Castellana				2,933	74	15
Manapla	3,272	82	17	3,417	86	18
Moises Padilla						
Murcia	5,891	148	30	7.768	195	39
Pontevedra	3,349	84	17	7,892	198	9
Pulupandan				873	22	S
Sagay City	9.985	250	20	22,474	562	113
Salvador Benedicto	1,097	78	9	3,035	76	16
San Carlos City	8,219	206	42	14,030	351	71
San Enrique	1,418	36	8	2,228	98	12
Silay City	7,296	183	37	13,957	349	100
Sipalay	4.674	117	24	5,899	148	30
alisay City	5,017	126	26	6.774	170	34
1 ODOSO	3,477	87	81	4.799	120	24
Valladolid	2,001	51	=	5,071	127	26
ictorias City	0690	168	34	5,989	150	30
Provincial Total	138,700	3,481	710	214,541	5.378	1.087

Table 8.6.7 Public Toilets Required by Target Year

		Phase 1 (2005)	Phase I (2005) Requirements			Phase 11 (2010)	Phase II (2010) Requirements	
AiO/vii enician Moo ome N		Number of P	Number of Public Toilets			Number of P	Number of Public Toilets	
Name of Municipality City	Public Market	Bus/Jeepney Terminal	Parks/ Playground	Total	Public Market	Bus/Jeepney Terminal	Parks/ Playground	Total
Bago City	1		1	2		1		
Binalbagan]			7			1	
Cadiz City						1	1	2
Calatrava	9	1		7			l	1
Candoni					1	1		2
Cauayan	3			છ		1	1	2
Enrique B. Magalona				p==				
Escalante			-	7	П			
Himamaylan	1			2				
Hinigaran	1	1		2			1	1
Hinoba-an (Asia)	2	1		3			1	
Ilog		1		1	1		1	2
Isabela					1		1	2
Kabankalan City	14		1	15		2		2
La Carlota City							1	1
La Castellana						1	1	2
Manapla	2	1		3			1	
Moises Padilla					1	1	1	3
Murcia		1		1	1		1	2
Pontevedra					1	1	1	3
Pulupandan						1	1	2
Sagay City	10			10		1	1	2
Salvador Benedicto			1	1	1	1		2
San Carlos City		1		1	1		1	2
San Enrique						1		1
Silay City		1	1	2	1		1	2
Sipalay					1	-	1	3
Talisay City	1	1		2				
Toboso			-					
Valladolid				-				
Victorias City					-	1		3
Provincial Total	42	14	9	62	12	1.5	20	47

SECTOR IMPLEMENTATION ARRANGEMENTS

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).

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

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

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.

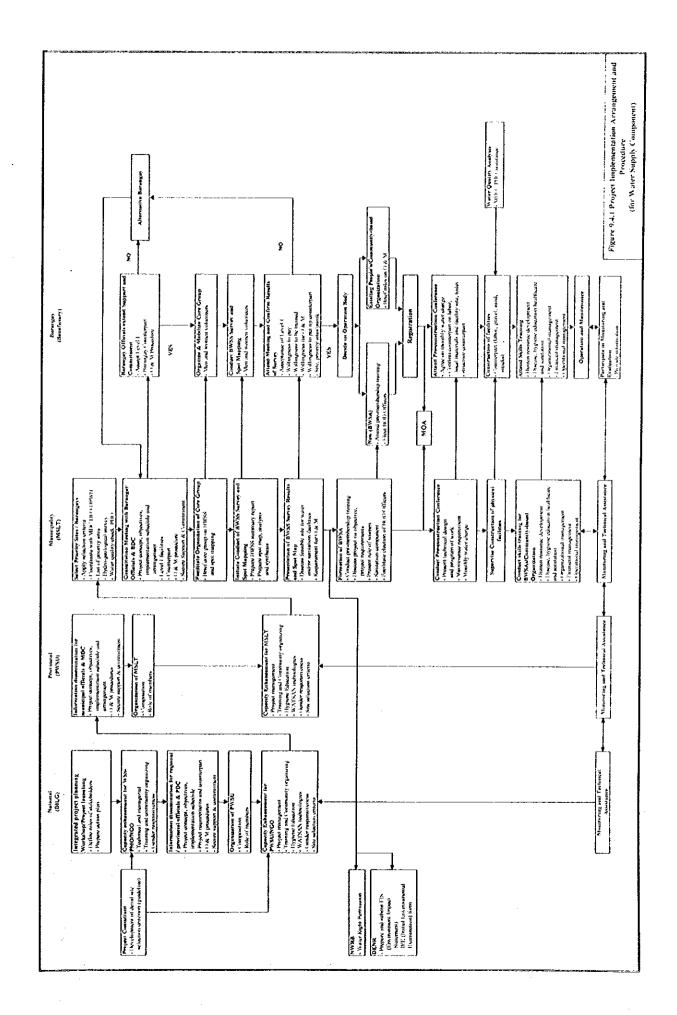
(2) Local Government Level

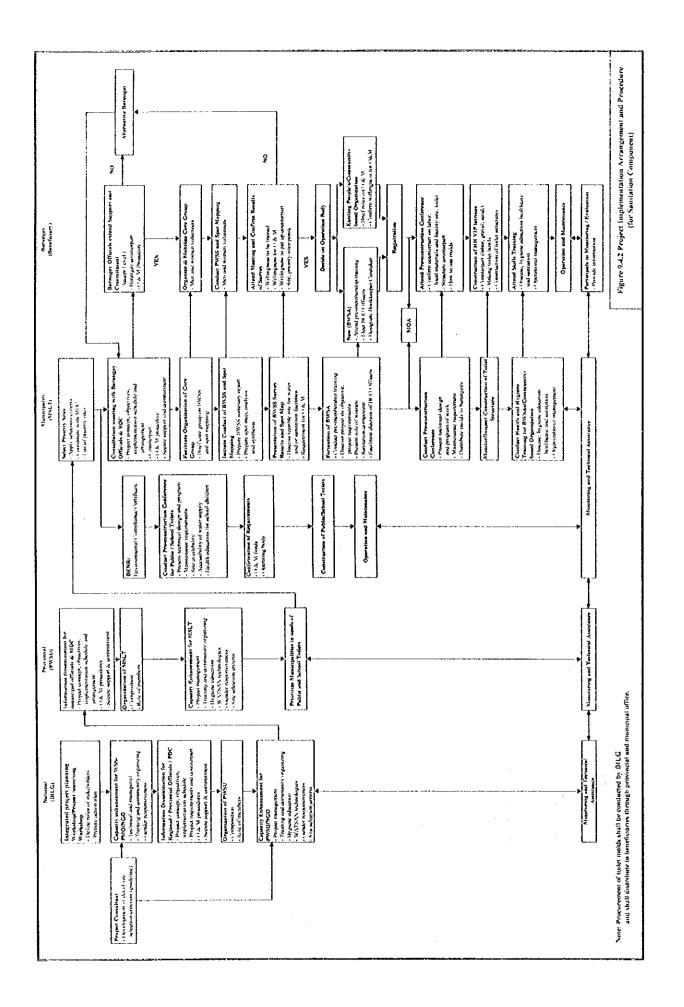
The PWSU shall assist the MSLT in each municipality and conduct information dissemination for the municipal officials to orient them on the project and obtain their support and commitment. With the PWSU assistance, the trained MSLT members shall select priority barangays, in coordination with the municipal 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.

(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.





PROPOSED SITE SELECTION CRITERIA

Barangay:	Municipality:	Province:
(1). Required Iter	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	ce 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%
	e e e e e e e e e e e e e e e e e e e	
(4) Total Score		
Item No.	Description	Score
(1)	Required items	OK or Not
(2)	Physical requirements	
(3)	Community interest and involvement	
e e		
12 (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	Total Score	
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Proposed Capacity Enhancement Program

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

SPOT MAP

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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.
- 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 latring 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.

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

Barangay Activities	Responsible Party	Duration (Day)	Cost
Pre-Formation/Social Preparation Phase	, in the second		
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 prioritization of community needs. The decision on the acceptance of Level I water facility and barangay counterpart shall emanate from them.	CO/NGO; PWSU/MSLT; Barangay Officials Development Council	0.5	
Barangay Water Supply and Sanitation 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 toilets.	CO/NGO: PWSU/MSLT: Men and Women Volunteers	S	P600
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 confirmed in terms of acceptance of Level I water facilities, site of the water facility/ies, willingness to contribute for water fee, operate and maintain the 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 sanitation facilities and houses in need of latrine. The community members will decide among themselves which sitios/puroks will be given priority in the provision of water and sanitation facilities. The community members 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.	CO/NGO; PWSU/MSLT; Prospective Users	0.5	P500

	Barangay Activities	Responsible Party	Duration (Dav)	Cost
B.	Formation Phase			
4 9 9 9	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.	CO/NGO; PWSU/MSLT; Prospective Water Users		P1.000
	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.			
ý	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.	CO/NGO; PWSU/MSLT; BOD/Officers	p4	P1,000
· •		BOD/Officers CO/NGO; PWSU/MSLT;		
K	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.	CO/NGO; PWSU/MSLT; BOD/Officers members	જ	P500

	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	01	
6	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	v	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	P1,800
ان	Post Formation Phase			
11.	11. 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	

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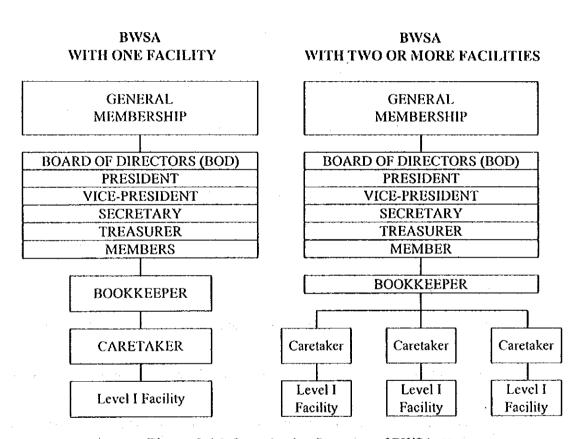


Figure 9.4.3 Organization Structure of BWSA

Sample Manifesto

MANIFESTO RESOLUTION

0

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

	٥.	That we will excluse the	tonowing rights.	
		a. Right to vote		
		b. Right to hold elec	tive office	
			ned of the association's affairs	
			ssociation's facilities	
	6.	That we will hold an an	mial masting over	to diamon the
	0.	association's business and	nual meeting every to elect officers for one year.	, to discuss the
NOV	u Tuci	DECORE us barounta est o	ur hands this	dan af
19_	v, incr 	XEFORE, WE HEICHING SEL O	ur nanos uns	day of,
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18.				

	(Name of BWSA)
	(Barangay, Municpality)
	(Province)
The Board of	f Directors Date
and Sanitatio	Barangay Waterworks on Association
Gentlemen:	
pledg	teby apply for membership in Barangay Waterworks and tation Association to avail of its services of providing potable water for domestic use. I ge to faithfully obey and comply with the rules and regulations, which may be promulgated to Board of Directors.
I her	eby further pledge to:
1. 2.	Attend all meetings which will be called by the BWSA Board of Directors/Officers; Attend training/seminars which will be conducted by PWSU/MSLT for BWSA members;
3.	Pay monthly water fee contributions for operation, repair, maintenance and cost recovery of the facilities as may be prescribed by the Board;
4.	Observe proper utilization of water and preventive maintenance of facilities as required by the Association;
5.	Assist in the installation of the water facility by providing labor, local materials and snacks, and
6.	Help attain the objectives of the Association.
For inforpage.	rmation about myself and my household, please refer to my information sheet at the back
	Signature of Applicant Over Name in Print
	Right Thumbmark

BWSA Member Information Sheet

Age Civil	Status:	Sex;	
Place of Birth:			
Household Members (include hou	usehold help):		
Name	A	ge	Relation to Membe
	_		
		· · · · · · · · · · · · · · · · · · ·	
` .			
Present Water Source used by Ho	usehold (Please Check):		
Handpump	Art	esian Well	
Handpump	Art	esian Well ing	
	Art		
Handpump Dug Well	Art		
Handpump Dug Well Others	Art Spi		rs
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Handpump Dug Well Others Present Expenses for Water per M Distance of Water Source to the H	Ant Spr Spr South Iouse on above are true and corre	mete	knowledge. 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 Secretary. The President designates the Bookkeeper and Carctaker of the BWSA. The duties and responsibilities of the Board/Officers, Bookkeeper and Carctakers are shown below.

(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.

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 gertain 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)

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.

Ó

- 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 bookkceper
 - · 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.

1

(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 Statementor Operations Figure B-9 CASH POSITION STATEMENT Figure B-10 REPORTS REPORT Figure 8-11 BOOKS CASH RECORD BOOK
Figure B-6 RECEIVABLE BOOK PAYABLE BOOK (Figure B-7) 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-3 Figure B4 TRANSACTONS CASH-DISBURSEMENT) CASH-IN (CASH RECEIPTS) NON-CASH TRANSACTIONS

)

GENERAL ACCOUNTING PLAN (GAP)

FOR BWSA TRANSACTIONS

OFFICIAL RECEIPT BWSA	OR. NO. Date:
the sum of	(P)
in payment of	
Billing Form #	
•	
	Treasurer/Collector (Bookkeeper)
Note: Print Name Below Signature	(IN TRIPLICATE)

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

CASH PAYMENT VOUCHER	CPV No. Date:
Paid to :	
A 3.5	
	(P
PARTICULARS	AMOUNT
Approved By:	Received from
	The amount of
	As payment for the above described.
	Received By
	Date Received
	•
	VOUCHER
Note: Print Name Below Signature	(IN TRIPLICATE)

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

		Nan	ne of BWSA	<u>.</u>				
••		Barangay	, Municipal	ity				
Province								
		BILL	ING FOR	кМ				
			for					
		WATER C	:ONSUMP	NOIT				
Name of Men	nber							
Address:		···		· · · · · · · · · · · · · · · · · · ·				
				Ma				
				140.				
		RIOD COVER		140.				
FRC MONTH		RIOD COVER	TO DAY	YEAR	AMOUNT			
)M		TO					
)M		TO					
MONTH	DM DAY		TO DAY	YEAR	AMOUNT			
MONTH Date of Billing	DM DAY	MONTH	TO DAY Please pay	YEAR On or Before	AMOUNT			
MONTH Date of Billing	DM DAY	MONTH	TO DAY Please pay	YEAR On or Before	AMOUNT			
MONTH Date of Billing	DM DAY	MONTH	TO DAY Please pay	YEAR On or Before	AMOUNT			

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

		Date:
		Invoice #
	INVOICE	
		······································
Sold to:		

ITEM	NO.	UNIT PRICE	PRICE
			·
		·	
		, ,	
TOTAL		71	p

Received By:	-	
(Print Name below	w Signature)	

BWSA	
CAS	H RECORD BOOK
COLLEC	TION/DISBURSEMENT
Month:	Year:

DATE	PARTICULARS	CREDIT (Money Received)	DEBIT (Money Disbursed)	DAILY BALANCE
		: :		. •
·				

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

Name of BWSA
Barangay, Municipality
Province

RECEIVABLE BOOK

DATE	BILLING FORM NO.	HOUSEHOLD HEAD (Family Name)	AMOUNT DUE	REMARKS
		•		
				·
•				
		•		
			!	

This form records all accounts due to the Association

BWSA	
	Barangay, Municipality
	n

PAYABLE BOOK

DATE	INVOICE NO. AND DATE	CREDITOR	EXPLANATION	AMOUNT DUE	YOUCHER NO. DATE PAID
* *.				·	
				i :	·
	· •				·
·					:
				r	

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

		Name of BWSA	**************************************
		Barangay, Municipality	·
		Province	
		EMENT OF OPERATIONS Month	
Revenues:			
	Water Fees Others (Specify)		P
5	Total Revenues		<u>p</u>
S 1	Salaries Supplies	ce	p
•	Total Operating Expen	nses	P
Net Income/Loss			p
Prepared By:	·		Date Prepared:
Certified true and	d correct:		Date Certified:
BWSA	Treasurer		
Note: Print Nan			and the control of the second
At the end of each		eper prepares the Statement of O	perations
er Setting of S			FIGURE 9
		9 - 37	

)

	Name of BWSA	
	Barangay, Municipality	 -
	Province	_
	CASH POSITION STATEMENT For the Month	
Revenues:		
xevenues.	Water Fees Contribution Others (Specify)	P
	Total Revenues	<u>p</u>
Less: Opera	ting Expenses:	
•	Salaries	p
	Supplies	
	Repair and MaintenanceOthers (Specify)	
·	Total Operating Expenses	P
Cach Balana	e, During the Period	Th.
Add. Cash I	Ralance Beginning	p
Cash Balanc		
Prepared By	:	Date Prepared:
BWSA	Bookkeeper	-

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.

Barangay, Municipality	ortendamina, angan V
Province	
FINANCIAL SUMMARY R Year End	EPORT
Financial Results	
1. Total Revenues	p
2. Total Expenditures	P
3. Total Cash on Hand	P
4. Total Cash in Bank	
5. Total Accounts Receivable	P
6. Total Accounts Payable	P
Findings/Recommendations:	
	Date Prepared:
Findings/Recommendations:	Date Prepared:
Prepared By: BWSA Bookkeeper	Date Prepared;
Prepared By: BWSA Bookkeeper Note: Print Name below signature	
Prepared By: BWSA Bookkeeper Note: Print Name below signature Financial summary report is made after a year of oper	
Findings/Recommendations: Prepared By:	

Table 9.4.1 Format for Level I Project Data

			·	Form	
			ELIPROJECT DATA upplished upon instruction o	f PST/PWSD	
LOCATION	I.I Barangay/Sitio		1.3 Province		
LOCA	1.2 Municipality		1.4 Region		
POP. DATA	2.1 Total Community/Barangay Population		2.3 Proposed Population to be	Served	
POP. I	2.2 Total Number of Households	· · · · · · · · · · · · · · · · · · ·	2.4 Proposed Number of Hous	cholds to be Served	
ELL SITE	3.1 Ownership : Public	Private	3.3 Location:		
INFORMATION ON THE WELL SITE	3.2 Description :		3.4 Donor (If Private Lot):		
S)	4.1 Type of Point Source:	4.3 For we	lis :		
RBY SOURCE(S)	Deep Well	1	diameter	in. or	
OU.			depth	ft. or	
3Y S	Shallow Well		level Well	ft. or	-
ARI	2.79		apacity/yield	gpm. or	
N L S	Spring	1	rings : Capacity/yieldg	pm. orlps	ı
TIN		Approx	c. elevation above or below		
XXIS	Others (dug well pond)		Service Area	ft. or	m
OF P	4.2 Ownership :	Location			
TON OF EXISTING NEARBY SO	Public		Inside of service Outside of service		
	1 don't	Anneó	timate distance from center		
DESCRIPTION OF EXISTING NEAN	Private	rippio	of service area		er trot
		Prepared b	y:		
			Municipal Liason Staff	Date	. 6148. Fit

Table 9.4.2 Format for Level II Feasibility Study

			la.		Form	
1			Barangay		Municipality	
1	FF A CIBIL ETH OF TOLL			!		
1	FEASIBILITY STUDY (Level II)		Province		Region	
	Notice: This form shall be accomplished upon instruction of the PST/PWSO.		11070116		region	
	TODEC . END TOWN STREET BE RECOMPUTERS UPON INSTRUCT	m 61 (11 231/2 W3().				
		PROJEC	T SUMMARY			
 	1. Present Population	2. Design Population		3. Number	of Households	
DAT					•	
Š.						
3						
POPULATION DATA				6. Number	of Faucets	
ĺ	4. Type of Source	5. Type of System				
	Spring	Gravity	Pumped			
Ϋ́	☐ Well	7. Pump Horsepower		1. Purapir	ne Time	
¥ .	Surface Water			ľ	Hours per Day	
S S			•			
TECHNICAL DATA	9. Total Average Daily Demand	10. Storage Tank Capa	rity	11. Pumo l	Discharge Capacity	
-	Liters	L	-	LPS		
L		,				
	12. Total System Cost	13. Maximum Loan Amount		14. Interest	Rate	
	Р	p				
	15. Local Equity	16. Funding Cost per l	Househald	17. Repayment Period (months)		
Y Y	P	1				
1		<u> </u>				
FINANCIAL DATA	18. Type of Local Equity				, , , , , , , , , , , , , , , , , , ,	
Z	Cash C	Labor	Materials	i .	Others,	
1			<u> </u>			
	19. Total Monthly Expenses		20. Monthly Fee Per I	lousehold		
	P		P	·		
L		·. ·				
		1.1				
	I Survey Form	5 Design of Pipe	Lines	ittings Sched	lule 12 Financial Analysis	
ES.	2 Map of the Project Area 6 Design of Reservoir (G.I. Pipes) 13 Availability of Local					
ANNEXES	3 Design Criteria and	and Pump	_	ittings Scheo	·	
×	Basic Design Data					
	4 Schematic Diagram of	B Pipes Schedule	_	ost Summerj		
	the System				•	
Pr	epared by :	10.4 (14)	Endorsed by :		· · · · · · · · · · · · · · · · · · ·	
					•	
		The Control				
1						
	Municipal Liason Staff	Date	PST/PWSO C	oordinator	Date	
			<u></u>			

Annex 1

SURVEY FORM Rural Water Supply Project

(

A. LOCATION			
	angay : nicipality :	Province Region Number	:
B. GENERAL I	NFORMATION		
1. 2. 3. 4. 5. 6. 7.	Population Number of households Distance from poblacion Availability of electricity Distance from electric line Power cost per kilowatt hour Availability of public transportation	Yes	kilometers No kilometers
8. C. TECHNICAL	Main livelihood of residents	Land transport Water transport Farming Industry Fishing	Others
1.	Are there reliable sources of potable wat	er? [] No	
	a) For Wells Well capacity: Casing diameter: Casing depth: Water level from top of well Location:	:lps : Within service a	area M. from service area
	b) For Springs Average dry season flow Relative elevation of spring a b Location:	: ft. ft. Within service and Outside	m. above service area m. below service area m. from service area

		. ,	om other sourc		□ No		
	For pumps	: Type:		Power:		НР	
	For pipes	:	Galvanize Others, sp] PVC	
3.	Is there an o	existing water	tank that can b	c used?		Yes	
	Туре:	Steel		Reinforc	ed Concrete		
	Capacity:			☐ Gallons		Cubic M	cters
	Location;		cate in the map	of the projec	t area)		
	Relative ele	vation with re	spect to service	arca	☐ f	ı [□ m.
4.	Are there o	ther sites wher	re water tanks r	nay be erected		☐ Yes	
٦.	Location :	(please	indicate in the	map of the pr	oject area)		
٦,			indicate in the spect to service			ı C	⊐ m.
5.	Relative ele	evation with re		e area	☐ f	i [
	Relative ele	evation with re	espect to service	e area	☐ f		_ m.
	Relative clo	evation with re	espect to service	e area	☐ f		
	Relative cle Does the ba If yes, how	rangay have sl w many? Plumbers Masons Carpenters Others	espect to service	e area	☐ f		

D. FINANCIAL INFORMATION

1.	What can the barangay provide as local	l equity?			
	Cash :	2			
	Labor :		man-days		
	Materials:	Sand :			cu, m,
	•	Gravel :	***************************************		cu. m.
		Cement :			bags
		Others, specify:			0-
2.	Have the people been informed of the c			Level II system	ns. particularly
	the monthly fees required to repay loan	& provide for O	& M?	,	, p
				•	
	☐ Yes		□ No		
3.	How much are the people willing to pa	y per household pe	er month as	a water fee?	
			. <u></u> .		. •
	Below P 6.00	P 10.00 - 15.00		Others 🔲	
	₱ 6.00 - 10.00 □	15.00 - 20.00	י רו	Specify:	
4.	Average income per household	n		0	
7,	Average dicome per nousehold	P	per month		-
INST	TITUTIONAL INFORMATION		-		
1.	Is there an existing association who is t	cady, willing and	able to man	age the system	n
	☐ Yes	☐ No			-
	If yes, please specify.				•
	· · · · · · · · · · · · · · · · · · ·				
2.	Are people willing to join a water associated	ciation to operate a	and manage	: .a	• •
	water supply system?	· -	☐ Yes		□ No
		•	•		
3.	How many households are willing to be	e members?		•	households.
4.	Name at least three (3) leaders of the co	ommunity who car	n act as offic	cers of the asse	ociation.
	if required.	•			
		•			
	Name		Address		
					en in transfer and the first of the con-
				· 	
					
					

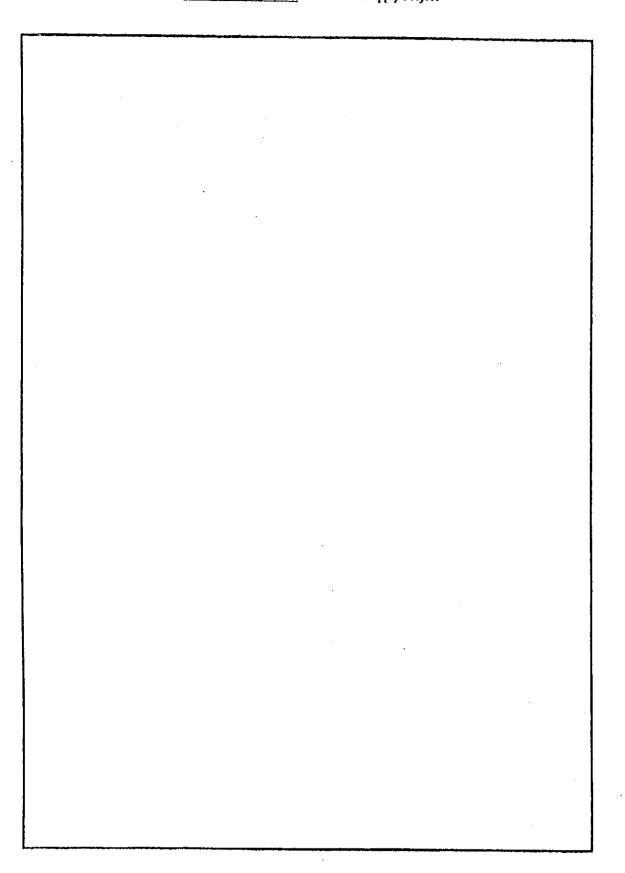
F. MAP OF THE AREA

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:

Annex 2 MAP OF THE PROJECT AREA Rural Water Supply Project



Annex 3

DESIGN CRITERIA AND BASIC DESIGN DATA Rural Water Supply Project

. D	esign (Criteria	
	1.	Design Period	: 5 years
	2.	Population	·
		Annual Growth	: 3%
		Average Household Size	: 6 persons/HH
	÷	Design Population	: Present Population x 1.16
	3.	Per Capita Water Consumption	
		Level II	: 60 lpcd
		Level II with garden	: 75 lpcd
		Level III	: 100 lpcd
	4.	Water Demand	
		Average Day Demand	: Design Population X Per Capita Consumption
		Maximum Day Demand	: 1.3 X Average Day Demand
		Maximum Hour Demand	: 2.5 X Average Day Demand
	5.	Pump Operation	
		Pumping Hours	; 8 -15 hours
		Pumping Rate	: Maximum Day Demand/PumpingHrs, =
	6.	Storage Capacity	: 1/4 of Average Day Demand
	7.	System Pressure	: 5 - 10 psi at faucet
	8.	Households Served Per Faucet	: 4 - 6 НН
. В	asic D	esign Data	
	1.	Present Population	1 <u></u>
	2.	Design Population (Present Population X	1.16)
	3.	Average Day Demand:	•
			asumption) (Design Pop.)
	4	Maximum Day Demand: 1.3 X	•
			e Day Demand)

Annex 5

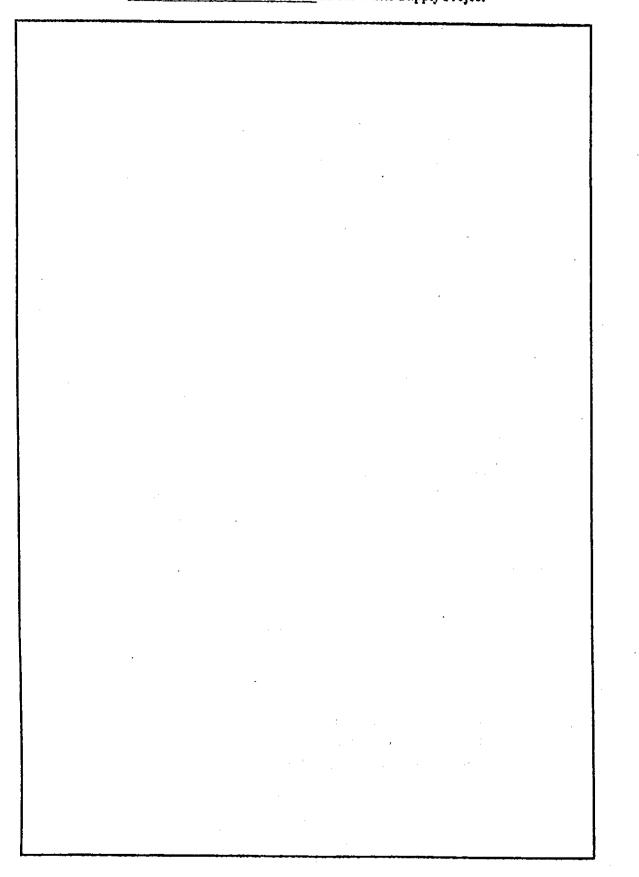
DESIGN OF PIPE LINES Rural Water Supply Project

SECTION	From	To	LENGTH(M)	HOUSEHOLD SERVED	(LPS)	PIPE DIA (MM)	HEAD LOSS PER 100M	ACTUAL HEADLOSS	REMARK
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		i							
		······							
·· · · · · · · · · · · · · · · · · · · 									
					·				
		· · · · · · · · · · · · · · · · · · ·							
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							11 11 44	5. + W	<u> </u>
					n gansa				

Annex 6 DESIGN OF RESERVOIR AND PUMP Rural Water Supply Project

A.	DESIGN		
	1. De	etermine Capacity of Reservoir,	(C,)
		C, = 1/4 x Average Day	Demand
		$C_r = 1/4 \times D_4 \text{ (LPD)}$	
	-	C,=	liters
		*	
	2. De	termine Minimum Water Elevat	ion, (WL _m)
	•		Minimum Pressure in Main (Meters)
			System, Min. Pressure = 5 psi (use 3M.)
			System, Min. Pressure = 10 psi (use 7M.)
		WL m =	
		Note:	The bottom of the storage tank should be higher than this elevation.
7 3	DEGIOVAN	717 C	
В.	DESIGN OF	PUMP	
	i Da	termine Pump Capacity, Q	/t no)
	i. De		·
	•	$Q_p = Max. Day Demand$ $Q_p = 78 P./T$	where: P 4 = Design Population
		Q	
		Q =	T = Operating Time in Seconds LPS
		×	_ 11 0
	2. Ca	lculate Total Dynamic Head, TD	OH (Meters)
	:		evel + by Maximum Reservoir Elevation + friction loss
	•		The state of the s
		TDH =	m
	:		•
	3. Ca	lculate Brake Horsepower Requi	rement :
	e.	D-1 17	Q _p x TDH
		Brake Horsepower =	75 x Efficiency
		Brake Horsepower =	Нр
	į		•
		Where:	•
	:		
		Efficiency for Centrifug	al Pump, 30-60 %
	- }	Efficiency for Submersi	ble Pump, 50-60 %
	1	Efficiency for Jetmatic 1	Pump, 20-30 %

Annex 7 DETAILED DESIGN PLAN Rural Water Supply Project



Anner 8

PIPES SCHEDULE Rural Water Supply Project

PIPE (1)	DIAMETER nun	SECTION (2)	LENGTH m	REQUIRED PIPES (3)	ACTUAL NO. OF PIPES (4)	ADDITIONAL PIPES (3)
	-					
						l
·						
	<u> </u>					
		l		-		
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Annex 9A
FITTINGS SCHEDULE (G.I. PIPES)
Rural Water Supply Project

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VALVES				·								
NPPLE												
FAUCET										·		
COUPLING						-					-	
ELBOW STD SLBOW	MEDUCEK											
BUSHING	Vanora Va							-			-	
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Anner 9B FITTINGS SCHEDULE (PVC PIPES) Rural Water Supply Project

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	ELBOW													
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	SBATYA													
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Annex 10 BILL OF MATERIALS

Rural Water Supply Project

QUANTITY	UNIT	DESCRIPTION	UNIT COST	TOTAL COST
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	•			
				
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Annex 11 COST SUMMARY

Rural Water Supply Project

I.	ESTIMATED COST OF THE SYSTEM	
	1. a) Cost of Pipes p	
	b) Cost of Fittings	
	Total Cost of Pipes and Fittings	P.
	2. Cost of Reservoir	For Philadelphia and the Control of
	3. Cost of Pump	
	4. Labor Cost	· · · · · · · · · · · · · · · · · · ·
	a) 10% of Pipes & Fittings (For G.I. Pipes)	
	b) 25% of Pipes & Fittings (For PVC Pipes)	
	5. Cost of Freight and Handling	
	6. Contingencies 5% (Pipes & Fittings - Labor)	
	Total Cost of the System	P
	For gravity system, omit cost of pump.	
II.	FINANCIAL DATA	
	1. Total Cost of the System P	. ·
	2. Local Equity	 -
	3. Amount of Loan	 -

Annex 12 FINANCIAL ANALYSIS

Rural Water Supply Project

A. RELEVANT DATA				
1. Pumping Hours	:		hrs.	
2. Pump Horsepowe	r ;		HP	
3. Cost/KWH	; P		-	
4. Pump Cost	: P		-	
5. Amount of Loan	: P		_	
6. Loan Terms		T	_ _ % (interest per	r annum)
			years (Repaym	-
7. Number of House			· · · · · · · · · · · · · · · · · ·	
B. COMPUTATION OF MON	THLY EXPENSES (C	mit no	n-applicable it en	18)
1. Operations				•
a. Salaries		_ x _	:	= P
b. Office Supplie	s	_ x _		= P
c. Power		_ x _	-	= P
d. Chemical		_ x _		= P
e. Miscellaneous		_ x _	 	= P
2. Asset Replaceme	nt		in the second	
a. Pump		_ / _		= P
			Life (mos.)	7.1
b. Pipelines		_ / _		= P
		,	Life (mos.)	· · · · · · · · · · · · · · · · · · ·
c. Tank		_ / _	- 	= P
			Life (mos.)	The second of th
d. Others	·	_ / _		= P
			Life (mos.)	
3. Amortization		_ x_		_ = P
	(CRF)		(Loan Amt.)	
4. Maintenance (29 .02 X	% of Capital Equipt.co	sts anni /12	ually)	= P
6. Total Monthly E	Yndrican	112		= P = P
o. Total Mondily E	лреньев			, - r
C. COMPUTATION OF WAT	TER FEE			
Monthly Water Fee Per Ho	usehold:			
	/			= P
(Total M	ionthly Expenses)	(No.	of HH)	

Annex 13 AVAILABILITY OF LOCAL EQUITY

		Item			Amount	
I.	Cash				 -	
II.	Labor					
	Type of Labor	No. of Workers	No. of Days	Rate Per Day		
ш	. Materials Type of Materials Quantity		ntity	Unit Cost	· · · · · · · · · · · · · · · · · · ·	
					- -	
	TOTAL			£	P	
I certify that the items listed above represent the local share of the project cost.			Noted by :			
	Association President Date			Municipal Sector Liason		Date

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