

### 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)

Unit: P 1,000

Name of Municipality	Urban Water Supply Level III	Rural Water Supply										Level I Rehabilitation	Total	Grand Total
		New System					Level I							
		Level II		Deep Well		Shallow Well	Spring Dev.	Subtotal						
		40 m	80 m	120 m	40 m				80 m					
Anahawan	2,479		5,710				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		
Himundayan	4,563		571				1,494		2,065	8	2,073	6,636		
Libagon							1,494		1,494		1,494	1,494		
Liloan			571						571	8	579	579		
Limasawa	1,220		1,142			1,730	747		3,619	181	3,800	5,020		
Maasin (Capital)	27,202		21,128			330	10,458		31,915	323	32,238	59,440		
Macrohon			2,284			494	5,229		8,007	79	8,086	8,086		
Malitbog	3,096		571			1,648	4,482		6,701	165	6,866	9,962		
Padre Burgos			4,568			2,472	3,735		10,775	299	11,074	11,074		
Pintuyan	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	90	3,580		
San Ricardo	589											589		
Silago			2,284			577	747		3,608	87	3,694	3,694		
Sogod	10,042		1,713			1,318	2,241		5,272	150	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 (PW4SP)	62,350											62,350		

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

Unit: P 1,000

Name of Municipality	Urban Water Supply Level III	Rural Water Supply										Level I Rehabilitation	Total	Grand Total
		New System					Subtotal							
		Level I												
		Deep Well		Shallow Well	Spring Dev.									
		40 m	80 m			120 m								
Anahawan	2,663						2,241	2,241			2,241	2,241	4,904	
Bontoc	8,045		13,133			165	3,735	17,033		181	17,214	25,260		
Hinunangan	1,265		1,713			659		2,372		24	2,396	3,661		
Hinundayan	14,104						747	747			747	14,851		
Libagon	4,625		1,142							16	1,158	5,783		
Liloan	15,920											15,920		
Limasawa	4,973					247	3,735	3,982			3,982	8,955		
Maasin (Capital)	74,207				6,727	82	8,217	15,026		71	15,097	89,304		
Macrohon	20,895		1,142				2,241	3,383		16	3,399	24,294		
Malibog	8,303		13,704			824	3,735	18,263		189	18,452	26,755		
Padre Burgos	4,290						6,723	6,723			6,723	11,013		
Pintuyan	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														
Silago	6,750						1,494	1,494			1,494	8,244		
Sogod	15,888			10,464	742	2,988		14,194		110	14,304	30,192		
Tomas Oppus	5,025						2,241	2,241			2,241	7,266		
Provincial Total	204,210	1,973	34,832	17,191	7,251	38,844		100,091		700	100,792	305,002		

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

Unit: P 1,000

Name of Municipality	Urban Sanitation						Rural Sanitation					
	Household Toilets			Public School Toilets	Public Toilets	Total Construction Cost	Household Toilets			Public School Toilets	Total Construction Cost	Total Public Investment Cost
	Flush	Pour Flush	VIP/Dry				Flush	Pour Flush	VIP/Dry			
				Sub-total of Public Investment							Sub-total of Public Investment	
				Construction Cost							Construction Cost	
Anahawan												
Bomboc					368	368		6,364		934	7,298	1,252
Hinunangan	184	1,273		64	368	1,825						
Hinundayan	1,334	2,501		125		3,835						
Libagon												
Lillean	1,472				368	1,840						
Limasawa	575					575		44			44	44
Maasin (Capital)	14,831	44,903		2,245	368	62,021				934	934	934
Macorhon	2,921	178		9		3,099		552			1,144	1,144
Malibog	552	1,510		75	368	2,430		3,286		467	3,753	631
Padre Burgos	782	4,470		223		5,252				234	234	234
Pintuyan	460	562		28		1,022						
Saint Bernard	368	3,271		164	368	4,007		4,011			4,011	201
San Francisco	414	518		26		932						
San Juan (Cabalian)	575	3,360		168		3,935		5,506		234	5,739	509
San Ricardo	322	89		4		411						
Silago	1,012					1,012						
Sogod	3,979	3,865		443	368	13,680		8,747		201	9,792	1,138
Tomas Oppus												
Provincial Total (w/ADB-Assisted Proj.)	29,831	71,499		3,575	2,579	106,244	897	28,549		1,427	33,416	5,397
Provincial Total (PW4SP)	29,831	71,499		3,575	2,335	103,665	897	1,909		162	5,141	2,497

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

Unit: P 1,000

Name of Municipality	Urban Sanitation						Rural Sanitation					
	Household Toilets			Public School Toilets	Public Toilets	Total Construction Cost	Total Public Investment Cost	Urban Sewerage	Household Toilets			Public School Toilets
	Flush	Pour Flush	VIP/Dry						Flush	Pour Flush	VIP/Dry	
	Sub-total of Construction Cost	Sub-total of Public Investment							Sub-total of Construction Cost	Sub-total of Public Investment		
Anahawan	7,268					7,268						701
Bontoc	7,797			234		8,031	234		19,596	3,093		6,071
Hinunangan	4,485					4,485			20,654			5,137
Hinundayan	12,949					12,949			6,141			1,401
Libagon	3,749					3,749			9,085			2,335
Liloan	10,258					10,258			7,843			2,802
Limasawa	3,243					3,243			4,011			1,168
Maasin (Capital)	96,301			1,168		97,469	1,168	152,877				5,137
Macorohan	15,180					15,180			13,271	710		3,503
Malibog	9,223					9,223			19,995			4,203
Padre Burgos	7,222					7,222			5,129			1,401
Pinuyan	2,691					2,691	368		8,119	977		1,868
Saint Bernard	10,741					10,741			18,262	3,448		4,437
San Francisco	4,646					4,646			444			2,079
San Juan (Cabalian)	8,464					8,464			3,878			2,102
San Ricardo						368	368					1,401
Silago	5,244					5,244			8,119			2,102
Sogod	27,255					27,255		43,107	19,297	2,279		4,904
Tomas Oppus	4,853					4,853			3,522			3,036
Provincial Total	241,569			1,401	737	243,707	2,138	195,983	135,516	42,338		55,340
									177,874			233,213
												57,457

### 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

Each 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/cm<sup>2</sup> 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 5m<sup>3</sup> 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.

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: Peso)

Item	Unit	Unit Cost	Q'ty	Amount
<b>1. Building</b>				
New Building	m <sup>2</sup>	15,000	57	855,000
<b>2. Instruments</b>				
Turbidity meter	set	37,500	1	37,500
Color meter	set	10,500	1	10,500
pH/Residual chlorine checker	set	16,000	1	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
<b>Sub-total</b>				<b>608,700</b>
<b>3. Accessories</b>				
Sink	LS			
Working table	LS			
Shelf	LS			
Office desk	LS			
Chair	LS			
<b>Sub-total</b>				<b>65,000</b>
<b>4. Glassware/Chemicals</b>				
Glassware/Chemicals	LS			110,000
<b>Total</b>				<b>1,638,700</b>

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
<b>1. Instruments</b>				
Turbidity meter	set	37,500	1	37,500
Color meter	set	10,500	1	10,500
pH/Residual chlorine checker	set	16,000	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
<b>Sub-total</b>				<b>422,900</b>
<b>2. Glassware/Chemicals</b>				
Glassware/Chemicals	LS			55,000
<b>Total</b>				<b>477,900</b>

Note: LS - Lump Sum

Source: DOH standard price in 1993

Unit Cost: Adjusted to 1998 Price Level





## 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
Urban Water Supply	Level III System						
	Feasibility Study and Detail Design	50	50	0	0	0	100
	Construction & Supervision	0	20	30	30	20	100
	Institutional Development	30	20	20	20	10	100
Rural Water Supply	Level I Facility						
	Detail Design	50	50	0	0	0	100
	Construction & Supervision	0	20	30	30	20	100
	Institutional Development	30	30	20	10	10	100
	Level II System						
	Detail Design	100	0	0	0	0	100
	Construction & Supervision	50	50	0	0	0	100
	Institutional Development	50	50	0	0	0	100
Sanitation	Urban Household Toilet	12	22	22	22	22	100
	Rural Household Toilet	12	22	22	22	22	100
	Public School Toilet	12	22	22	22	22	100
	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.
- 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

Name of Municipality	Evaluation Factor				Score by Sub-Sector				Weighted Score by Sub-Sector				Synthetic Investment Need Ranking	
	(% of Underserved and Unserved Population or Households)													
	Urban Water Supply	Rural Water Supply	Urban Sanitation	Rural Sanitation	Urban Water Supply	Rural Water Supply	Urban Sanitation	Rural Sanitation	Urban Water Supply	Rural Water Supply	Urban Sanitation	Rural Sanitation		Total Weighted Score
Anahawan	N.A.	6	4	14	0.70	0.20	0.20	0.20	0.18	0.05	0.05	0.05	0.33	12
Bontoc	N.A.	39	10	25	0.73	0.40	1.00	0.20	0.18	0.10	0.25	0.05	0.53	3
Hinunangan	N.A.	17	15	7	0.30	0.20	0.40	0.20	0.08	0.05	0.10	0.05	0.28	16
Hinundayan	N.A.	3	12	3	0.53	0.20	0.40	0.20	0.13	0.05	0.10	0.05	0.33	11
Libugon	N.A.	16	4	10	0.46	0.20	0.20	0.20	0.12	0.05	0.05	0.05	0.27	18
Lilean	N.A.	10	13	9	0.46	0.20	0.40	0.20	0.12	0.05	0.10	0.05	0.32	13
Limasawa	N.A.	67	8	8	1.00	1.00	0.20	0.20	0.25	0.25	0.05	0.05	0.60	2
Maasin (Capital)	N.A.	39	33	23	0.53	0.40	0.80	0.20	0.13	0.10	0.20	0.05	0.48	6
Macarhon	N.A.	21	20	16	0.46	0.20	0.40	0.20	0.12	0.05	0.10	0.05	0.32	13
Malibog	N.A.	46	8	16	0.60	0.60	0.20	0.20	0.15	0.15	0.05	0.05	0.40	9
Padre Burgos	N.A.	17	62	2	0.27	0.20	1.00	0.20	0.07	0.05	0.25	0.05	0.42	8
Pintuyan	N.A.	59	31	5	0.97	0.30	0.80	0.20	0.24	0.20	0.20	0.05	0.69	1
Saint Bernard	N.A.	20	15	15	0.27	0.20	0.40	0.20	0.07	0.05	0.10	0.05	0.27	17
San Francisco	N.A.	49	21	12	0.30	0.60	0.60	0.20	0.08	0.15	0.15	0.05	0.43	7
San Juan (Caballan)	N.A.	29	40	37	0.93	0.20	0.80	0.40	0.23	0.05	0.20	0.10	0.58	3
San Ricardo	N.A.	21	23	2	0.50	0.20	0.60	0.20	0.13	0.05	0.15	0.05	0.38	10
Siago	N.A.	7	7	3	0.29	0.20	0.20	0.20	0.07	0.05	0.05	0.05	0.22	19
Sogod	N.A.	36	22	38	0.74	0.40	0.60	0.40	0.19	0.10	0.15	0.10	0.54	5
Tomas Oppus	N.A.	22	2	6	0.59	0.20	0.20	0.20	0.15	0.05	0.05	0.05	0.30	15
Provincial Total	N.A.	29	23	17										

Note:

(1) Scoring to Underserved and Unserved Percentage.

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

Score	Range of Underserved and Unserved Percentage				0.25	0.25	0.25	Allocated Weight
1.0	61 < %	41 < %	61 < %	61 < %				
0.8	51 < % < 60	31 < % < 40	51 < % < 60	51 < % < 60				
0.6	41 < % < 50	21 < % < 30	41 < % < 50	41 < % < 50				
0.4	31 < % < 40	11 < % < 20	31 < % < 40	31 < % < 40				
0.2	% < 30	% < 10	% < 30	% < 30				

(Units: 1,000 Pesos)

Table 11.5.4 FIRR for Level I Water Supply

Year	Nos. of Deep Well	Nos. of Shallow Well	Spring Dev't	Construction Cost	Rehab. and Replacement Cost	O & M Cost	Cash Outflow	No. of Households	Water Rate Per Month Per Household	Loans and Subsidies	Cash Inflow	Net Value
1	0	0	0	0	0	0	0	0	185	0	0	0
2	19	22	13	21,903,215	0	0	21,903,215	810	185	0	1,798,200	(20,105,015)
3	29	33	20	33,501,465	0	219,032	33,720,497	2,040	185	0	4,528,800	(29,191,697)
4	29	33	20	33,501,465	0	554,047	34,055,512	3,270	185	0	7,259,400	(26,796,112)
5	24	22	13	24,634,640	0	889,061	25,523,701	4,155	185	0	9,224,100	(16,299,601)
6					0	1,135,408	1,135,408	4,155	185	0	9,224,100	8,088,692
7					0	1,131,468	1,131,468	4,155	185	0	9,224,100	8,092,632
8					0	1,131,468	1,131,468	4,155	185	0	9,224,100	8,092,632
9					0	1,131,468	1,131,468	4,155	185	0	9,224,100	8,092,632
10					0	1,131,468	1,131,468	4,155	185	0	9,224,100	8,092,632
11					0	1,131,468	1,131,468	4,155	185	0	9,224,100	8,092,632
12					3,308,100	1,131,468	4,439,568	4,155	185	0	9,224,100	4,784,532
13					5,001,500	1,131,468	6,132,968	4,155	185	0	9,224,100	3,091,132
14					5,001,500	1,131,468	6,132,968	4,155	185	0	9,224,100	3,091,132
15					3,701,600	1,131,468	4,833,068	4,155	185	0	9,224,100	4,391,032
16					0	1,131,468	1,131,468	4,155	185	0	9,224,100	8,092,632
17					0	1,131,468	1,131,468	4,155	185	0	9,224,100	8,092,632
18					0	1,131,468	1,131,468	4,155	185	0	9,224,100	8,092,632
19					0	1,131,468	1,131,468	4,155	185	0	9,224,100	8,092,632
20					0	1,131,468	1,131,468	4,155	185	0	9,224,100	8,092,632

Discount rate for NPV = 0.09 per year

TOTAL 11,980,415  
FIRR 1.3%  
NPV 3,476,876

Table 11.6.1 Investment Program of GOP-Assisted Level I Water Supply and Sanitation Project (Unit: Pesos)

Category	Total Amount	1st year	2nd year	3rd year	4th year	5th year
<b>A. Const. &amp; Civil Works</b>						
1. Water Supply	0	0	0	0	0	0
2. Sanitation	4,188,720	0	837,744	1,256,616	1,256,616	837,744
3. Land Acquisition	0	0	0	0	0	0
<b>B. Equip./Logistic Support</b>	1,249,500	0	1,249,500	0	0	0
<b>C. Consultancy Services</b>						
1. Hydrogeological Survey	0	0	0	0	0	0
2. D/D and Const. Sv.	460,759	184,304	92,152	92,152	46,076	46,076
<b>D. Institutional Devt.</b>						
1. Capacity Enhanc. Prog.	3,200,000	960,000	960,000	640,000	320,000	320,000
2. Commu. Manag. Prog.	96,930	29,079	29,079	19,386	9,693	9,693
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
<b>E. Physical Contingency</b> (10% of sub-total A+B+C+D)	1,042,921	154,337	353,846	225,481	175,571	133,684
<b>Total (A+B+C+D+E+F)</b>	11,472,130	1,697,710	3,892,311	2,480,295	1,931,286	1,470,527
<b>F. Others</b>						
1. Price Contingency	3,133,648	463,735	1,063,197	677,500	527,537	401,679
2. Value Added Tax (VAT)	68,437	10,128	23,220	14,796	11,521	8,772
<b>Grand Total</b>	14,674,216	2,171,573	4,978,728	3,172,592	2,470,345	1,880,979

Note: Item A includes equity of users.

## 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
<b>Reconstruction Cost (Peso)</b>			
Unit Cost	546,285	82,400	747,000
Ttl. Reconst. Cost	51,897,075	8,981,600	
Ttl. Reconst. Cost/year	2,594,854	898,160	
Cost per HH/year	1,821	549	
<b>Rehabilitation Cost (Peso)</b>			
Unit Cost	78,700		
Ttl. Rehab. Cost	7,476,500		
Ttl. Rehab. Cost/year	747,650		
Cost per HH/year	525		
<b>Recurrent Cost for O&amp;M (Peso)</b>			
Cost per HH/year	100	50	50
<b>O&amp;M Cost Total (Peso)</b>			
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 to Monthly 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)

Annual <sup>1)</sup>		Monthly <sup>2)</sup>	
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 Construction Cost		Yearly O&M Cost
Public Toilets	School Toilets	Public Toilets	School Toilets	
0	13	358,400	233,500	151,775

Note: O&M cost includes the salaries of maintenance staff, cost of pumping 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 Construction Cost		Yearly O&M Cost
Public Toilets	School Toilets	Public Toilets	School Toilets	
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)

Form P-1

Province of \_\_\_\_\_  
 Provincial Water & Sanitation Monitoring System  
 Annual Sector Performance Summary Report  
 Period Covered : \_\_\_\_\_ to \_\_\_\_\_

#### I. Service Coverage

Municipality (1)	LAST YEAR				THIS YEAR			
	Population (2)	Persons with Safe Water & Sanitary Toilets (3)	Persons with Safe Water Only (4)	Persons with Sanitary Toilets Only (5)	Population (6)	Persons with Safe Water & Sanitary Toilets (7)	Persons with Safe Water Only (8)	Persons with Sanitary Toilets Only (9)
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								
Total								
% Served								
Targets								

## II. Sources & Uses of Capital Development Funds

Source of Fund (1)	Budget for Water Supply & Sanitation (2)	Actual Disbursement (3)	Uses of Funds						
			Water Source Development (4)	Water Supply Transmission (5)	Water Storage/ Treatment & Distribution (6)	Household Toilets (7)	School Toilets (8)	Public Toilets (9)	Others (10)
A. Local Funds.									
Provincial Funds									
Municipal Funds									
A.									
B.									
C.									
D.									
E.									
F.									
G.									
H.									
I.									
J.									
SUB-TOTAL									
B. National Funds									
DPWH									
DOH									
LWUA									
SUB-TOTAL									
C. External Funds									
NGO									
NGO									
NGO									
SUB-TOTAL									
TOTAL									

[illegible]

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

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

VI. Unit Cost Summary : Based on projects actually implemented and paid for during the reporting period, indicate the following average unit costs

1. Shallow Well (w/o hand pump) = \_\_\_\_\_ / Meter Depth
2. Deep Well (w/o pump) = \_\_\_\_\_ / Meter Depth
3. Pipeline = \_\_\_\_\_ / meter
4. Storage Tanks =
5. Others,

Municipality of \_\_\_\_\_  
 Provincial Water & Sanitation Monitoring System

Annual Sector Performance Summary Report

Period Covered : \_\_\_\_\_ to \_\_\_\_\_

I. Service Coverage

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

II. Sources & Uses of Capital Development Funds.

Source of Funds (1)	Budget (2)	Actual Disbursement (3)	Uses of Funds						Others (10)
			Water Source Development (4)	Water Supply Transmission (5)	Water Storage/ Treatment & Distribution (6)	Household Toilets (7)	School Toilets (8)	Public Toilets (9)	
Municipal Funds									
Barangay Funds									
A.									
B.									
C.									
D.									
E.									
F.									
G.									
H.									
I.									
J.									
K.									
L.									
M.									
N.									
O.									
P.									
Q.									
R.									
S.									
T.									
U.									
V.									
W.									
SUB-TOTAL									
NGO									
NGO									
NGO									
SUB-TOTAL									
TOTAL									









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