10.3 Cost of Required Facilities and Equipment

10.3.1 Cost of Required Facilities

Table 10.3.1 Construction Cost of Water Supply Facilities Required for Phase I (2004)

	-				Rur	Rural Water Supply	yldd				
	Croan			Z	New System	Į.			I laye I	:	Crand
Name of Municipality	water			1	Le	Level I			Dobokili	Total	3 to 10 to
	Supply	Level II		Deep Well		Shallow	Spring	1,1,1,0	renaou-	70141	100
	Level III	1	40 m	E 08	120 m	Well	Dev.	Subtotal	tation		
Anahawan	2.479			5,710		11.	5,229	10,939	79	11.018	13.497
Bontoc	3,192			9,136		82	5,229	14,448	134	14,582	17,774
Hinunangan	1,674						1,494	1,494		1,494	3,168
Hinundavan	4.563			571			1,494	2,065	8	2.073	6.636
Libacon							1,494	1,494		1,494	1.494
Joan				571				172	8	828	\$79
imasawa	1.220			1,142		1,730	747	3,619	11	3.800	5.020
Maasin (Capital)	27.202			21,128		330	10,458	31,915	323	32,238	59,440
Macrobon				2,284		464	5,229	8,007	179	8,086	8.086
Malithos	3.096			571		1,648	4,482	6,701	165	998'9	9.962
Padre Burgos				4,568	:	2,472	3,735	10,775	299	11.074	11.074
Pintivan	952			:			2,241	2,241		2,241	3,193
Saint Bernard	3.850						747	747		747	4.597
San Francisco				571			747	1,318	8	1.326	1,326
San Juan (Cabalian)	3,490					82		82	8	8	3.580
San Ricardo	685										589
Silago				2,284		577	747	3,608	87	3,694	3,694
Sogod	10,042			1.713		1,318	2,241	5.272	1	5.422	15,464
Tomas Oppus				3,997		247	2.988	7,232	79	7,311	7.311
Provincial Total (w/ ADB Assisted Project)	62,350			54,247		8,982	49,302	112,531	1,605	114,136	176,486
Provincial Total	62.350	:						:	:		62.350

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

					Rural Water Supply	er Supply				
	Urban			Now System	vstem			,		7
	XX/otox			1101	January I			Level I		Grand
Name of Municipality	water			Level I	el I			Rehabili	Total	Total
7	Supply		Deep Well		Shallow	Spring	Subtotal	tation		
	Level LII	40 m	80 m	120 m	Well	Dev.	-			
Amchanam	2,663					2,241	2,241		2,241	4,904
Dontoc	8.045		13,133		165	3,735	17,033	181	17.214	25.260
Himmanoan	1.265		1,713		629		2,372	24	2,396	3,661
Limindeyen	14,104					747	747		747	14,851
Tibooon	4,625		1,142				1,142	16	1.158	5,783
Livagou	15 920						1			15.920
Liloan	4 973				247	3,735	3,982		3,982	8,955
Limasawa	77.202			6 727	82	8.217	15.026	71	15.097	89,304
Maasın (Capital)	74,207		27.			2 241	3 383	16	3.399	24.294
Macrohon	20,895		1,142		700	2000	10.562		18 457	28726
Malitbog	8,303		13,704		479	5,755	207,01	102	70401	11013
Padre Burgos	4,290		-			6,723	0,723	3 / 1	0.723	11.013
Pintuvan	2,765				2,142	747	2,889		2,889	5,654
Saint Bernard	800		3,997		824		4,821	55	4.876	5,677
San Francisco	605	1,973			742		2,715	39	2,754	3,359
San Juan (Cabalian)	13,087		÷		824		824		824	13.911
San Ricardo			*						,	
Silado	6.750					1,494	1,494		1.494	8.244
Speed	15.888			10,464	742	2,988	14,194	110	14,304	30,192
Tomas Omnis	5.025					2,241	2.241		2.241	7,266
Devoincial Total	204 210	1.973	34,832	17,191	7,251	38,844	100,091	700	100,792	305.002
I I O THOUSE I COM										

Table 10.3.3 Cost for Sanitation Facilities Required for Phase I (2004)

													Rural Sanifation	nitation			
				7	rban Sanitation				1		To he	Househald Toilete	lo fe	_			
		Ho	Household Tollets	llets			-	1	Total		TION.	acidoro i o					Total
Name of Municipality	Flush	Pour Flush	VIP/Dry	Sub-total of Cons- truction Cost	Sub-total of Public Invest- ment	Public School Toilets	Public Toilets		Public Invest- ment Cost	Flush	Pour Flush	VIP/Dry	Sub-total of Cons- truction Cost	Sub-total of Public Invest- ment	Public School Toilets	Cons- truction Cost	Public Invest- ment Cost
Ananaman							398	368	398		6,364		6,364	318	934	7.298	1.252
	184	1.273		1.457	2		368	1,825	432								
Chinanganan	1334	İ		3,835	125			3,835	125						-	1	
i sharron																:	
I ilosu	1472			1,472			368	1,840	368								
macawa	575			575				575			4		4	C3		3	त्र
Manage (Control)	14 881	44 903		59.784	2,245	1,868	368	62,021	4,482						936	934	934
Macrobon	2 921	178		3,099	8			3,099	. 6	552	592		1.1	30		1.44	င့်
Malabos	\$52	-		2,062	75		80%	2,430	777		3.286		3.286	3	467	3.753	3
Padre Burgos	782			5252	.223		10 - 20 TO	5,252							234	234	2
Pintayon	097	ŀ		1,022	28			1,022	28	* * * * * * * * * * * * * * * * * * *							
Saint Bemand	368	٣		3,639	<u>\$</u>		368	4,007	:		4,011		401	.02		4 0 7	2
San Francisco	414			932	26			932					7				000
San Juan (Cabalian)	575	3,360		3,935	168			3,935	[2		5,5%		5,506	275	3,	1,457,5	\$
San Ricardo	322	68		411	4			4	7							1	
Silago	1,012			1,012				- 1	- 1				100	1.5	.00	100	200
Sogod	3,979	8,865		12,844	443	467	×	13.680	1:279	3	8,74,		7,00	Ì	57,	747	4
Tomas Oppus					-												
Provincial Total (w/ADB-Assisted Proi.)	29,831	71.499		101,330	3,575	2,335	2.579	106,244	8,489	897	., 28,549		29,446	1,427	3.970	33,416	5.397
W4SP)	29.331	71,499		101,330	3.575	2,335		103,665	\$.910	.68	1.909		2,806	791	2,335	5.141	2,497

Table 10.3.4 Cost for Sanitation Facilities Required for Phase II (2010)

						Contration								Rural Sanitation	nitation			
		ľ			Of Dan Sa	HIMMIN						Fou	Household Tollets	÷				
		외	Household Loilets	iles				Total	Total								Total	101
Name of Municipality	Flush	Pour Flush	VIPAR	Sub-total of Cons- truction	Sub-total of Public Invest-	Public School Tollets	Public Tollers	Cost	£	Urban Sewerage	Plush	Pour Flush	VIP/Dry	Sub-total Sub-total of Construction Invest-Cost ment		Yubik School Tollets	Construction Cost	Public Invest- ment Cost
				100				7.269								701	701	70.
Anahawan	7,268			7.208		1		000	224		10 505	100		22.689	155	6.071	28.760	6,226
Bontoc	7,797			7,797		4,54		1 CO.0			20,654			20.654		5.137	18.33	5.137
Hinunangan	4,485			0.00				17 0.00			6.141			6.14	-	1.401	7.542	1,401
Hinundayan	12,949			7,769				240			5806			9.085	-	2,335	11,420	2,335
Libagon	3,749			5,749				10.758			7 843			7,843		2.802	10.645	2.802
Liloan	10,258			10,238				576 Z				4011		4.01	201	1.168	5.178	1.368
Limasawa	3,243			3,243				077.00	891.	143 877						5.137	5.137	5.137
Maasin (Capital)	96.301			105.0		1,103		15 120	1		13.271	710		13.981	36	3,503	17,484	3.538
Macrohon	15,180			081.01				20170				566.6		19.995	:	4203	24.198	5.203
Malithog	9 223			7,223				6666			6 120			\$ 129	l	104	6.530	io.
Padre Burgos	7,222			777			ny.	030 2	392		× 10	62.0		960.6	67	1.868	10.964	1,917
Pintuyan	2,691			2,091			Sec.	10.741			18.262	3.488		21.710	t.	4.437	26,147	4,609
Saint Bernard	10.741		77	10,741				4 646				4		4	22	1.635	2.079	1.657
San Francisco	980.4	200		0000				777 X				3.878		3.878	76:	2,102	5,979	2.295
San Juan (Cabalian)	×.			o o			891	368	368							1.401	1.401	1.401
San Ricardo								5 244	I.		8,119			8,119		2,102	10,221	2,102
Silago	5,244			5.244				336.66		43.107	ľ	2,270		21.576	71.	4,904	26,480	5.017
Sogod	27,255			27,755				2000			İ	153		322	76	3.036	6.558	212.5
Tomas Oppus	4,853			4,853				C(0'*		200	1	036.67		AC9 55.	91.6	6K 3AD	1	47.457
Provincial Total	241,569		:	241:569		1.401	737	243,707	2,138	195,985	016,061	ocr'75		1,0,7	6110	7	4.33.66.2	
,													1					

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10.3.2 Unit Cost of Required Equipment and Vehicles

Unit cost (CIF Manila) of equipment was referred to the market price in 1998 as follows.

(1) Medium size rotary drilling rig

Type: Truck-mounted top head drive mud circulation type

Rated drilling capacity: 150m depth for 250mm diameter of borehole

Equipment composition:

One unit of truck-mounted drilling rig

Each one set of operating accessories, drilling tools, casing tools and fishing tools

One set of spare parts (equivalent to 10% of above equipment/tool cost)

Unit cost: Peso 32,314,000 per set

(2) Medium size percussion drilling equipment

Type: Truck-mounted cable percussion type

Rated drilling capacity: 150m depth for 250mm diameter of borehole

Equipment composition:

One unit of truck-mounted drilling rig

Bach one set of operating accessories, drilling tools, pipe handling tools and fishing tools

One set of spare parts (equivalent to 10% of above equipment/tool cost)

Unit cost: Peso 25,582,000 per set

(3) Well rehabilitation equipment

Equipment composition:

One unit of diesel engine driven air compressor (7.5 kg/cm² x 500 liter/min.)

One set of air hose and hose fittings

Unit cost: Peso 280,000 per set

(4) Service truck

Type: Diesel engine driven 4 tons truck equipped with crane

Unit cost: Peso 1,200,000 per unit

(5) Support vehicle

Type: Diesel engine driven pick-up truck with electric winch

Unit cost: Peso 590,000 per unit

(6) Refuse collection truck

Type: Closed type compactor truck with 5m³ of payload capacity

Unit cost: Peso 2,057,000 per unit including spare parts

(7) Maintenance tools

One set of maintenance tools for O&M of Level I facility shall be provided to respective municipality.

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Unit cost: Peso 11,000 per unit

(8) Water quality testing kits

One set of water quality testing kits for O&M of Level I facility shall be provided to respective municipality.

Type: Ammonia-nitrogen/Iron testing kit

Unit cost: Peso 16,400 per unit

10.3.3 Cost for Laboratory

Required cost for new laboratory including building/facility and instruments/chemicals and additional cost for upgrading of existing laboratory are shown in Table 10.3.5 and Table 10.3.6, respectively.

Table 10.3.5 Cost for New Laboratory

(Cost: Pesor

				(Cost: Peso)
Item	Unit	Unit Cost	Q'tyl	Amount
1. Building				
New Building	m²	15,000	57	855,000
2. Instruments				
Turbidity meter	set	37,500	t i	37,500
Color meter	s¢t	10,500	1	10,500
pH/Residual chlorine checker	set	16,000		16,000
Incubator	set	105,000	1	105,000
Refrigerator	set	26,800	2	53,600
Sterilizer	set	54,000	1	54,000
Water quality testing kits	set	320,000	1	320,000
Electric stove	set	1,100	1	1,100
Range hood	set	11,000	1	11,000
Sub-total		1		608,700
3. Accessories				
Sink	LS			
Working table	LS			
Shelf	LS			
Office desk	LS		VII. 2 10 10 10 10 10 10 10 10 10 10 10 10 10	
Chair	LS			
Sub-total				65,000
4. Glassware/Chemicals				
Glassware/Chemicals	LS			110,000
Total				1,638,700

Note: LS - Lump Sum

Source: DOH standard price in 1993 Unit Cost: Adjusted to 1998 Price Level

Table 10.3.6 Cost for Upgrading Laboratory

		***		(Cost: Peso)
Item	Unit	Unit Cost	Q'ty	Amount
1. Instruments				
Turbidity meter	set	37,500	1	37,500
Color meter	set	10,500	1	10,500
pH/Residual chlorine checker	set	16,000	20 E 66 1	16,000
Incubator	set	105,000	0	0
Refrigerator	set	26,800	1	26,800
Sterilizer	set	54,000	0	0
Water quality testing kits	set	320,000	1	320,000
Electric stove	set	1,100	1	1,100
Range hood	set	11,000	1	11,000
Sub-total				422,900
2. Glassware/Chemicals				
Glassware/Chemicals	LS			55,000
Total				477,900

Note: LS - Lump Sum

Source: DOH standard price in 1993 Unit Cost: Adjusted to 1998 Price Level

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11. FINANCIAL ARRANGEMENTS FOR MEDIUM-TERM DEVELOPMENT PLAN

11.3 Additional Funding Requirements

Percentages for Annual Investment

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

Table 11.3.1 Percentages for Annual Investment

Sub-Sector	Component	2000	2001	2002	2003	2004	Total
	Level III System	1	l	!			
Urban Water	Feasibility Study and Detail Design	50	: 50	.0	- 0 -	0	100
Supply	Construction & Supervision	0	20	30	30	20	100
	Institutional Development	30	20	20	20	10	100
	Level I Facility						
*	Detail Design	50	50	0	0	l o	100
•	Construction & Supervision	0	20	30	30	20	100
Rural Water	Institutional Development	30	30	20	10	10	100
	<u>ini jima waten bari</u>	Į.	1				1
Supply	Level II System	1		1		· · · · · · ·	
	Detail Design	100	l 0	0	0	0	100
	Construction & Supervision	50	50	- 0	0	0	100
	Institutional Development	50	- 50	0	0	0	100
:	Urban Household Toilet	12	22	22	22	22	100
	Rural Household Toilet	12	22	22	22	-22	100
1 1	Public School Toilet	12	22	22	22	22	100
Sanitation	Public Toilet	12	22	22	22	22	100
	Disinfection of Level I Wells	12	22	22	22	22	100
	Detail Design	100	0	0	0	0	100
•	Construction & Supervision	0	20	30	30	20	100
	Institutional Development	30	30	20	10	10	100

Note: Institutional development includes:

- 1. Capacity enhancement program
- 2. Community management program,
- 3. Health and hygiene education
- 4. Water quality surveillance, and
- 5. Administrative support.

Urban water supply:

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

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- Community development will take place from the first year.

Rural water supply (Level I):

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

Sanitation:

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

11.4 Medium-Term Implementation Arrangements

11.4.2 Alternative Countermeasures

Comprehensive Investment Need Ranking for the Municipalities

Table 11.4.1 presents the comprehensive investment need ranking for the municipalities.

11.5 National Government Assisted Level I Water Supply and Sanitation Project

Presented in Table 11.5.1 are the available IRA for GOP-Assisted Level I Water Supply and Rural Sanitation Project for Eligible Municipalities. Allotment of IRA for rural water supply and rural sanitation comprise of provincial available IRA and municipal available IRA.

Table 11.5.2 presents the urban sanitation project for eligible municipalities, while Table 11.5.3 presents the summary of the total available IRA for GOP-assisted Level I Water Supply and Sanitation project.

The FIRR for Level I water supply project is calculated using a discount rate of 0.09 percent, as presented in Table 11.5.4.

Table 11.6.1 presents the investment program of GOP-assisted Level I Water supply and Sanitation Project.

O&M for Rural Water Supply

Table 11.6.2 shows the O&M cost for Level I facilities which include the reconstruction cost, rehabilitation cost and recurrent cost per household per year for O&M. Table 11.6.3 presents the O&M cost per HH per month by facility and proportion to monthly family income while Table 11.6.4 shows the family income.

O&M for Sanitation

Table 11.6.5 presents the O&M cost for rural sanitation while Table 11.6.6 presents the O&M cost for urban sanitation.

Table 11.4.1 Comprehensive Investment Need Ranking of the Municipalities

	bull to %/	Evaluation Factor "", of Inderserved and Unserved Population or		Households)		Score by	Score by Sub-Sector		· :	Weighte	Weighted Score by Sub-Sector	b-Sector		Synthetic
Name of					Liban	Rural			Urban	Rural	11-4-11	0.000	Total	Mand Banking
Municipality	Urban Water Supply	Rural Water Supply	Urban Sanitation	Rural Sanitation	Water	Water	Urban Sanitation	Rural Sanitation	Water	Water Supply		Sanitation	Weighted Score	F
			4	1.4	0.70	0.20	0.20	0.20	0.18	0.05	0.05	0.05	0.33	2
Anahawan	Y.A.	0		ř	12.0	04.0	8	0.20	0.13	0.10	0.25	50.0	0.58	63
Bontoc	.X.A.	٧.	At .	2	5.0	0,0	040	0.20	0.08	0.05	0.10	0.05	0.28	16
Hinunangan	Y.A.	,				02.0	040	0.20	0.13	\$00	0.10	9.05	0.33	11
Нэпипдауал	N.A.	Ş	12		0.46	0.20	0.20	0.20	0.12	\$0.0	50.0	0.05	0.27	18
Libagon	Ý.	0 <		20	140	0.20	0.40	0.20	0.12	0.05	01.0	0.05	0.32	13
Liloan	Ž.A.	01 52	- - -	×	8	8	0.20	0.20	0.25	0.25	50.0	0.05	09.0	2
Limasawa	N.A.	30	12	23	0.53	0,40	0.80	0.20	0.13	0.10	0.20	0.05	0.48	9
Maasm (Capital)	7.V.	2	30) i	2,6	0.20	0,40	0.20	0.12	50.0	0.10	0.05	0.32	13
Macrohon	N.A.	77)	0.60	990	0.20	0.20	0.15	0.15	0.05	0.05	0.40	O
Mainbog	7.7.	3	,,,	,	0.27	0.20	8:	0.20	600	0.05	0.25	0.05	0.42	3 0
Padre Burgos	Y.Y.	, 0,		\$	0.97	08'0	080	0.20	0.24	0.20	0.20	0.05	0.69	
Pantuyan			 	- 5	0.27	0.20	0.40	0.20	0.07	50.0	0.10	0.05	0.27	17
Saint Bernard	÷ ,	9	21	12	0.30	090	09.0	0.20	80.0	0.15	0.15	0.05	0.43	
San Francisco	× × ×	2	9	3,	0.93	0.20	080	070	0.23	0.05	0.20	0.10	0.58	
משוויים (בשמיווישה)			2,5	-	0.50	0.20	09.0	0.20	0.13	0.05	0.15	0.05	0.38	10
San Kicardo	2.7			-	0.29	0.20	0.20	0.20	0.07	0.05	0.05	0.05	0.22	:- 6!
Silago	Y.Y.		,,,	35	27.0	0.40	09.0	0.40	0.19	0.10	0.15	0.10	0.54	S.
Sogod	N.A.	30			c v	020	0.0	0.00	0 15	500	500	0.05	0.30	\$1
Tomas Oppus	N.A.	22			ACO.	0.40	72.7	2	21.5	2000				
Provincial Total	N.A.	58	23	17	; ;,		. 4						: : : :	
Note:		13				:	:					,	::'	

(1) Scoring to Underserved and Unserved Percentage.

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

0.25 0.25 0.25 0.25 Weight

(Unit 1,000 Pesos)

Table 11.5.1 Available IRA for GOP-Assisted Level I Water and Rural Sanitation Project for Eligible Municipalities.

		ŀ					Description West	Worter Samoly				_					7	LOUIS SERVICES				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.1							Γ		٢	Sub-rotal	70.00	Rural Sanitation	nitation		E S	Number of Toilets	21	Prov.	Man.	Suproto
	10.70% 91	_	Nos. of	Not. of R. Water Supply	- Supply	Z	NO3. 01 LEV	EVEL PROHIES		_		1	10.00			L	F.	1.4.	10.1	1	4.03	Avail
Name of City or	Bry. in	1	Related	Class Related Allotment of IICA	ATITO:	Deep Shallo	Shallow	Spring	P	Avail.	Avail.	Avail	Related	Related Allotment of IKA								
Municipality	Rural		2	100	Š	Well.	Wells	DAV.	Related	8	¥	≱	Š	Prov	Muni.	XX.	Term. 7	Toilet	Related	red 18A	ş	Ş
	Area	1	;	rrow.		200					•	Ī		Ċ	٥				0	0	٥	0
412421	-	Sth								2	7	1			30,				\ \	421	\$60	131
Children	5	1					-	:		•	0	9		175	0,00		1	,				ľ
Bontoc	38	E C		1		\int				٦	c	٥		Ö	0	•		0	o	0		
Hinunangan	38	4								ľ	ŀ	Ī		C	0		l	0	0	ō	۰	2
Hinundayan	13	ųγ								ľ		1		c	ō	 	l	٥	٥	0	0	٥ اا
Libazon	12	φş	_		1					3	1			·c	o			٥	0	0 0	0	3
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Table 11.5.2 Available IRA for GOP-Assisted Urban Sanitation Project for Eligible Municipalities

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	Name of City or	Water Supply	Sani	Sanication	Total	
	Municipality	Rurai	Urban	Rural		
	Anahawan	ō	0	0	0	
-	Bontoc	0	0	1,117	1,117	1
	Hinunengan	0	0	0	0	ol
	Himmdayan	0	0	0	0	0
	Libason	0	0.	0	0	0
	Liloan	٥	0	0	0	0
	Limasawa	0	0	0	0	
	Maasin (Capital)	0	0	0	0	اه
	Macrohon	0	0	0	٥	0
	Malithog	0	0	965	969	6
	Padre Burgos	٥	o	0	0	0
	Pintrivan	0	0	0	0	0
	Saint Bemard	0	0	٥	0	
	San Francisco	0	0	0	0	0
	San Juan (Cabaltan)	0	0	378	378	×.
	San Ricardo	o	0	٥	C	0
	Cilago	0	O	0	0	0
	Spend	o	855	9/9	262,1	r*
	Tomas Oppus	0	0	O	C	cl
		0	855	2,765	5455	٠.

Table 11.5.4 FIRR for Level I Water Supply

Г					Date Andrew	-	3	% . &	Water Rate	Loans and	Cash inflow	No. 440c
Year	Nos. of Doep Nos. of Well Shallow W.	Nos. of hallow Well	Spring Devt	Nos. of Spring Devt Construction Cost	Replacement Cost	O&M Cost	Outflow	Households	Per Month Per Household	Subsidies		
Τ	c	c	c	c	0	0	0	0	185	0	0	0
	> ¢	, ;	, [21 903 215	0	0	21.903.215	810	185		1,798,200	(20,105,015)
	7 6	1 8) E	23 501 465	. 0	219.032	33,720,497	2,040	185		4,528,800	(769,191,697)
	3 6	3 6	3 6	33 501 465	• 0	554 047	34.055.512	3,270	185	*	7,259,400	(26,796,112)
_	7 6	3 5	3 5	24 634 640	, c	889.061	25.523.701	4,155	185		9,224,100	(16,299,601)
	\$	4	}	20,000	• •	1.135.408	1.135,408	4,155	185	,	9,224,100	8,088,692
					; • •	1.131.468	1.131.468	4,155	185		9,224,100	8,092,632
			-			1.131.468	1,131,468	4,155	185		9,224,100	8,092,632
				1	· c	1 131 468	1,131,468	4.155	185		9,224,100	8,092,632
					· c	1 131 468	1.131.468	4,155	185		9,224,100	8,092,632
					• 0	1.131.468	1,131,468	4,155	185		9,224,100	8,092,632
					3 308 100	1 131 468	4,439,568	4.155	185		9,224,100	4,784,532
	· ·				5 001 500	1.131.468	6,132,968	4,155	185		9,224,100	3,091,132
	_			-	5 001 500	1.131.468	6.132.968	4,155	185		9,224,100	3,091,132
	_				3 701 600	1.131.468	4.833.068	4,155	185		9,224,100	4,391,032
	· 		-			1.131.468	1131.468	4,155	185		9,224,100	8,092,632
	:					1.131.468	1,131,468	4,155	185		9,224,100	\$,092,632
	,				· c	1.131.468	1,131,468	4,155	185		9,224,100	8,092,632
9 6					· c	1.131.468	1,131,468	4,155	185		9,224,100	8,092,632
<u> </u>			-		. 0	1.131.468	1.131.468	4,155	185		9.224,100	8.092,632

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Table 11.6.1 Investment Progr	Program of GO	P-Assisted Level	I Water Supply	ram of GOP-Assisted Level I Water Supply and Sanitation Project	Project	(Unit: Pesos)
Category	Total Amount	1st year	2nd year	3rd year	4th year	5th year
A. Const. & Civil Works 1. Water Supply	0	0	0	0	0 2 2	0
2. Sanitation	4,188,720	0	837,744	1,256,616	1,256,616	837,744
3. Land Acquisition	0		0	>	3 .	D
B. Equip./Logistic Support	1,249,500	0	1,249,500	0	0	0
C. Consultancy Services	0	0	0	0	0	0
2. D/D and Const. Sv.	460,759	184,304	92,152	92,152	46,076	46,076
D. Instiutional Devt.						
1. Capacity Enhanc. Prog.	3,200,000	000,096	000,096	640,000	320,000	320,000
2. Commu. Manag. Prog.	96,930	29,079	29,079	19,386	669'6	6,693
3. Health & Hygiene Educ.	16,200	4,860	4,860	3,240	1,620	1.620
4. Water Quality Surveil.	6,300	1,890	1,890	1,260	630	630
5. NGO Assistance	10,800	3,240	3,240	2,160	1,080	1,080
6. Administrative Support	1,200,000	360,000	360,000	240,000	120,000	120,000
E. Physical Contingency	1,042,921	154,337	353,846	225,481	175,571	133,684
(10% of sub-total A+B+C+D)						- Miles I William III
Total (A+B+C+D+E+F)	11,472,130	1,697,710	3,892,311	2,480,295	1.931,286	1,470,527
F. Others				000		0
1. Price Contingency 2. Value Added Tax (VAT)	3,133,648	10,128	1,065,197	14,796	11,521	8,772
Grand Total	14,674,216	2,171,573	4,978,728	3.172,592	2,470,345	1.880.979

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O&M Cost for GOP Assisted Level I Water Supply Project

Table 11.6.2 O&M Cost for Level I Facilities

	Deep Well	Shallow Well	Spring Dev't
Nos, of Facilities to be Constructed	95	109	66
Nos. of HHs to be Served	1,425	1,635	990
Reconstruction Cost (Peso)	1. 1.	1	
Unit Cost	546,285	82,400	747,000
Ttl. Reconst. Cost	51,897,075	8,981,600	
Til. Reconst. Cost/year	2,594,854	898,160	
Cost per HH/year	1,821	549	· · · · · · · · · · · · · · · · · · ·
Rehabilitation Cost (Peso)			
Unit Cost	78,700		
Ttl. Rehab. Cost	7,476,500		
Ttl. Rehab. Cost/year	747,650		1
Cost per HH/year	525		j
Recurrent Cost for O&M (Peso)			
Cost per HH/year	100	50	50
O&M Cost Total (Peso)			
Cost per HH/year	2,446	599	50

Note: 1) Reconstruction of deep and shallow wells shall be conducted every 20 and 10 years, respectively.

Spring development is excluded due to more than 20 years facility life.

2) Rehabilitation is applicable to deep wells every 10 years.

Table 11.6.3 O&M Cost per HH/month by Facility and Proportion toMonthly Family Income

	Deep Well	Shallow Well	Spring Dev't
O&M Cost per HH/month	204	50	4
Proportion (Mean)	2.7%	0.7%	0.1%
Proportion (Median)	4.2%	1.0%	0.1%

Table 11.6.4 Family Income

(Unit: Pesos)

Ann	ual ¹⁾	Mont	thly ²⁾
Mean	Median	Mean	Median
45,503	29,703	7,459	4,869

Note: 1) 1994 NSO Family Income and Expenditure Survey

2) Estimated value in 2004 applying 7% inflation rate/year

O&M Cost for GOP Assisted Sanitation Project

Table 11.6.5 O&M Cost for Rural Sanitation

(Unit: Pesos)

Nos. of Facilities	to be Constructed	Unit Constr	ruction Cost	Yearly O&M
Public Toilets	School Toilets	Public Toilets	School Toilets	Cost
0	13	358,400	233,500	151,775

Note: O&M cost includes the salaries of maintenance staff, cost of pumpng sludge from septic tanks, and rehabilitation cost, which is assumed to be equivalent to 5% of construction cost.

Table 11.6.6 O&M Cost for Urban Sanitation

(Unit: Pesos)

Nos. of Facilities	to be Constructed	Unit Constr	uction Cost	Yearly O&M
Public Toilets	School Toilets	Public Toilets	School Toilets	Cost
6	2	358,400	233,500	130,870

12. MONITORING FOR MEDIUM-TERM DEVELOPMENT PLAN

12.4 Evaluation of Plan Implementation and Updating the PW4SP

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

)

Provincial Water & Sanitation Monitoring System
Annual Sector Performance Summary Report
Period Covered: to

Service Coverage

		LAST	LAST YEAR			THIS	THIS YEAR	
2	:	Persons	Persons	Persons		Persons with Safe	Persons	Persons
Municipality (1)	Population	Water &	Safe	Santary	Population	Water &	Safe	Sanitary
	6	Sanitary	Water	Toilets	9	Sanitary	Water	Toilets
		Toilets	Saly.	Š		Toilets	Şî o	Š
		(3)	(4)	(3)		6	(8)	(6)
						:		
0.								
1.								
12.								
3.			-					
14.								
5.								
Total								
% Served								
		Targets						

II. Sources & Uses of Capital Development Funds

					Ω	Uses of Funds			
Source of Fund (1)	Budget for Water Supply & Sanitation (2)	Actual Disbursement (3)	Water Source Development (4)	Water Supply Transmission (5)	Water Storage/ Treatment & Distribution (6)	Houschold Toilets (7)	School Toilers (8)	Public Toilers (9)	Others (1.0)
A. Local Funds. Provincial Funds Municipal Funds A. B. C. D. E.									
G. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.									
B. National Funds DPWH DOH LWUA								:	
SUB-TOTAL C. External Funds									
0 0 0 0 0 2 2 2									
SUB-TOTAL TOTAL									

III. School Sanitation (Source, DECS)

)

No. of Functioning Toilet Units (4) (5)						
Water Supply Adequate ? (Y/N) (3)						
No. of Students Enrolled (2)			:			
School (Location) (1)						

IV. Incidence of Diarrhea (Source IPHO)

Month (1)	Last Year (2)	This Year (3)
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November	**	
December		

Vi	during the reporting period, indi	 	 _	d for	
			_		
VI	. Unit Cost Summary : Based on p	 	 _	d for	

V. Water Resources: Report any major changes in the availability and quality

of water in the province. Attach map.

9

Municipality of Provincial Water & Sanitation Monitoring System

Annual Sector Performance Summary Report
Period Covered:

I. Service Coverage

	Persons with Santury Toilets Only (9)																	
		-	_	1	:		_											
EAR	Persons with Safe Water Only (8)																	
THIS YEAR	Persons with Safe Water & Sanitary Toilets (7)			 		-				1				1				
	Population (6)													- 2				
	Persons with Sanitary Toilets Only (5)					***												
EAR	Persons with Safe Water Only (4)					,												
LAST YEAR	Persons with Safe Water & Sanitary Toilets (3)																	
	Population (2)																	
	Name of Barangay (1)	.;		5.	6.	,	8	6	10.	11.	12.	13.	14.	15.	16.	17.	Total	% Served

II. Sources & Uses of Capital Development Funds.

					Uses	Uses of Funds			
Source of Funds (1)	Budget (2)	Actual Disbutsement (3)	Water Source Development (4)	Water Supply Transmission (5)	Water Storage/ Treatment & Distribution (6)	Household Toilets (7)	School Toilets (8)	Public Toilets (9)	Others (10)
Municipal Funds									
Barangay Funds									
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