10 COST ESTIMATES FOR FUTURE SECTOR DEVELOPMENT

10.2 Assumption for Cost Estimates

10.2.1 Unit Construction Cost

(1) Calculation method

The base information in previous PW4SP, such as bill of quantities and unit cost of respective component facilities was fully utilized, which was referred to the standards of relevant sector agencies. Escalation rates experienced between 1995 and 1997 in terms of major construction materials and equipment rental were studied using NSO statistics (wholesale price index). Market prices of these items were also canvassed to compare with calculated prices in 1997 from those in 1995 in application of the escalation rates.

In general, escalated prices meet canvassed prices in most of the materials. Escalation rates between 1995 and 1997 were employed in round figures. Some of them (water closet, etc.) were, however, replaced by current price due to considerable increase in the last two years.

The Table 10.2.1 shows the prices of the major materials by facility.

Table 10.2.1 Price of Major Materials by Facility

		W	Water Supply	vlav	~ N	Sanitanon		4	roncerron	rrujection by major materials	111ALCI 14	2	Callyabs	Canvasseu/conec	Remarks
								NSO wh	NSO wholesale price index	ice index	Pr	Price	ted price	rice	
		L-I	L-II	III-III	ST/PT	f lush type	Pit	1005	1007	Escalati	1995	(1) 1997	(2) NPWH	(3) CTA	Compared with (2), (3)
1		*	*	*	*	*	*	9115		0.050			-+		
1. Va	1. Sand, stone, gravel		-					2		>	304	335	055	350	Almost same with
	Sand	-													(2),(3)
	Gravel										C85	474	418	1	
0 17	. Cement	*	*	*	*	*	*	197.4	200.1	0.007	117	119	126	105	- op -
3. Fu	3. Fuel and Lubricant	*		*				601.6	694.0	0.074	1,100	1,269	1,306		- op -
4. W	4. Metal pipe	*	¥	*				208.7	211.5	0.007					Price of casing is
	100m/m x 3m, casing		· .			-			1		2,625	2,660	2,763		almost same with (2), screen is 20% lower
10	100m/m x 3m, screen	.'	· .								4,313	4,371	5,291		than (2)
· .	5. PVC pipe	*	*	*	*			199.2	221.1	0.054	· .				Price of PVC pipe is almost same with (2)
	63m/m pipe w/socket					•	•				813	902	882		and/or 25% higher than
	1 1/2" elbow										13	14	•	32 ((3)
6. Rt	6. Reinforcing steel 12m/m x 6m		*	*	*	*	*	201.4	207.4	0.015	68 40	0/ 50		07 70	Same with (3)
	10m/m x 6m								-		÷	20		F	
7. Lu	. Lumber				*	*	*	268.5	277.4	0.016					
8. Paint En:	uint Enamel, QDE				*			128.0	132.8	0.019	266	276		275	Same with (3)
W.	9. Machinery and equipm	*		*				254.8	254.8	0.000				- -	

ST: School toilet, PT: Public toilet, Flush type: Flush water sealed w/septic tank and Pour flush w/ double latrine, CIA: Construction Industry Authority of the Philippines

December How			Unit	ost: Pese
Description	Quantity		Cost	Cost
A. Mobilization/Demobilization/Site Preparation		L.S.		15,00
B. Drilling of Well & Installation of Steel Casing/Screen				
1. Materials				
(1) 100mm x 3m Steel Casing with coupling	1 - 11	pcs.	2,894	31,8
(2) 100mm x 3m Steel Casing with one end closed	1	pc.	2,997	2,9
(3) 100mm x 3m Low Carbon Steel Screen	2	pcs.	4,755	9,5
(4) Casing Centralizer	2	set	1,925	3,8
2. Labor, Fuel, Lubricant and others			. 1	
Well Drilling for 40 m depth at 200mm borehole	40	m	2,460	98,4
3. Borehole Logging	1	no	5,000	5,0
4. Freight Cost (11% of Materials)		L.S.		5,3
Sub-Total of I	в			156,8
C. Well Development and Pumping Test				
Well Development	12	hr.	2,353	28,2
Pumping Test	6	hr.	1,472	8,8
1 O TT 1, 1				0,0
Sub-Total of C				37,0
D. Gravel Packing, Installation of Handpump and				
Construction of Platform	4.1	н. Т		
1. Materials				
(1) Improved Deep Well Cylinder Pump (Malawi Type)	1	set	9,922	9,9
(2) 63mm x 6m Riser Pipe and Pump Rod	6		1,880	11,2
(3) #10 Sieved Gravel	0.7		959	6
(4) Coarse Sand			335	3
(4) Coarse Sand (5) Cement for Sanitary Seal	4	cu.m	128	5
	4	bags	120	ر
(6) Pump Base and Platform		1	120	E
1) Cement	. 4	1 <u> </u>	128 424	5
2) Gravel				
3) Sand		cu.m	335	- 3
4) Plywood (1,200mm x 2,400mm x 6mm)		pc.	275	2
5) Form Lumber (50mm x 75mm x 1,800mm)	0	pcs.		2
6) Nail		kg.	35	26.0
Sub-Total of D-	1			25,0
2. Labor (40% of D-1.) 3. Excisite Cost (110(of Materials)	- I .	1.0		10,0
3. Freight Cost (11% of Materials)	a an air is a	L.S.		2,7
Sub-Total of	D			37,7
E. Indirect Cost Profit (10% of A, B, C & D)	1	1		24,6
Overhead Expense (13% of A,B,C & D)		1		32,0
VAT (10% of Labor, Profit & Overhead Expense)		· ·		16,5
Sub-Total of	Е	1.		41,1
		+	<u> </u>	
Total of Construction Cost (A+B+C+D+E)	· · · · ·		· · · ·	259,6
F. Estimated Government Expenses				·
1. Preliminary & Detailed Engineering Cost		L.S.		3,3
2. Construction Supervision	· ·	L.S.		2,2
3. Water Quality Analysis		L.S.		1,2
5. water Quanty Anarysis Sub-Total of	F			6,7
	-			
GRAND TOTAL		1	1	266,4
SAY		- ·	1.	266,

Table 10.2.2 (a) Unit Cost of Level I (Gravel Packed Deep Well - 40m Depth) _

Note: L.S. - Lump Sum

Source: DPWH standard price in 1994, LWUA Water Supply Feasibility Study Methodlogy Manual 1996 10 - 3 Unit Cost: Adjusted to 1997 Price Level

.

	Description	Quantity	Unit	Unit Cost	Cost
A.	Mobilization/Demobilization		L.S.		15,00
B.	Drilling of Well & Installation of Steel Casing/Screen				
	Materials				
	(1) 100mm x 3m Steel Casing with coupling	- n	pcs.	2,894	31,83
	(2) 100mm x 3m Steel Casing with one end closed	i i	pc.	2,997	2,99
	(3) 100mm x 3m Low Carbon Steel Screen	2	pcs.	4,755	9,51
	(4) Casing Centralizer	0	set	1,925	
2.	Labor, Fuel, Lubricant and others		:		· ·
	Well Drilling for 40 m depth at 150mm borehole	40	m	1,534	61,36
3.	Borehole Logging	1	no	5,000	5,00
4,	Freight Cost (11% of Materials)		L.S.		4,87
					, - · ·
	Sub-Total of B				115,57
0	SV-3175 1				
C.	Well Development and Pumping Test Well Development		b -	1 2 5 2	1
	Pumping Test	6 6	hr.	2,353	14,11
	r amburg 1.291		hr.	1,472	8,83
	Sub-Total of C				22,95
					44,70
D,	Gravel Packing, Installation of Handpump and		·····	· · ·	
	Construction of Platform				
1.	Materials				1 - 1 - 4
	(1) Improved Deep Well Cylinder Pump (Malawi Type)	1	set	9,922	9,92
	(2) 63mm x 6m Riser Pipeand Pump Rod	6	pcs.	1,880	11,28
	(3) #10 Sieved Gravel	0	cu.m	959	11 19
	(4) Coarse Sand	1	cu.m	335	- 33
	(5) Cement for Sanitary Seal	3	bags	128	38
	(6) Pump Base and Platform		_		1. j.
	1) Cement	4	bags	128	51
	2) Gravel	2	cu.m	424	84
	3) Sand	1	cu.m	335	3
	4) Plywood (1,200mm x 2,400mm x 6mm)	1	pc.	275	27
• •	5) Form Lumber (50mm x 75mm x 1,800mm)	6	pcs.	49	29
	6) Nail	1	kg.	35	
1	Sub-Total of D-1				24,2
	Labor (40% of D-1.)	1			9,6
3.	Freight Cost (11% of Materials)	1	L.S.		2,60
					. 1
	Sub-Total of D				36,5
E.	Indirect Cost				
	Profit (10% of A, B, C & D)	1 1 1 1		l te sé e	19,0
	Overhead Expense (13% of A,B,C & D)	· ·			24,7
	VAT (10% of Labor, Profit & Overhead Expense)		1.		11,4
	Sub-Total of E	<u> </u>			30,4
	Total of Construction Cost (A+B+C+D+E)				206,4
			<u> </u>		
	Estimated Government Expenses	a la serie de la s			
	. Preliminary & Detailed Engineering Cost		L.S.	1 · ·	3,3
	. Construction Supervision	Mark A	L.S.		2,2
3	. Water Quality Analysis	1.1.1.1	L.S.	1	1,2
	Sub-Total of I		1.1		6,7
	CD AND TOTAL				
	GRAND TOTAL SAY	1	1	1 10 10	213,2 213,2

Table 10.2.2 (b)	Unit Cost of Level I (Natural Gravel packed Deep Well - 40m Depth)

Source: DPWH standard price in 1994, LWUA Water Supply Feasibility Study Methodlogy Manual 1996 Unit Cost: Adjusted to 1997 Price Level

	Description	Quantity	Unit	Unit	Cost
A.	Mobilization/Demobilization/Site Preparation		L.S.	Cost	15,0
					10,0
	Drilling of Well & Installation of Steel Casing/Screen				
1.	Materials				
	(1) 100mm x 3m Steel Casing with coupling	24	pcs.	2,894	69,4
	(2) 100mm x 3m Steel Casing with one end closed	1	pc.	2,997	2,9
	(3) 100mm x 3m Low Carbon Steel Screen	2	pcs.	4,755	. 9,5
2	(4) Casing Centralizer	2	set	1,925	3,8
Ζ,	Labor, Fuel, Lubricant and others	,			•
	Well Drilling for 40 m depth at 200mm borchole	80	m	2,460	196,8
	Borchole Logging	1	no	5,000	5,0
-4.	Freight Cost (11% of Materials)		L.S.		9,4
	Sub-Total of B				297,0
C.	Well Development and Pumping Test				
2	Well Development	12	hr.	2,353	28,2
	Pumping Test	6	hr.	1,472	20,2 8,8
			a	·,-/2	0,0
	Sub-Total of C				37,0
D.	Gravel Packing, Installation of Handpump and		i,		
	Construction of Platform		•	۰ ،	
1.	Materials				
	(1) Improved Deep Well Cylinder Pump (Malawi Type)	$1^{11} \cdots 1^{11}$	set	9,922	9,9
	(2) 63mm x 6m Riser Pipe and Pump Rod	12	pcs.	1,880	22,5
- ÷	(3) #10 Sieved Gravel	1.6	cu.m	959	1,5
	(4) Coarse Sand	. 1	cu.m	335	3
	(5) Cement for Sanitary Seal	4	bags	128	5
•	(6) Pump Base and Platform				
	1) Cement	4	bags	128	5
	2) Gravel	2	cu.m	424	8
	3) Sand	1	cu.m	335	3
	4) Plywood (1,200mm x 2,400mm x 6mm)	1	pc.	275	2
	5) Form Lumber (50mm x 75mm x 1,800mm)	. 6	pcs.	49	2
	6) Nail	1	kg.	35	
	Sub-Total of D-1				37,1
2.	Labor (40% of D-1.)				14,8
	Freight Cost (11% of Materials)		L.S.		4,0
	· · · · · · · · · · · · · · · · · · ·	1	1.5		.,0
	Sub-Total of D				56,1
E.	Indirect Cost				······
14 204	Profit (10% of A, B, C & D)		1.1		40,5
	Overhead Expense (13% of A,B,C & D)				52,6
	VAT (10% of Labor, Profit & Overhead Expense)		1		30,4
· .	Sub-Total of E				71,0
	Total of Construction Cost (A+B+C+D+E)	ale i le			448,0
F.	Estimated Government Expenses				
	Preliminary & Detailed Engineering Cost		L.S.		3,3
	Construction Supervision		L.S.		2,2
	Water Quality Analysis	(1,2)	L.S.		1,2
	Sub-Total of F				6,7
			<u> </u>		i
e er Legel	GRAND TOTAL SAY				454,7

Table 10.2.3 (a) Unit Cost of Level I (Gravel Packed Deep Well - 80m Depth)

Note: L.S. - Lump Sum

Source: DPWH standard price in 1994, LWUA Water Supply Feasibility Study Methodlogy Manual 1996 Source: DP w H standard price in 1997, Dr Gr, mater suppry standard, stady including, Sudy Unit Cost: Adjusted to 1997 Price Level 10 - 5

Description	Quantity	Unit	Unit Cost	Cost
A. Mobilization/Demobilization/Site Preparation		L.S.		15,00
B. Drilling of Well & Installation of Steel Casing/Screen				
1. Materials	· ·			
(1) 100mm x 3m Steel Casing with coupling	24	pcs.	2,894	69,45
(2) 100mm x 3m Steel Casing with one end closed	1	pc.	2,997	2,99
(3) 100mm x 3m Low Carbon Steel Screen	2	pcs.	4,755	9,51
(4) Casing Centralizer	0	set	1,925	
2. Labor, Fuel, Lubricant and others		•		
Well Drilling for 80 m depth at 150mm borehole	80	m	∃1,534	122,72
3. Borehole Logging	1	· no	5,000	5,00
4. Freight Cost (11% of Materials)	i	L.S.		9,01
				- ,
Sub-Total of B				218,69
			1	210,07
C. Well Development and Pumping Test	<u> </u>			
Well Development	6	hr.	2,353	14,11
Pumping Test	6	hr.	1,472	8,83
				0,05
Sub-Total of C				22,95
D. Gravel Packing, Installation of Handpump and				
Construction of Platform			1	· · ·
1. Materials			1.1.1.1.1	19 - E
(1) Improved Deep Well Cylinder Pump (Malawi Type)	1	set	9,922	9,92
(2) 63mm x 6m Riser Pipe and Pump Rod	8		1,880	15,04
(3) #10 Sieved Gravel	0	cu.m	959	
(4) Coarse Sand		cum	335	
(5) Cement for Sanitary Seal	3		128	
(6) Pump Base and Platform		0460		
1) Cement	4	bags	128	- 51
2) Gravel	2			
3) Sand	1	cu.m	335	33
4) Plywood (1,200mm x 2,400mm x 6mm)		pc.	275	27
5) Form Lumber (50mm x 75mm x 1,800mm)	6	1 · ·	49	29
6) Nail	1 1	1.1.1.1.1.1	35	2,
Sub-Total of D-1	· !	kg.		27,98
2. Labor (40% of D-1.)				1.11
3. Freight Cost (11% of Materials)				11,19
3. Freight Cost (11% of Waterlais)		L.S.		3,0
Sub-Total of L				42,2
E. Indirect Cost	+			÷
Profit (10% of A, B, C & D)			1.1	20.0
Overhead Expense (13% of A,B,C & D)				29,8 38,8
VAT (10% of Labor, Profit & Overhead Expense)		1		1 · · · · ·
	,	1		20,2
Sub-Total of I	<u>'</u>	<u> </u>	 	50,1
Total of Construction Cost (A+B+C+D+E)	i a turda			334,9
F. Estimated Government Expenses		+	-	
1. Preliminary & Detailed Engineering Cost		L.S.	ſ	3,3
2. Construction Supervision		L.S.		2,2
3. Water Quality Analysis		L.S.		
5. water Quarty Analysis Sub-Total of I		L.S.	4	1,2
Sub-10(a) 01		1.		6,7
GRAND TOTAL			1	341,6
SAY	i .	1.1		341,7

Table 10.2.3 (b)	Unit Cost of Level I (Natural Gravel Packed Deep Well - 80m Depth)

Note: L.S. - Lump Sum Source: DPWH standard price in 1994, LWUA Water Supply Feasibility Study Methodlogy Manual 1996 10 - 6 Unit Cost: Adjusted to 1997 Price Level

Description	Quantity	Unit	Unit Cost	Cost
A. Mobilization/Demobilization/Site Preparation		L.S.	Cast	15,00
B. Drilling of Well & Installation of Steel Casing/Screen				
1. Materials	· ·			
(1) 100mm x 3m Steel Casing with coupling	37	pcs.	2,894	107,07
(2) 100mm x 3m Steel Casing with one end closed		pes. pc.	2,997	2,99
(3) 100mm x 3m Low Carbon Steel Screen	2	pcs.	4,755	
(4) Casing Centralizer		set	1,925	
2. Labor, Fuel, Lubricant and others	<u>م</u>	361	1,725	2,02
Well Drilling for 120 m depth at 200mm borehole	120	m	2,460	295,20
3. Borehole Logging	1 120	no	5,000	
4. Freight Cost (11% of Materials)	. '	L.S.	5,000	13,57
		12.0.		12,27
Sub-Total of B				437,21
				-10 rgæs.
C. Well Development and Pumping Test				
Well Development	12	hr.	2,353	28,23
Pumping Test	6	hr.	1,472	
	ł			
Sub-Total of C				37,06
D. Gravel Packing, Installation of Handpump and				
Construction of Platform				
1. Materials			· ·	
(1) Improved Deep Well Cylinder Pump (Malawi Type)	1	set	9,922	9,92
(2) 63mm x 6m Riser Pipe and Pump Rod	15	1	1,880	
(2) Sicved Gravel	2.5		959	· ·
(4) Coarse Sand	1	cu.m	335	
(5) Cement for Sanitary Seal	4	bags	128	
(6) Pump Base and Platform		Jugo		
1) Cement	4	bags	128	51
2) Gravel	2		424	• ·
3) Sand	1	cu.m	-335	
4) Plywood (1,200mm x 2,400mm x 6mm)	1 1	pc.	275	•
5) Form Lumber (50mm x 75mm x 1,800mm)	6		49	1 1 1
6) Nail	· i	kg.	35	3
Sub-Total of D-	I .		ł	43,66
2. Labor (40% of D-1.)		1.1 1.1 1 1 1 1 1		17,46
3. Freight Cost (11% of Materials)		L.S.		4,80
			1	
Sub-Total of I)			65,93
E. Indirect Cost				
Profit (10% of A, B, C & D)				55,52
Overhead Expense (13% of A,B,C & D)				72,17
VAT (10% of Labor, Profit & Overhead Expense)				44,03
Sub-Total of I	c			99,55
		1	1	
Total of Construction Cost (A+B+C+D+E)		42.5		626,53
F. Estimated Government Expenses				
1. Preliminary & Detailed Engineering Cost	- 11 - F	L.S.		3,3
2. Construction Supervision		L.S.		2,2
3. Water Quality Analysis		L.S.		1,2
Sub-Total of	F			6,7
	_		+	633,2
GRAND TOTAL		1		633,3

Table 10.2.4 (a) Unit Cost of Level I (Gravel Packed Deep Well - 120m Depth)

Note: L.S. - Lump Sum Source: DPWH standard price in 1994, LWUA Water Supply Feasibility Study Methodrogy manual and Unit Cost: Adjusted to 1997 Price Level

A. Mobilization/Demobilization/Site Preparation L.S. 1 B. Drilling of Well & Installation of Steel Casing/Screen 1 1 1. Materials 37 pcs. 2,894 10 (2) 100mm x 3m Steel Casing with one end closed 1 pc. 2,997 (3) 100mm x 3m Steel Casing with one end closed 1 pc. 2,997 (4) Casing Centralizer 0 set 1,925 2. Labor, Fuel, Lubricant and others 0 set 1,925 3. Borchole Logging 1 n 5,500 4. Freight Cost (11% of Materials) L.S. 1 n Sub-Total of B 2 2,353 1 1 C. Well Development 6 hr. 1,472 1 Pumping Test 6 hr. 1,472 1 Sub-Total of C 2 2 2 3 2 2 2 3 2 2 3	Description	Quantity	Unit	Unit Cost	Cost
1. Materials 37 pcs. 2,894 10 (1) 100mm x 3m Steel Casing with one end closed 1 pc. 2,997 (2) 100mm x 3m Steel Casing with one end closed 1 pc. 2,997 (3) 100mm x 3m Low Carbon Steel Screen 2 pcs. 4,755 (4) Casing Centralizer 0 set 1,925 2. Labor, Fuel, Lubricent and others 0 set 1,925 3. Borchole Logging 1 no 5,000 4. Freight Cost (11% of Materials) L.S. 5 5 Sub-Total of B 2,353 1 3 C. Well Development and Pumping Test 6 hr. 2,353 Well Development and Pumping Test 6 hr. 1,472 Well Development and Pumping Materials 1 set 9,922 (2) 63mm x 6m Riser Pipe and Pump Rod 15 pcs. 1,880 (1) Improved Deep Well Cylinder Pumpi (Malawi Type) 1 set 9,922 (2) 63mm x 6m Riser Pipe and Pump Rod 15 pcs. 1,880 (3) 410 Sieved Gravel 0 cu.m 335 (4)	. Mobilization/Demobilization/Site Preparation		L.S.		15,0
(1) 100mm x 3m Steel Casing with one end closed37pcs.2,89410(2) 100mm x 3m Steel Casing with one end closed1pc.2,975(3) 100mm x 3m Low Carbon Steel Screen2pcs.4,755(4) Casing Centralizer0set1,9252. Labor, Fuel, Lubricant and others1n1,534Well Dirlling for 120 m depth at 150mm borehole120m1,5343. Borehole Logging1no5,0001.54. Freight Cost (11% of Materials)L.S.iiSub-Total of B22,353nC. Well Development and Pumping Test6hr.2,353Pumping Test6hr.1,472Sub-Total of C22D. Gravel Packing, Installation of Handpump and Construction of Platform1set1. Materials1u.m.335(3) #40 Sieved Gravel0u.m.335(4) Coarse Sand1u.m.335(5) Cement for Sanitary Seal3bags128(6) Pump Base and Platform1cu.m.3351) Cement4bags12822) Gravel2cu.m.4243) Sand1cu.m.335(6) Pump Base and Platform1cu.m.3351) Cement2bags1282) Gravel2cu.m.4243) Sand1cu.m.335(6) Pump Base and Platform1kg.35 <td></td> <td>1.1</td> <td></td> <td></td> <td></td>		1.1			
(2) 100mm x 3m Steel Casing with one end closed1pc.2,997(3) 100mm x 3m Low Carbon Steel Screen2pcs.4,753(4) Casing Centralizer0set1,9252. Labor, Fuel, Lubricant and others0set1,925Well Drilling for 120 m depth at 150mm borehole10m1,53418Borchole Logging1no1,5344. Freight Cost (11% of Materials)L.S.5,000L.S.2. Well Development and Pumping Test6hr.2,353Well Development6hr.1,472Pumping Test6hr.1,472Sub-Total of C22D. Gravel Packing, Installation of Handpump and Construction of Platform1set1. Materials1cu.m335(5) Cement for Sanitary Seal3bags128(6) Pump Base and Platform1cu.m3351. Cement4bags1282. Gravel2cu.m4243. Sand1cu.m3354. Plywood (1,200mm x 2,400mm x 6mm)1pcs.6) NailSub-Total of D-11kg.2. Labor (40% of D-1.)Sub-Total of D-113. Freight Cost (11% of Materials)L.S.4F. Estimated Covernment ExpensesSub-Total of D1F. Estimated Covernment ExpensesL.S.L.S.1. Ocostruction Cost (A+B+C+D+E)4F. Estimated Covernment ExpensesL.S.L.S.1					
(3) 100nm x 3m Low Carbon Steel Screen2pcs.4,755(4) Casing Centralizer0set1,9252. Labor, Fuel, Lubricant and others120m1,534Well Drilling for 120 m depth at 150mm borehole120m1,5343. Borchole Logging1noi5,0004. Freight Cost (11% of Materials)L.S.1Sub-Total of B32C. Well Development and Pumping Test6hr.2,353Pumping Test6hr.1,472Sub-Total of C22D. Gravel Packing, Installation of Handpump and Construction of Platform1set9,922(2) 63mm x 6m Riser Pipe and Pump Rod15pcs.1,8802(3) #10 Sieved Gravel00u.m335128(4) Coarse Sand1cu.m335128128(5) Cement for Sanitary Seal3bags128128(1) Cement4bags1282128(2) Gravel2cu.m335128128(3) #10 Sieved Gravel2cu.m335128(5) Cement for Sanitary Seal1cu.m335128(6) Pump Base and Platform1pcs.2755(1) Cement4bags1282(2) Gravel2cu.m335128(3) #10 Sieved Gravel2cu.m335128(3) #10 Sieved Gravel2cu.m335(4) Pump B		37	pcs.		
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5) Form Lumber (50mm x 75mm x 1,800mm) 6 pcs. 49 6) Nail Sub-Total of D-1 kg. 35 2. Labor (40% of D-1.) Sub-Total of D-1 L.S. 3. Freight Cost (11% of Materials) L.S. L.S. Sub-Total of D E. Indirect Cost Profit (10% of A, B, C & D) Overhead Expense (13% of A, B, C & D) VAT (10% of Labor, Profit & Overhead Expense) Sub-Total of E F. Estimated Government Expenses 1. Preliminary & Detailed Engineering Cost L.S. 2. Construction Supervision L.S. 3. Water Quality Analysis L.S.					
6) Nail 1 kg. 35 2. Labor (40% of D-1.) 3. Freight Cost (11% of Materials) L.S. L.S. 3. Freight Cost (11% of Materials) Sub-Total of D L.S. E. Indirect Cost Profit (10% of A, B, C & D) Overhead Expense (13% of A,B,C & D) VAT (10% of Labor, Profit & Overhead Expense) Sub-Total of E F. Estimated Government Expenses 1. Preliminary & Detailed Engineering Cost L.S. 2. Construction Supervision L.S. 3. Water Quality Analysis L.S.	5) Form Luniber (S0mm v 7Smm v 1 200 mm)		1 -		
Sub-Total of D-1 2. Labor (40% of D-1.) 3. Freight Cost (11% of Materials) L.S. Sub-Total of D E. Indirect Cost Profit (10% of A, B, C & D) Overhead Expense (13% of A,B,C & D) VAT (10% of Labor, Profit & Overhead Expense) Sub-Total of E F. Estimated Government Expenses 1. Preliminary & Detailed Engineering Cost 2. Construction Supervision 3. Water Quality Analysis		1 .	1 4 2	1	1 7
2. Labor (40% of D-1.) 3. Freight Cost (11% of Materials) L.S. 3. Freight Cost (11% of Materials) L.S. Sub-Total of D E. Indirect Cost Profit (10% of A, B, C & D) Overhead Expense (13% of A, B, C & D) VAT (10% of Labor, Profit & Overhead Expense) Sub-Total of E Total of Construction Cost (A+B+C+D+E) F. Estimated Government Expenses 1. Preliminary & Detailed Engineering Cost 2. Construction Supervision 3. Water Quality Analysis		1 -	Kg.		41,1
3. Freight Cost (11% of Materials) L.S. Sub-Total of D I.S. E. Indirect Cost Profit (10% of A, B, C & D) Overhead Expense (13% of A, B, C & D) VAT (10% of Labor, Profit & Overhead Expense) I.S. Sub-Total of E I.S. Total of Construction Cost (A+B+C+D+E) I.S. F. Estimated Government Expenses I.S. 1. Preliminary & Detailed Engineering Cost I.S. 2. Construction Supervision I.S. 3. Water Quality Analysis I.S.		·			16,4
Sub-Total of D E. Indirect Cost Profit (10% of A, B, C & D) Overhead Expense (13% of A, B, C & D) VAT (10% of Labor, Profit & Overhead Expense) Sub-Total of E Total of Construction Cost (A+B+C+D+E) F. Estimated Government Expenses 1. Preliminary & Detailed Engineering Cost 2. Construction Supervision 3. Water Quality Analysis			US		4,5
E. Indirect Cost Profit (10% of A, B, C & D) Overhead Expense (13% of A, B, C & D) VAT (10% of Labor, Profit & Overhead Expense) Sub-Total of E Sub-Total of E F. Estimated Government Expenses L.S. 1. Preliminary & Detailed Engineering Cost L.S. 2. Construction Supervision L.S. 3. Water Quality Analysis L.S.	J		1	1	
Profit (10% of A, B, C & D) Overhead Expense (13% of A, B, C & D) VAT (10% of Labor, Profit & Overhead Expense) Sub-Total of E Total of Construction Cost (A+B+C+D+E) F. Estimated Government Expenses 1. Preliminary & Detailed Engineering Cost 2. Construction Supervision 3. Water Quality Analysis	Sub-Total of I	D			62,1
Profit (10% of A, B, C & D) Overhead Expense (13% of A, B, C & D) VAT (10% of Labor, Profit & Overhead Expense) Sub-Total of E Total of Construction Cost (A+B+C+D+E) F. Estimated Government Expenses 1. Preliminary & Detailed Engineering Cost 2. Construction Supervision 3. Water Quality Analysis	E. Indirect Cost		┼──	-	
Overhead Expense (13% of A,B,C & D) VAT (10% of Labor, Profit & Overhead Expense) Sub-Total of E Total of Construction Cost (A+B+C+D+E) F. Estimated Government Expenses 1. Preliminary & Detailed Engineering Cost 2. Construction Supervision 3. Water Quality Analysis		1 1 1	la e		42,1
VAT (10% of Labor, Profit & Overhead Expense) Sub-Total of E Sub-Total of E 4 F. Estimated Government Expenses L.S. 1. Preliminary & Detailed Engineering Cost L.S. 2. Construction Supervision L.S. 3. Water Quality Analysis L.S.		a ta ta	1		54,8
Sub-Total of E 4 Total of Construction Cost (A+B+C+D+E) 4 F. Estimated Government Expenses 1. 1. Preliminary & Detailed Engineering Cost L.S. 2. Construction Supervision L.S. 3. Water Quality Analysis L.S.		The se			29,7
F. Estimated Government Expenses L.S. 1. Preliminary & Detailed Engineering Cost L.S. 2. Construction Supervision L.S. 3. Water Quality Analysis L.S.	Sub-Total of I	2			71,9
F. Estimated Government Expenses L.S. 1. Preliminary & Detailed Engineering Cost L.S. 2. Construction Supervision L.S. 3. Water Quality Analysis L.S.	Total of Construction Cost (A+R+C+D+E)				479,7
1. Preliminary & Detailed Engineering Cost L.S. 2. Construction Supervision L.S. 3. Water Quality Analysis L.S.					
2. Construction Supervision L.S. 3. Water Quality Analysis L.S.		1 1 N J.			
3. Water Quality Analysis		1	4 5 5		3,3
		1.1.1	1 .		2,2
Sub-rotai of F			L.S.		1,2
	Sub-l'otal of	r 			6,7
	GRAND TOTAL			1.1.2.5.5	486,4

 SAY
 486,500

 Note: L.S. - Lump Sum
 Source: DPWH standard price in 1994, LWUA Water Supply Feasibility Study Methodlogy Manual 1996

 Unit Cost: Adjusted to 1997 Price Level
 10 - 8

				ost: Peso)
Description	Quantity		Unit Cost	Cost
A. Mobilization/Demobilization		L.S.		5,000
B. Well Rehabilitation		<u>.</u>		
1. Materials			4 T	
(1) Cylinder Pump Set	1	set	9,922	9,92
(2) Cement for Surface Sealing	4	bags	128	51
(3) Pump Base and Platform				
1) Cement	4	bags	128	51
2) Gravel	2	cu.m	424	. 84
3) Sand	1	cu.m	335	33
4) Plywood (4' x 8' x 1/4")	1	pc.	275	27
5) Form Lumber (2" x 3" x 6")	6	pcs.	49	29
6) Nail	1	kg.	. 35	3
Sub-Total of B	1			12,73
2. Labor (40% of B-1)		· · .	1. A.	5,09
3. Freight Cost (11% of Materials)				1,40
Sub-Total of	B			19,22
C. Well Development		L.S.		28,00
D. Indirect Cost			- · · · · ·	
Profit (10% of A, B & C)	14 - 14 A. A. A.	1. 		5,22
Overhead Expense (13% of A,B & C)				6,7
VAT (10% of Profit & Labor)				3,8
Sub-Total of	D			15,8
	<u> </u>		+	
Total of Construction Cost (A+B+C+D)			· ·	68,0
Totat of Construction Cost (A . 2 . C . 2)		1	1.1	
E. Estimated Government Expenses			1	
1. Preliminary & Detailed Engineering Cost		L.S.	1.1	1,2
2. Supervision	e di se del	L.S.		7
3. Water Quality Analysis		L.S.		1,2
S. Water Quarty Analysis Sub-Total of	Е			3,1
	~			
GRAND TOTAL		-	1	71,2
SAY				71,2

 Table 10.2.5
 Unit Cost of Level I (Deep Well Rehabilitation)

Note: L.S. - Lump Sum Source: DPWH standard price in 1994

Unit Cost: Adjusted to 1997 Price Level

Description	Quantity	Unit	Unit	Cost
	Quantity		Cost	
A. Mobilization/Demobilization		L.S.		3,00
B. Drilling of Well & Installation of Steel Casing/Screen				
1. Materials				
(1) 63mm x 6m PVC Pipe with socket	2	pcs.	896	1,79
(2) 63mm x 3m PVC Pipe with plug	1	pc.	452	45
(3) 63mm PVC Socket		pc.	- 99	
(4) 63mm x 3m PVC Screen	1	pc.	1,433	1,43
(5) Casing Centralizer	2	set	725	1,45
2. Labor, Fuel, Lubricant and others			<i></i>	1,15
Well Drilling for 18 m depth at 150mm borehole	18		1,534	2761
	10	m	1,554	27,61
3. Freight Cost (11% of Materials)		L.S.		41
Sub-Total of B				33,25
				; .
C. Well Development	4	hr.	1,482	5,92
	<u> </u>		<u></u>	
D. Gravel Packing, Installation of Handpump and				•
Construction of Platform				
1. Materials				
(1) 50mm Jetmatic Handpump	1	set	2,623	2,62
(2) 50mm Riser Pipe and Foot Valve	1	pc.	-110	- 11
(3) #10 Sieved Gravel	0.1	cu.m	959	. 9
(4) Coarse Sand	0.07	cu.m	335	5 a. C. 2
(5) Cement for Sanitary Seal	4	1	128	
(6) Pump Base and Platform		8		
1) Cement	4	bags	128	51
2) Gravel	1	cu.m	424	
3) Sand	1	cu.m	335	31
4) Plywood (1,200mm x 2,400mm x 6mm)		1	275	
		pc.	1	1 1 2 4 4 1 1 2 4 1 1 2 4 1 1 2 4 1 1 2 4 1 1 2 4 1 1 1 1
5) Form Lumber (50mm x 75mm x 1,800 mm)		pc.	49	4
6) Nail		kg.	35	
Sub-Total of D-		(a,b)	a para a	4,99
2. Labor (40% of D-1.)				1,99
3. Freight Cost (11% of Materials)		L.S.		. <u>5</u> 4
Sub-Total of I)			7,54
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>		
E. Indirect Cost		1.	1.1	
Profit (10% of A to D)		1 .	e da sec	4,9
Overhead Expense (13% of A to D)		1.11	1	6,40
VAT (10% of Profit & Overhead Expense)				1,1
Sub-Total of J	£			6,1
Total of Construction Cost (A+B+C+D+E)				55,8
F. Estimated Government Expenses				
1. Preliminary & Detailed Engineering Cost		L.S.		2,2
2. Construction Supervision		L.S.	Territ.	1,6
3. Water Quality Analysis		L.S.		1,0
5. Water Quarty Analysis Sub-Total of	F	1		5,0
Sub-10tal 01	R"		a da a	5,0
CRAND TOTAL		+		60,9
GRAND TOTAL SAY		- · ·		60,9

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Table 10.2.6 Unit Cost of Level I (Shallow Well - 18m Depth)

Note: L.S. - Lump Sum

Source: DPWH standard price in 1994, LWUA Water Supply Feasibility Study Methodlogy Manual 1996 Unit Cost: Adjusted to 1997 Price Level 10 - 10

Description	Quantity	Unit	Unit Cost	Cost
A. Mobilization/Demobilization		L.S.		3,60
3. Construction of Spring Box	1 1	L.S.		39,90
1. Materials		L.S.	1	13,90
2. Labor (35% of 1.)		L.S. L.S.		4,38
3. Freight Cost (11% of Materials) Sub-Total of I	,	L.J.		58,2
				50,2.
C. Installation of Pipelines & Fittings				
1. Transmission Main				
(1) Materials				
1) 63mm dia. PVC Pipe (Class 12.5 with push type socket)	330	pcs.	896	295,6
2) 63mm dia. Tee	1	no.	97	
3) Solvent Cement	26	cans	50	1,3
4) 63mm dia. Elbow (90 deg.)	3	nos.	83	2
5) 63mm dia. Elbow (45 deg.)	-:	pc.	82	
6) 50mm dia. Gate Valve	2	pcs.	841	1,6
7) 50mm dia. x 1m Stand Pipe	1	pc.	165	1
8) 63mm x 50mm GI Nipple	1	pc.	115	1
9) 50mm dia. Union Patente	3	pcs.	179	<u> </u>
10) 63mm x 50mm dia. Reducing Socket	2		106	2
11) 50mm dia. GI Elbow (90 deg.)	2	pcs.	74	
12) 63mm x 50mm dia. Socket Adaptor	2	pcs.	156	
13) Somm dia. GI Gate Valve	2		739	1,4
	2	pcs.	45	
14) 13mm dia. Brass Faucet Sub-Total of Materia	le 2			302,0
		L.S.		105,1
(2) Labor (35% of Material Cost)	1.	L.S.		. 33,
(3) Freight Cost (11% of Materials)		L.J.		
Sub-Total of	c	a territoria.		441,
D. Indirect Cost				
1. Transmission Main			••	1 I.
(1) Profit (10% of C)				44,
(2) Overhead Expense (13% of C)				57,
(3) VAT (10% of Profit, Overhead Expense and Labor)			·	20,
2. Source Facilities		1.		
(1) Profit (10% of A, B)				18,
(2) Overhead Expense (13% of A, B)			. ·	- 6,
(3) VAT (10% of Profit, Overhead Expense and Labor)				3,
Sub-Total of	D	1.4.4.4		: 150,
		ļ		
Total Construction Cost (A+B+C+D)		1		653,
		1. 1. A. A.		
E. Estimated Government Expenses				
1. Preliminary & Detailed Engineering and RWSA Formation	· · · ·	1 .	·]	2,
2. Supervision	1			13,
3. Water Quality Analysis		1.00		· 1,
Sub-Total of	Е			16,
	1	· · ·		
GRAND TOTAL				670
SAY		1.11		670

Table 10.2.7	Unit Cost of Level I	(Spring Development)
		and a second second second second second

Note: L.S. - Lump Sum

Source: DPWH standard price in 1994, LWUA Water Supply Feasibility Study Methodlogy Manual 1996 Unit Cost: Adjusted to 1997 Price Level

of 2Description	Quantity	Unit	Unit Cost	Cost
Mobilization/Demobilization	3	L.S.		5,000
Construction of Spring Box				30.000
Materials		L.S.		39,900
Labor (35% of 1.)		L.S.		13,965
Freight Cost (11% of Materials)		L.S.		4,389
Sub-Total of B				58,254
			·	l
Installation of Pipelines & Fittings		1997 - 19		and the second
. Transmission Main				
(1) Materials				
1) 63mm dia. PVC Pipe (Class 12.5 with pusher type socket)	500	pcs.	896	448,000
2) 63mm dia Tee	1	no.	97	97
3) Solvent Cement	40	cans	50	2,000
4) 63mm dia. x 50mm Nipple	3	nos.	149	447
5) 63mm dia. Union Patente	- 1	. pc.	190	190
6) 63mm dia. x 50mm dia. Reducing Socket	2	pcs.	115	230
7) 63mm dia. Elbow (90 deg.)	1 1	pc.	83	83
8) 63mm dia. Elbow (45 deg.)	1 1	pc.	82	82
9) 63mm dia. Gate Valve	3	pcs.	841	2,523
Sub-Total of Materials	- I	1		453,652
			1 - 1 - 1 - 1	
(2) Labor (35% of Material Cost)	1.1.4	L.S.		158,778
(3) Freight Cost (11% of Materials)		• L.S.		49,902
Sub-Total of Transmission Mair	1			662,332
2. Distribution Pipeline				
(1) Materials	· ·			
1) 50mm dia. PVC Pipe (Class 12.5 with pusher type socket)	20	pcs.	496	1 II
 38mm dia, PVC Pipe (Class 12.5 with pusher type socket) 	30	pcs.	330	
3) 20mm dia. PVC Pipe (Class 40 with pusher type socket)	10	pcs.	110	6 i II
4) 13mm dia. x 1 m Stand Pipe	10	pes.	103	1 1
5) Solvent Cement	. 4	cans	50	200
6) Fittings	1.1	1 ·		
a. 50mm dia. x 150mm PVC Nipple		pcs.	137	
b. 32mm dia. x 150mm PVC Nipple	1	B pcs.	83	
c. 13mm dia. x 150mm GI Nipple	4() pcs.	27	
d. 50mm dia. Union Patente		pcs.	179	
e. 32mm dia. Union Patente		2 pcs.	78	
f. 13mm dia. Union Patente	10) pcs.	21	
g. 50mm dia. x 32mm dia. Reducing Socket		6 pcs.	9	4
h. 32mm dia. x 20mm dia. Reducing Socket	1 14	0 pcs.	7	770
i. 20mm dia. x 13mm dia. Reducing Socket	1	0 pcs.	60	600
j. 50mm dia. PVC Elbow (90 deg.)		2 pcs.	7	
k. 13mm dia. GI Elbow (90 deg.)	2	0 pcs.	. 1	
1. 20mm dia. x 13mm dia. Socket Adaptor	. 1	0 pcs.	. 4	
m, 50mm dia. GI Gate Valve		2 pcs.	73	
n. 32mm dia. GI Gate Valve		2 pes.	41	
o. 13mm dia. GI Gate Valve		4 pcs.	25	
p. 13mm dia. Brass Faucet	2	4 pcs.	4	A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
q. 50mm dia. Tee		4 pcs.	14	
r. 32mm dia. Tee	- Card	6 pcs.	14 1 4 12	
s. Water Meter	2	4 pcs.		
t. Water Meter Box		4 pcs.	1,21	
Sub-Total of Materia	als			87,013
		1		1
(2) Labor (35% of Material Cost)		· .		30,455
		L.S		9,57
(3) Freight Cost (11% of Materials) Sub-Total of Distribution Pipeli	ine		a standard	127,039
Sub-Total of	rcl	- 1		789,37

Table 10.2.8 Unit Cost of Level II (600 Service Population)

heet 2 of 2				(Cost: Pest
Description	Quantity	Unit	Unit Cost	Cost
D. Indirect Cost				
1. Transmission Main				
(1) Profit (10% of C-1)				66,2.
(2) Overhead Expense (13% of C-1)				86,10
(3) VAT (10% of Profit, Overhead Expense and Labor)				/ 31,1
2. Source Facilities and Distribution Pipeline	1			
(1) Profit (10% of A, B, C-2)				19,02
(2) Overhead Expense (13% of A, B and C-2)				24.7
(3) VAT (10% of Profit, Overhead Expense and Labor)				8,8
Sub-Total of D				236,0
			l	
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Total Construction Cost (A+B+C+D)				1,088,6
P. P.()	· · ·			
E. Estimated Government Expenses		1.1		
1. Preliminary & Detailed Engineering and RWSA Formation				2,2
2. Supervision				13,2
3. Water Quality Analysis				1,24
Sub-Total of E				16,6
Total Estimated Cost				
i viai estimated Cost			· · ·	1,105,3
Unit Cost per Person Served	┠ ┠			
enne eost per reison derveu	1. 1			1,8 1,8

Source: DPWH standard price in 1994, LWUA Water Supply Feasibility Study Methodlogy Manual 1996

Unit Cost: Adjusted to 1997 Price Level

					(Cost: Peso)
Description		Quantity	Unit	Unit Cost	Cost
A. Mobilization/Demobilization			L.S.	· .	330,000
B. Source Development and Storage					
1. Deep Well		1	No.	1,770,000	1,770,00
2. Deep Well Pump		1	No.	632,000	632,00
3. Chlorinator House & Equipment		1	L.S.		480,00
4. Storage Tank (250 cu.m)		1	No.	1,200,000	1,200,00
Sub-Total	of B				4,082,00
C. Transmission Main		1.4.4	i		;
1. 160mm dia.		500	LM.	1,234	617,00
Sub-Total	ofC				617,00
D. Distribution Main					
1. 160mm dia.		1,000	L.M.	1,234	1,234,00
2. 110mm dia.		3,000	L.M.	1,019	3,057,00
3. 90mm dia.	¹	3,000	L.M.	639	1,917,00
4. 75mm dia.		5,000	L.M.	595	2,975,00
Sub-Total	l of D				9,183,00
E. Service Connections		1,000	Nos.	2,138	2,138,00
F. Miscellaneous			· ·	· · ·	
1. Vehicle		1	No.	606,000	
2. Office & Workshop Bldg.		-1	No.	606,000	
3. Office Equipment	1.1		L.S.	the state	110,00
4. Tools and Spare Parts			L.S.		110,00
Sub-Tota	al of F				1,432,0
	· .	· · · · ·	· · · · ·		
Total Direct Cost (A+B+C+D+E+F)					17,782,0
G. Indirect Cost (25% of Direct Cost)				-	4,445,5
Total Estimated Cost					22,227,5
Unit Cost per Person Served		· ·	1.		
For New Construction		1			4,4
					4,4
For Expansion of Existing System (Exclude F.)		1	· .	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4,0
	1	<u> </u>	<u> </u>	1	4,

 Table 10.2.9
 Unit Cost of Level III (5,000 Service Population)

Note: L.S. - Lump Sum

Cost of spring development includes additional transmission main, but it shall be confirmed by survey in the implementation stage.

Source: LWUA standard price in 1994

Unit Cost: Adjusted to 1997 Price Level

Description	Quantity	Unit	Unit Cost	Cost
A. Mobilization/Demobilization	¥	L.S.		330,000
B. Source Development and Storage				
1. Deep Well	1	No.	1,770,000	1,770,00
2. Deep Well Pump	1	No.	632,000	632,00
3. Chlorinator House & Equipment	1	L.S.	052,000	480,00
4. Storage Tank (250 cu.m)	1	No.	1,200,000	1,200,00
Sub-Total of B			1,200,000	4,082,00
C. Transmission Main				
1. 160mm dia.	500	L.M.	1,234	617,00
Sub-Total of C				617,00
D. Distribution Main				
1. 160mm dia.	2,000	L.M.	1,234	2,468,00
2. 110mm dia.	5,000	L.M.	1,019	5,095,00
3. 90mm dia.	6,000	L.M.	639	3,834,00
4. 75mm dia.	8,000	L.M.	595	4,760,00
Sub-Total of D				16,157,00
E. Service Connections	2,000	Nos.		3,880,00
F. Miscellaneous				
I. Vehicle	1	No.	606,000	606,0
2. Office & Workshop Bldg.		No.	606,000	606,0
3. Office Equipment		L.S.		110,00
4. Tools and Spare Parts		L.S.		110,0
Sub-Total of F	1. 1.			1,432,0
Total Direct Cost (A+B+C+D+E+F)				26,498,0
G. Indirect Cost (25% of Direct Cost)				6,624,5
Total Estimated Cost				33,122,5
Unit Cost per Person Served				
For New Construction				3,3
LOI HEM CONSTRUCTOR				3,3
For Expansion of Existing System (Exclude F.)				3,1
FOI Expansion of Evisting Distem (Evenue Li)				3,1

Table 10.2.10 Unit Cost of Level III (10,000 Service Population)

Cost of spring development includes additional transmission main, but it shall be confirmed by survey in the implementation stage.

Source: LWUA standard price in 1994

Unit Cost: Adjusted to 1997 Price Level

		<u></u>		(Cost: Peso)
Description	Quantity	Unit	Unit Cost	Cost
A. Mobilization/Demobilization		L.S.		330,000
B. Source Development and Storage			n an	
1. Deep Well	2	No.	1,770,000	3,540,000
2. Deep Well Pump	2	No.	632,000	1,264,00
	2	L.S.	052,000	480,00
3. Chlorinator House & Equipment	i		1 200 000	
4. Storage Tank (250 cu.m)	2	No.	1,200,000	1,200,000
Sub-Total of B				6,484,00
				<u></u>
C. Transmission Main		1		
1. 160mm dia.	1,000	L.M.	1,234	1,234,00
Sub-Total of C				1,234,00
			· .	
D. Distribution Main		:		
1. 160mm dia.	3,000	L.M.	1,234	3,702,00
2. 110mm dia.	7,000	L.M.	1,019	7,133,00
3. 90mm dia.	9,000	L.M.	639	5,751,00
4. 75mm dia.	11,000	L.M.	595	
Sub-Total of D				23,131,00
		, i		20,201,00
E. Service Connections	3,000	Nos.		5,820,00
F. Miscellaneous				
1. Vehicle	1	No.	606,000	606,00
2. Office & Workshop Bldg.	1	No.	606,000	606,00
3. Office Equipment		L.S.	,	110,00
4. Tools and Spare Parts		L.S.		110,00
4. Tools and Spare 1 and Sub-Total of F		<i>D</i> .0.		1,432,00
				1,432,00
			· · · · · · · · · · · · · · · · · · ·	
		· · ·		20 421 00
Total Direct Cost (A+B+C+D+E+F)	the same			38,431,00
	· · ·	. 	·	0.005.7
G. Indirect Cost (25% of Direct Cost)	l et a ser	e este a construction de la construcción de la construcción de la construcción de la construcción de la constru La construcción de la construcción d		9,607,75
	· · · ·		·	ļ
Total Estimated Cost	a na Madala	1.2	1 .	48,038,75
Unit Cost per Person Served	1			
For New Construction	·			3,20
				3,20
For Expansion of Existing System (Exclude F.)		1.1.1.1	e de la lega	3,0
				3,10

Table 10.2.11 Unit Cost of Level III (15,000 Service Population)

Note: L.S. - Lump Sum

Cost of spring development includes additional transmission main, but it shall be confirmed by survey in the implementation stage.

Source: LWUA standard price in 1994

Unit Cost: Adjusted to 1997 Price Level

	Description	Quantity	Unit	Unit Cost	Cost
A .	Demolition		L.S.		1,000
3,	Earthwork				
1	Materials			i i	
	(1) Gravel Fill	. 1	cu.m.	424	424
	Sub-Total of B-1				424
2	Labor				
	(1) Excavation	6	cu.m.	131	780
	(2) Backfill	2	cu.m.	119	23
	(3) Gravel Fill	1	cu.m	155	15
	Sub-Total of B-2 Sub-Total of B				1,179
C.	Concrete Work				<u></u>
	Materials				-
	Slab on wood planks			I	
	(1) 16 - 2" x 8" x 6' Coco Lumber	128	bd.ft	. 8	1,02
	(2) 10mm dia x 6.0m Rebar	3	pcs.	54	16
	(3) #16 Tie Wire	0.5	kg.	54	2
	(4) Cement	10	bags	128	1,28
	(5) Sand	1.5	cu.m.	335	50
	(6) Gravel	. 2	cu.m.	424	84
	(7) Stone Lining with Mortar		L.S.		<u>1,11</u>
	Sub-Total of C-1				4,95
	2. Labor (30% of C-1)				1,48
	Sub-Total of C		· · · · · · · · · · · · · · · · · · ·		6,44
D.	Carpentry Work		10 - 10	the second	
	1. Materials				
	(1) Nipa	60	pcs.	2	12
	(2) 1.5m x 1.8m, amakan	3	pcs.	70	21
	(3) 2x 3 x 10' Coco Lumber	20	bd.ft	10	20
	(4) 2 x 2 x 10' Coco Lumber	33.3	bd.ft	10	33
	(5) 3" dia. Bamboo	3	lights	20 40	10
	(6) Assorted CWN	4 20	kgs.	40	
	(7) Rattan wire	20	pcs.	2 C 1	1,10
	Sub-Total of C-1				3.
	2. Labor (30% of C-1)				1,4
F	Sub-Total of C	+	+		A,¬,
E.	Plumbing		1		
	 Materials Water Closet 		set	4,500	4,5
	(1) water Closer(2) Water line and sanitary fixtures	· · · '	L.S.	1	1,5
	(2) water the and samaly fixeres Sub-Total of E-1				6,0
	2. Labor (30% of E-1)			1.	1,8
	2. Labor (50% 01 E-1) Sub-Total of H	c			7,8
F	Transportation Cost		L.S.	1	5
F.	(excluding indigenous materials)				1
G.		+		1	1
G .	Profit (10% of $A - F$)	· .			1,8
	VAT (10% of Profit & Labor)				6
	VA1 (10% of 110m & Eacor) Sub-Total of	F			2,5
	Total of Construction Cost	-			21,3
- I I	(A+B+C+D+E+F+G)				21,3

Table 10.2.12 Unit Cost of Flush Water Sealed with Septic Tank Toilet

DOH standard price in 1993 Cost adjusted to 1997 Price Level 10 - 17

Description	Quantity	Unit	Unit Cost	(Cost: Peso) Cost
. Earthwork				
1. Materials				
(1) Gravel Fill	1	cu.m.	424	424
(1) Graver (III Sub-Total of A-1	1	¢u.m.		424
				747
2. Labor			121	786
(1) Excavation	6	cu.m.	131	
(2) Backfill	- 2	cu.m.	119	238
(3) Gravel Fill	1	cu.m.	155	155
Sub-Total of A-2				1,179
Sub-Total of A				1,603
. Concrete Work			1.1.1.1	
1. Materials				
Slab on wood planks	an an an an an an			
(1) 16 - 2" x 8" x 6' Coco Lumber	128	bd.ft	8	1,024
(1) 10^{-2} x 8 x 0 coco Lunioci (2) 10 mm dia x 6.0m Rebar	3	pcs.	54	162
	0.5		54	2
(3) #16 Tie Wire		kg.		
(4) Cement	10	~	128	1,280
(5) Sand	1.5	cu.m.	335	50.
(6) Gravel	2	cu.m.	424	84
(7) Stone Lining with Mortar		L.S.	1. S. S. S.	1,11
Sub-Total of B-1				4,95
2. Labor (25% of B-1)	1		1	1,24
Sub-Total of B	1 . · ·			6,19
C. Carpentry Work				
1. Materials	1 1 1 1 20			12
(1) Nipa	60	pcs	4	1
(2) 1.5m x 1.8m, amakan	3	pcs	70	21
(3) 2x 3 x 10' Coco Lumber	20	bdft	10	20
(4) 2 x 2 x 10' Coco Lumber	33.3	bdft	10	33
(5) 3" dia. Bamboo	3	lights	20	6
(6) Assorted CWN	4	kgs.	40	16
(7) Rattan wire	20	pcs	1	2
(8) Pale (medium)	1	pc.	190	
			180	18
(9) 3" dia. PVC x 3m	1	pc.		3
(10) 3" dia. PVC Elbow	2	pcs	15	
(11) PVC solvent	1	pint	50	
(12) Ga. 31 x 8' plain Gi sht.	1	sht.	200	
Sub-Total of C-	1	·		1,75
2. Labor (25% of C-1)			1	43
Sub-Total of C	3	l İ		2,19
D. Plumbing	-1	-1		A second second
1. Material		d se set	I sa as a dal	
		1	603	6(
(1) Toilet Bowl-Squat Type		l pc.	142	
(2) 75mm dia x 6.0m PVC Pipe		I pc.	142	
Sub-Total of D-	I The second			7
2. Labor (25% of D-1)			A STATE OF A	1
Sub-Total of I	D		a set a set a set a	9.
E. Transportation Cost	1	L.S.		3
(excluding indigenous materials)			e <u>hter</u> en tek	
F. Indirect Cost			1	
Profit (10% of A - D)			· ·	1,3
	· · · ·	Har and		
VAT (10% of Profit & Labor)	_			4
Sub-Total of	Р'			1,7
Total Construction Cost		r 👘 Taki Kaj		12,9
(A+B+C+D+E+F)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 A state of the state 	Sa	y 13,0

Table 10.2.13 Unit Cost of Pour Flush with Double Pit Latrine

Note: L.S. - Lump Sum

Source: DOH standard price in 1993

Unit Cost: Adjusted to 1997 Price Level

	Description	Quantity	Unit	Unit Cost	Cost
١.	Earthwork				
1	1. Materials				
	(1) Gravel Fill	0.5	cu.m.	424	21
	Sub-Total of A-1				21
2	2. Labor			1	
	(1) Excavation	2	cu,m.	131	39
	(2) Backfill	, i	cu.m.	119	11
	(3) Gravel Fill	0.5	cu.m.	155	11
		0.5	cu.m.	133	
	Sub-Total of A-2				59
<u>.</u>	Sub-Total of A				80
B .	Concrete Work				
1	1. Materials				
	Slab on wood planks				:
	(1) 8 - 2" x 8" x 6' Coco Lumber	64	bd.ft	: · · · 8	51
	(2) 10mm dia x 6.0m Rebar	2	pcs.	54	10
	(3) #16 Tie Wire	0,5	kg.	54	4
	(4) Cement	4	bags	128	51
	(5) Sand	0.5	cu.m	335	10
	(6) Gravel	0.5	cu.m	424	2
	(7) Stone Lining with Mortar		L.S.		1,0
	Sub-total of B-1		-		2,6
	2. Labor (25% of B-1)				6
-	Sub-Total of B	· ·			3,2
Ċ.					
	1. Materials	i de la serie d			
	(1) Nipa	60	pcs	2	t
	(2) $1.5m \ge 1.8m$, amakan	3	pcs	70	2
	(3) $2x 3 \times 10^{\circ}$ Coco Lumber	20	bdft	10	2
	(4) $2 \times 2 \times 10^{\circ}$ Coco Lumber	33.3	bdft	10	3
	(5) 3" dia. Bamboo	3	lights	20	
	(6) Assorted CWN	4	kgs.	40	· · · 1
		20		+0	. ·
	(7) Rattan wire		pcs	30	
ŀ	(8) 3 x 3" hinges	2	pc.	50	
	Sub-Total of C-1		1		1,1
	2. Labor (25% of C-1)				2
	Sub-Total of C			· · · · ·	1,4
D.					
	1. Material				
Í	(1) 50mm dia. PVC Pipe	1	pc.	71	
	(2) Fly Screen		LS.]	
	Sub-Total of D-1			the set set	1
	2. Labor (25% of D-1)		l e a sera		
	Sub-Total of I				1
E.	. Transportation Cost		L.S.		1
	(excluding indigenous materials)				
F.	Indirect Cost				
	Profit (10% of A - E)			1	5
	VAT (10% of Profit & Labor)			· · · · · ·	2
	Sub-Total of I	R		1	8
-	Total Construction Cost		<u> </u>		6,6
11	(A+B+C+D+E+F)	1 ·	1	Say	

Table 10.2.14 Unit Construction Cost of Ventilated Improved Pit Latrine

Note: L.S. - Lump Sum Source: DOH standard price in 1993 Unit Cost: Adjusted to 1997 Price Level

	Description	Quantity	Unit	Unit Cost	Cost
١.	Earthwork				
1.	Materials				•
	(1) Gravel Fill	0.3	cu.m.	424	12
	Sub-Total of A-1		U G G G G G G G G G G G G G G G G G G G		12
2	Labor				12
£1,	(1) Excavation	2	<u> </u>	131	26
	(2) Backfill	0.6	cu.m.		
		0.6	cu.m.	119	7
	(3) Gravel Fill	0.3	cu.m.	155	4
	Sub-Total of A-2	: 			380
	Sub-Total of A			a de la composición d	50'
B	Concrete Work	- 			
1					
	Slab on wood planks				
	(1) 8 - 2" x 8" x 6' Coco Lumber	38	bd.ft	8	304
÷ .	(2) 10mm dia x 6.0m Rebar	1	pcs.	54	. 54
	(3) #16 Tie Wire	0.5	kg.	54	2'
	(4) Cement	3	bags	128	384
1997 - 19	(5) Sand	0.3	cu.m	335	10
	(6) Gravel	0.3	cu.m	424	12
	(7) Stone Lining with Mortar		L.S.	and the second	65
	Sub-total of B-1				1,64
2.	Labor (25% of B-1)				41
	Sub-Total of B				2,05
C.	Carpentry Work				
	Materials	- +			
	(1) Nipa	30	pcs.	2	6
	(2) $1.0m \ge 1.8m$, amakan	3	pcs.	70	
	(3) $2 \times 3 \times 10^{\circ}$ Coco Lumber	14	bd.ft	10	
	(4) $2 \times 2 \times 10'$ Coco Lumber	24	bd.ft	10	1 State
	(5) 3" dia. Bamboo	3	lights	20	
	(6) Assorted CWN	3	-	40	1
	(7) Rattan wire	14	kgs.	40	1 1 1
			pcs.		
	(8) 3 x 3" hinges	2	pcs.	30	
-	Sub-Total of C-1				90
2.	Labor (25% of C-1)				22
	Sub-Total of C				1,13
D,	Transportation Cost		L.S.		15
	(excluding indigenous materials)	· .	<u> </u>		
E.	Indirect Cost				
	Profit (10% of A -D)				37
	VAT (10% of Profit & Labor)				15
	Sub-Total of E				52
	Total Construction Cost				4,3
	(A+B+C+D+E)			Say	

Table 10.2.15 Unit Construction Cost of Pit Latrine

Note: L.S. - Lump Sum Source: DOH standard price in 1993

Unit Cost: Adjusted to 1997 Price Level

	1 of 5		T starting starting	T	(Cost: Peso)
	Description	Quantity	Unit	Unit Cost	Cost
	Mobilization and Demobilization		L.S.		5,500
3.	Earthwork		· 1		
1.	Materials				
	(1) Gravel Fill	3.00	cu.m	424	1,272
	Sub-Total of B-1				1,272
2.	Labor				
	(1) Excavation	15.88	cu.m	131	2,080
	(2) Backfill	4.97	cu.m	119	591
	(3) Gravel Fill	3.00	cu.m	155	465
	Sub-Total of B-2	:			3,137
	Sub-Total of B				4,409
	Concrete Work		а. ¹		ta ang
1.	Materials				· · · ·
	(1) Cement	61.00	bags	128	7,808
	(2) Sand	4.00	cu.m	335	1,340
	(3) Gravel	8.00	cu.m	424	3,392
	(4) Rebars: 12mm dia x 6m	38.00	pcs.	74	2,812
	10mm dia x 6m	57.00	pcs.	54	3,078
	(5) #16 Tie Wire	8.00	kgs.	54	432
	(6) Formworks:				
	1/4" Plywood	6.00	pcs.	446	2,676
	2"x2"x10" (Coco Lumber)	200.00	bd.ft.	8	1,600
	Sub-Total of C-1				23,138
2.	Labor (30% of C-1)		L.S.		6,941
	Sub-Total of C		1		30,079
D.	Masonry Work				
۱.	Materials				
	(1) 6" CHB	800.00	pcs.	6	
	(2) 4 ⁿ CHB	260.00	pcs.	5	1,300
	(3) Cement	97.00	bags	128	12,416
	(5) Sand	10.00	cu.m	335	3,350
	(6) Rebars: 12mm dia x 6m	30.00	pcs.	74	2,220
	10mm dia x 6m	11.00	pcs.	54	594
	(7) #16 Tie Wire	4.00	kgs.	54	216
	(8) Scaffolding:		<u> </u>		
	2''x4''x8'' = 10 pcs. (Coco Lumber)	53.33	bf.	8	427
	Sub-Total of D-1		1		25,323
2.	Labor (30% of D-1)	5	L.S.	. A	7,597
	Sub-Total of D		· · ·	·	32,920
E.	Roofing Work				
1.	방송 등 방송 관계를 가지 않는 것이 있는 것이 없는 것이 있는 것이 없는 것이 없 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없				
	(1) GA #26 Corr. GI $(1 = 10^{\circ})$	20.00	pcs.	290	5,800
	(2) GA #24 Pln. GI Flashing	3.00		280	
	(3) GA #24 Pln. GI Gutter (Pre-Fab)	9.00		280	
1	(4) Umbrella Nails 2 - 1/2"	12.00		46	
	(4) Sinorena (varis $2 = 1/2$ (5) Rafter - 2"x5"x18' = 5 pcs.	75.00		33	
	(6) Purlins - $2^{*}x2^{*}x12 = 18 \text{ pcs.}$	73.00		33	
1:	(b) Purlins - $2^{\circ}x2^{\circ}x12^{\circ} = 18$ pcs. (7) WD Cleats - $2^{\circ}x2^{\circ}x10^{\circ} = 6$ pcs.	20.00	1	33	

	•
Table 10.2.16	Unit Cost of School Toilet

Description	Quantity	Unit	Unit Cost	Cost
(8) Nailers - 2"x2"x1012' = 30 pcs.	120.00	bf.	33	3,96
$-2^{n}x2^{n}x10^{i} = 36$ pcs.	120.00	bf.	33	3,96
(9) Fascia Board				
1''x12''x12' = 4 pcs.	48.00	bf.	33	1,58
1''x 12''x 18' = 2 pcs.	36.00	bf.	33	1,18
(10) Wood Plate	50.00			1,10
2"x4"x20' = 2 pcs.	26.66	bf.		88
(11) 1/4" Thk. Mar. Plywood 4'x8'	14.00	pcs.	30	42
(12) C.W.N. Assorted	15.00	kgs.	30	42
(12) C.W.N. Assolited (13) 3" día x 3m Downspout (PVC)	3.00	_	85	25
	2.00	pcs.	15	
(14) 3 th dia Elbow (PVC)	2	pcs.		3
(15) 3"dia Coupling (PVC)	1.00	pcs.	14	1
(16) Ceiling Vent	0.67			
1''x1''x8' = 4 pcs.	2.67	bf.	27	7
(17) Screen (1/8"x1/8")	1.00	yd.	85	8
Sub-Total of E-1				28,12
2. Labor (30% of E-1)		L.S.		8,43
Sub-Total of E				36,55
. Carpentry Work				
1. Materials				
(1) D - 1 Hollow Core Tanguile				19
Flush Type Door w/ Louver (.80x2.20)	2.00	sets	1,514	3,02
(2) D - 2 Hollow Core Tanguile	e îter]
Flush Type Door (.60x2.10)	1.00	sets	1,136	1,13
(3) D - 3 Louver Door (.60x1.40)	5.00	sets	947	4,73
(4) Door Jambs (Apitong)				
$2^{n}x6^{n}x14^{n} = 1$ pc.	14.00	bf.	33	1
$2^{n}x6^{n}x10^{n} = 2 \text{ pcs.}$	20.00	bf.	33	60
$2^{"}x6^{"}x10^{"} = 1 \text{ pc.}$	18.00	bf.	33	59
$2^{n}x4^{n}x12^{n} = 5$ pcs.	40.00	bf.	33	1,32
(7) Wooden Jalousie Window				
With 5 Blades (.40x.50)	14.00	set	316	4,4
(8) Window Jambs (Apitong)				
2''x6''x16'' = 5 pcs.	80.00	bf.	33	2,6
$2^{n}x6^{n}x14^{n} = 1 \text{ pc.}$	14.00	bf.	33	4
2''x6''x10'' = 1 pc.	10.00	bf.		3
(9) Cabinet				1
3/4''x4'x8' = 1 pc. (plyboard)	1.00	pc.	821	8
Sub-Total of F-1				20,6
2. Labor (30% of F-1)		L.S.		6.1
Sub-Total of F				26,7
G. Tile Work	1	<u> </u>	1	
l. Materials			1	
(1) $4 - 1/4$ "x4 - 1/4" Glazed Tiles	1,950.00	pcs.		1 7,8
(1) $4 - 174 \times 4 - 174$ Glazed Thes (2) 0.10×0.20 m Floor Tiles	900.00			7 6,3
	4.00	1 · .	128	r .
(3) Cement				
(4) White Cement	1.00	bag	69:	3 1 1 1 1 1 1

Description	Quantity	Unit	Unit Cost	Co	st
2. Labor (30% of G-1)		L.S.	1		4,592
2. Labor (50% of G-1) Sub-Total of G		. С. З.			4,592
Plumbing Work					17,027
1. Materials					
(1) Toilet Bowl - Squat Type	3.00	sets	657		1,971
(2) Toilet Bowl-Sit Type	2.00	sets	657		1,314
(3) Lavatory	2.00	sets	3,000		6,000
(4) 4" dia x 3m PVC San. Pipe	4.00	pcs.	164		650
(5) 3" dia x 3m PVC San. Pipe	7.00	pcs.	- 92		644
(6) 1 1/2" dia x 3m PVC San. Pipe	4.00	pes.	58		232
(7) 2" dia. x 3m PVC San. Pipe	2.00	•	55		11(
(7) 2 that x 3m PVC San Pipe (8) 6" x 4" Floor Drain	5.00	pcs.	92		460
(9) 2" dia Elbow PVC	4.00	pes.	7		400
	2.00	pcs.	27		54
(10) 4" dia WYB PVC	1 · · · · · · · · · · · · · · · · · · ·	pcs.	and the second second		39
(11) 4" dia. x 3" dia. WYB PVC	12.00	pcs.	33	1.0	59
(12) 4" dia. x 2" dia. TEE PVC	2.00	pcs.	34	·	
(13) 4" dia. TEE PVC	3.00	pcs.	34		10
(14) 1 1/2" dia. WYB PVC	1.00	pcs.	13		1
(15) 4" dia. Clean Out PVC	3.00	pcs.	38		11
(16) 3" dia. Clean Out PVC	1.00	pcs.	30		3
(17) Faucet	3.00	pcs.	55		16
(18) 3" dia. x 2" dia. WYB PVC	2.00	•	27		5
(19) 1 1/2" dia. Elbow PVC	6.00	pcs.	14		8
(20) PVC Cement	1.00	can	133		13
(21) 2" dia. PVC San. Pipe x 3m	2.00	pcs.	87	1 · · ·	17
(22) 4" dia. x 2" dia. TEE	2.00	pcs.	23	4	4
(23) Check Valve 1 1/2"	1.00	pcs.	200		20
(24) 4" P-Trap	5.00	pes.	72		36
Sub-Total of H-1				$(-+)^{-1}$	13,40
2. Labor (30% of H-1)		L.S.			4,02
Sub-Total of H	t i		1. A	[17,43
. Painting		1			
1. Materials			14		
(1) Acrylic, Semi Gloss	8.00	gals.	276	5	2,20
(2) Concrete Sealer	4.00		218	[-2, -2]	87
(3) Acri Color: Wood	4.00	gals.	84		33
(4) Enamel, QDE	6.00	-	282		1,69
(5) Wood Putty	1.00		320		32
(6) Paint Thinner	1.00			1	
(7) Tinting Color	4.00		42	1	16
(8) Sand Paper (Assorted)	15.00				10
	10.00	L.S.			1,00
(9) Misecellaneous	2.00	1	298		- 59
(10) Roof Paint (green, ready-mix)	4	gais.	290	'}	7,42
Sub-Total of I-	1	10			2,2
2. Labor (30% of I-1)	I a e	L.S.			2,2 9,6

Table 10.2.16 Unit Cost of School Toilet

	Description	Quantity	Unit	Unit Cost	Cost	
• 1.	Electrical Work				·····	
1.	Materials				1. A.	
	(1) 40 Watts Flourescent Lamp	2.00	sets	270	1994 - ¹ 997	54(
	(2) Elect. Wire TW #12	24.00	М	. 7		168
	(3) Elect. Conduit - 1/2" dia x 10"	4.00	pcs.	82		328
	(4) Entrance Cap. 1/2" dia	1.00	pc,	30		30
	(5) Switch Outlet, Flush Type	2.00	pcs.	41		82
	(6) Utility Box 2"x3"	2.00	pcs.	7	1	14
	(7) Porcelain Receptacle 2" dia	2.00	pcs.	7		14
	(8) Safety Switch 60A, 250V	1.00	set	519		519
	(9) Electrical Tape	1.00	roll	23		2.
	Sub-Total of J-1	1.00	rott .	23		
2	Labor (30% of J-1)		L.S.			1,718
<i>z</i> .			ட.э.			515
	Sub-Total of J	· · · · · · · · · · · · · · · · · · ·	and the second			2,23
ζ.	Hardware					t.
	Materials	10.00				
	(1) 3"x3" Butt Hinges (Loose Pin)	10.00	- · · ·	15		15
	(2) 4"x4" Butt Hinges (Loose Pin)	12.00	pcs.	19		22
	(3) Door Lockset (Schlage US)	3.00	pcs.	481		1,44
	(4) Barrel Bolt (4")	5.00	pcs.	42		21
-	(5) Cabinet Pull (4")	5.00	pcs.	- 7	1999 - A.	3
	(6) Water Storage Cover		· ·			
	Checkered Plate 1/4" thick	-			AN AN AN	
	1.44x0.645 w/ L bar & flat bar	1.00	set	1,043	199	1,04
	0.645x0.633 w/ L bar & flat bar	2.00	set	-588	1.11	1,17
	(7) Padlock	. 1.00	pcs.	401	e set e e s	40
	Sub-Total of K-1			1.1.1.1	4.1	4,68
· 2.	Labor (30% of K-1)		L.S.	1. T		1,40
· .	Sub-Total of K			1 galaxies	[6,09
	Septic Tank and Sewage Basin					
1.	Materials				(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	
	(1) 4" CHB	180.00	pcs.	5	a sulta	90
	(2) Cement	18.00	1 1	128	1.1.1	2,30
	(3) Sand	1.50	· · ·	335	1	50
	(4) Gravel	1.00		424	1	42
	(5) Rebars: 10mm dia x 6m	29.00		74		2,14
	(6) #16 Tire Wire	2.00	1 1	54		10
	(7) Formworks: Coco Lumber		63			10
	2''x3''x10' = 12 pcs.	60.00	bf.	8		48
	1/4" plywood ord. 4'x8'	2.00		446		- 40
	C.W.N. (Assorted)	2.00	kgs.	31		6
-	. Labor (30% of L-1)				1	7,81
		 A. A. A	L.S.			2,34

Table 10.2.16 Unit Cost of School Toilet

	Description	Quantity	Unit	Unit Cost	Cost
M.	Shallow Well (18 depth)				
a.	Drilling of Well & Installation of				
	Steel Casing/Screen				
١.	Materials				
	(1) 63mm x 6m PVC Pipe with socket	2.00	pcs.	896	1,79
	(2) 63mm x 3m PVC Pipe with plug	1.00	pc.	452	45
	(3) 63mm PVC Socket	1.00	pc.		
	(4) 63mm x 3m PVC Screen	1.00	pc.	1,433	1,43
+	Sub-Total of M-a-1		<i>p</i>	1,100	3,77
2.	Labor, Fuel, Lubricant and others				5,77
	Well Drilling for 18m depth at				
	150mm borehole	18.00	m	573	10.21
	Sub-Total of M-a	10.00	- HI 	575	10,31
h	Well Development		L.S.		14,09
υ.	тен метеюршен		L.S.		55
	Gravel Packing, Installation of Hand-				
ç.					
,	Pump and Construction of Platform				
1.	Materials				
	(1) 50mm Jetmatic Handpump	1.00	set	2,623	2,62
	(2) 50mm x 1m GI Pipe (Sch. 40)	1.00	pc.	82.	·. 8
	(3) #10 Sieved Gravel	0.10	cu m	959	<u> </u>
	(4) Coarse Sand	0.07	cu.m	474	3
	(5) Cement for Sanitary Seal	1.00	bag	128	12
	(6) Pump Base and Platform			10 C	
	1) Cement	4.00	bags	128	51
	2) Gravel	1.00	cu.m	424	42
	3) Sand	1.00	cu.m	335	33
	4) Plywood (1,200mm x 2,400mm x 6mm)	1.00	pc.	446	44
	5) Form Lumber (50mmx75mmx1,800mm)	1.00	pc.	49	÷ , 2
	6) Nail	1.00	kg.	31	1
	Sub-Total of M-c-1		-		4,75
2.	Labor (40% of M-c-1)		L.S.		1,90
	Sub-Total of M-c				6,60
	Sub-Total of M				21,30
N.	Freight Cost (11% of Materials for A - M		L.S.		16,08
	excluding sand and gravel)		1.1.0*		10,00
0.	Indirect Cost	· · ·			
	Profit (10% of A - N)			and a set	23,9
	VAT (10% of Profit & Labor)				7,32
	VAT (10% of From & Labor)			an the second	31,23
	Total of Construction Cost				270,34
н. н. 199	(A to O)				£70,34
P.	(A to O) Estimated Government Expenses		<u> </u>		
	Preliminary & Detailed Engineering Cost	· ·	1.0		
			L.S.	1	2,20
. 4	Construction Supervision		L.S.		1,6
	Sub-Total of P				3,8
1	GRAND TOTAL	1 A A	1 .		274,14

Table 10.2.16 Unit Cost of School Toilet

Source: DOH standard price in 1993. Unit Cost: Adjusted to 1997 Price Level

Table 10.2.17 Unit Cost of Public Toilet

					(Cost: Peso
	Description	Quantity	Unit	Unit Cost	Cost
A .	Mobilization and Demobilization (2.4% of B - M)		L.S,		6,80
B. 1	Earthwork				
١.	Materials				
	(1) Gravel Fill	3.00	cu.m	424	1,27
2	Sub-Total of B-1 Labor				1,27
2.	(1) Excavation	15.88		131	2.00
	(2) Backfill	4.97	cu.m	131	2,08
	(3) Gravel Fill	3.00	cu.m cu.m	119 155	59
	Sub-Total of B-2	5.00	cu.m	133	46
	Sub-Total of B-2				3,13 4,40
С.	Concrete Work		· · · · · · · · · · · · · · · · · · ·		
1.	Materials				
	(1) Cement	61.00	- -	128	7,80
· .	(2) Sand	4.00	cu.m	335	1,34
	(3) Gravel	8.00	cu.m	424	3,39
	(4) Rebars: 12mm dia x 6m	38.00	pcs.	74	2,81
	10mm dia x 6m	57.00	pcs.	52	2,96
	(5) #16 Tie Wire	8.00	kgs.	52	41
	(6) Formworks:	c 00			
	1/4" Plywood 2"x2"x10" (Coco Lumber)	6.00	A 1 24	446	2,67
		200.00	bd.ft.	8	1,60
. ว	Sub-Total of C-1 Labor (30% of C-1)				23,00
£.,	Sub-Total of C				6,90 29,91
D.	Masonry Work				49,9
	Materials				
	(1) 6" CHB	800.00	pcs.	6	4,80
÷.	(2) 4" CHB	260.00	1 1	- 5	1,30
	(3) Cement	97.00		128	
	(5) Sand	10.00		335	1 2 S S S S S S S
	(6) Rebars: 12mm dia x 6m	30.00	pcs.	74	2,2
	10mm dia x 6m	11.00		54	
• •	(7) #16 Tie Wire	4.00		54	2
	(8) Scaffolding:				
	2"x4"x8" = 10 pcs. (Coco Lumber)	53.33	bf.	8	4
	Sub-Total of D-1				25,3
2	. Labor (30% of D-1)				7,5
· .	Sub-Total of D		and the second	1. 31. A. L.	32,9
E.	Roofing Work				
	. Materials			1.1.1.1.2.1.1.1.1	
	(1) GA #26 Corr. GI $(1 = 10')$	20.00		290	
	(2) GA #24 Pln. GI Flashing	3.00	1	280	1
	(3) GA #24 Pln. GI Gutter (Pre-Fab)	9.00	1 -	280	
	(4) Umbrella Nails 2 - 1/2"	12.00	1	46	
	(5) Rafter - $2''x5''x18' = 5$ pcs.	75.00	bf.	33	2,4

Table 10.2.17 Unit Cost of Public Toilet

Sheet 2 of 5 Cost: Peso)						
	Description	Quantity	Unit	Unit Cost	Cost	
	5) Purlins - $2''x2''x12' = 18 \text{ pcs.}$	72.00	bf.	33	2,370	
	7) WD Cleats - $2''x2''x10'' = 6$ pcs.	20.00	bf.	33	660	
8)	8) Nailers - $2''x2''x1012' = 30$ pcs.	120.00	bf.	33	3,960	
1.1	-2''x2''x10' = 36 pcs.	120.00	bf.	33	3,960	
(9	D) Fascia Board				н	
· .	1''x12''x12' = 4 pcs.	48.00	bf.	- 33	1,584	
	1''x12''x18' = 2 pcs.	36.00	bf.	33	1,18	
(1	10) Wood Plate					
	2''x4''x20' = 2 pcs.	26.66	bf.	33	880	
· (1	11) 1/4" Thk. Mar. Plywood 4'x8'	14.00	pcs.	479	6,700	
(1	12) C.W.N. Assorted	15.00	kgs.	30	450	
	13) 3" dia x 3m Downspout (PVC)	3.00	pcs.	85	25	
	14) 3" dia Elbow (PVC)	2.00	pcs.	15	31	
	15) 3"dia Coupling (PVC)	1.00	pcs.	14	14	
	16) Ceiling Vent, 1"x1"x8', 4 pcs.	2.67	bf.	27	7:	
•	17) Screen (1/8"x1/8")	1.00	yd.	85	8	
	Sub-Total of E-1	1.00	Ju.		34,40	
2 L	abor (30% of E-1)				10,32	
. 2, 1	Sub-Total of E				44,72	
F. C	Carpentry Work		<u>.</u>			
	Aaterials					
	1) D - 1 Hollow Core Tanguile					
(Flush Type Door w/ Louver (.80x2.20)	2.00	aoto	1,514	2.02	
	 2) D - 2 Hollow Core Tanguile 	2.00	sets	1,514	3,02	
		1.00		1.120	1.13	
	Flush Type Door $(.60x2.10)$	1.00	sets	1,136	E	
-	3) D - 3 Louver Door (.60x1.40)	5.00	sets	947	4,73	
- (4	4) Door Jambs (Apitong)	1 00				
	$2^{"}x6^{"}x14^{"} = 1 \text{ pc.}$	14.00	bf.	33	E	
	2''x6''x10'' = 2 pcs.	20.00	bf.	33		
÷	2''x6''x10'' = 1 pc.	18.00	1	33		
	2"x4"x12" = 5 pcs.	40.00	bf.	33	1,32	
. ' ('	7) Wooden Jalousie Window	. 1				
÷	With 5 Blades (.40x.50)	14.00	set		4,17	
(8) Window Jambs (Apitong)	. 1		the second second		
	2"x6"x16" = 5 pcs.	80.00		33	2,64	
	2''x6''x14'' = 1 pc.	14.00	⊢ bf:	33	46	
	$2^{n}x6^{n}x10^{n} = 1$ pc.	10.00	bf.	33	33	
··· (9) Cabinet	and the second				
	3/4"x4'x8' = 1 pc. (plyboard)	1.00	pc.	821	82	
	Sub-Total of F-1				20,36	
2. I	Labor (30% of F-1)				6,10	
	Sub-Total of F				26,40	
G . 7	File Work	1	1	1		
	Materials			av ta		
	(1) 4 - 1/4"x4 - 1/4" Glazed Tiles	1,950	pcs.	4	7,80	
	(2) $0.10 \times 0.20 \text{m}$ Floor Tiles	900.00			6,30	
		4.00	1	128		
	(3) Cement	4,00	bags	1120	<u>ر ا</u>	

Sheet 3 of 5

Table 10.2.17 Unit Cost of Public Toilet

	Description	Quantity	Unit	Unit Cost	Cost
	(4) White Cement	1.00	bag	693	693
	(5) Tiles Fittings		L.S.		5,280
	Sub-Total of G-1				20,585
2.	Labor (30% of G-1)				6,176
	Sub-Total of G				26,761
H.	Plumbing Work				20,701
1.	Materials				
	(1) Urinal	3.00	sets	1,171	3,513
	(2) Toilet Bowl - Squat Type	6.00	sets	657	3,942
	(3) 4" dia x 3m PVC San. Pipe	6.00	pcs.	164	984
	(4) 3" dia x 3m PVC San. Pipe	4.00	pcs.	92	
	(5) 2" dia x 3m PVC San. Pipe	3.00	pcs.	55	368
	(6) 3/4" dia x 6m G.I. Pipe Sch. 40	5.00	pcs.		165
	(7) $1/2^{10}$ dia x 6m G.I. Pipe Sch. 40			269	1,345
	(8) $4^{\mu}x4^{\mu}$ WYE PVC	1.00 1.00	pcs.	197	197
	(9) 3" dia Elbow PVC		pcs.	27	27
	(10) 3" dia 45 degrees Bend PVC	10.00	pcs.	33	330
	(11) 2" dia Elbow PVC	2.00	pcs.	27	54
ала 1940 г. – С	(12) 2" dia 45 degrees Bend PVC	6.00	pcs.	1	42
	• • • • • • • • • • • • • • • • • • •	2.00	pcs.	22	
	(13) 1/2" dia Elbow G.I.	5.00	pcs.	11	55
	(14) 4" dia 3" dia WYE PVC	8.00	pcs.	44	352
	(15) 3/4" dia TEE G.I.	7.00	pcs.	44	308
	(16) 1/2" dia TEE G.I.	5.00	pcs.	22	110
	(17) 4" dia x 2" dia TEE PVC	6.00	pcs.	44	264
	(18) 4" dia Clean Out PVC	3.00	pcs.	38	114
	(19) 2" dia Clean Out PVC	1.00	pcs.	27	27
	(20) Faucet	10.00	pcs.	55	550
	(21) 3" dia x 2" dia Elbow Reducer PVC	1.00	pcs.	30	30
	(22) 3" dia x 2" dia WYE PVC	3.00	pcs.	27	.81
	(23) 2" dia x 2" dia WYE PVC	3.00	pcs.	16	48
	(24) PVC Cement	1.00	can	133	133
	(25) 4" dia x 2" dia WYE PVC	2.00	pcs.	44	88
	(26) Gate Valve 3/4" dia	1.00	pcs.	133	133
	(27) Gate Valve 1/2" dia	1.00		105	105
	(28) Water Meter 3/4" dia	1.00		1,390	1,390
	(29) 3/4"dia x1/2"dia Elbow Reducer G.I.	1.00	pcs.	15	15
	Sub-Total of H-1		F		14,814
2.	Labor (30% of H-1)				4,444
	Sub-Total of H		1.1 L	e to the court).	19,258
[.]	Painting				17,230
1.	Materials				
	(1) Acrylic, Semi Gloss	8.00	gals.	276	2,208
	(2) Concrete Sealer	4.00		218	2,208
	(3) Acri Color: Wood	4.00		84	
	(4) Enamel, QDE	6.00			336
	(5) Wood Putty			282	1,692
÷	(6) Paint Thinner	1.00	1	320	320
		1.00	gals.	63	63

	Description	Quantity	Unit	Unit Cost	Cost
	(7) Tinting Color	4.00	pint	42	16
	(8) Sand Paper (Assorted)	15.00	pcs.	7	10
	(9) Misecellaneous		L.S.		1,06
	(10) Roof Paint (green, ready-mix)	2.00	gals.	298	.59
	Sub-Total of I-1	2.00	Bailor .	. 220	
2	Labor (30% of I-1)				7,42
	Sub-Total of I	$(1,2,\ldots,n_{n-1})$	an a		2,22
J.	Electrical Work			· · · · · · · · ·	9,65
1.	Materials				
	(1) 40 Watts Flourescent Lamp	2.00	a a ta	270	
	(2) Elect. Wire TW #12	1.7	sets	270	54
		24.00	М	7	16
	(3) Elect. Conduit - 1/2" dia x 10"	4.00	pcs.	82	32
	(4) Entrance Cap. 1/2" dia	1.00	pc.	30	1
	(5) Switch Outlet, Flush Type	2.00	pcs.	41	8
	(6) Utility Box 2"x3"	2,00	pcs.	7	1
· ·	(7) Porcelain Receptacle 2" dia	2.00	pcs.	7	1
	(8) Safety Switch 60A, 250V	1.00	set	519	51
	(9) Electrical Tape	1.00	roll	23	2
	Sub-Total of J-1				1,71
2	Labor (30% of J-1)				
L .	Sub-Total of J				51
К.	Hardware Sub-10tar 013				2,23
	Materials				·
1.		10.00			
÷.,	(1) 3"x3" Butt Hinges (Loose Pin)	10.00	pcs.	15	. 15
	(2) 4"x4" Butt Hinges (Loose Pin)	12.00	pcs.	19	22
	(3) Door Lockset (Schlage US)	3.00	pcs.	481	1,44
	(4) Barrel Bolt (4")	5.00	pcs.	42	21
	(5) Cabinet Pull (4")	5.00	pcs.	7	3
	(6) Water Storage Cover				
	Checkered Plate 1/4" thick				· · · ·
14.1 	1.44x0.633 w/ L bar & flat bar	1.00	set	1,043	1,04
	(7) 0.645x0.633 w/ L bar & flat bar	2.00	set	588	1,17
	(8) Padlock	1.00	pcs.	401	40
•	Sub-Total of K-1	1.00	P03.	1.07	
	Labor (30% of K-1)	:		$(-1)^{-1} \in \mathbb{R}^{n} \setminus \mathbb{R}^{n}$	4,68
۷.					1,40
<u>,</u>	Sub-Total of K		<u> </u>		6,09
_ د. ۱.	Septic Tank and Sewage Basin				
1.	Materials			1.14	
	(1) 4" CHB	180.00	pcs.	5	90
	(2) Cement	18.00	bags	128	2,30
	(3) Sand	1.50	cu.m	335	50
				424	42
	(4) Gravel	1.004	i u.m	94441	
	(4) Gravel(5) Rebars: 10mm dia x 6m	1.00 29.00	pcs.	74	2,14

Table 10.2.17 Unit Cost of Public Toilet

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Sheet 5 of 5

Table 10.2.17 Unit Cost of Public Toilet

Description	Quantity	Unit	Unit Cost	Cost
(7) Formworks: Coco Lumber				
2''x3''x10' = 12 pcs.	60.00	bf.	8	48
1/4" plywood ord. 4'x8'	2.00	pcs.	446	89
C.W.N. (Assorted)	2.00	kgs.	31	6
Sub-Total of L-1				7,81
2. Labor (30% of L-1)		. * .		2,34
Sub-Total of L		-	.	**************
I. Concrete Water Tank (Elevated)				10,16
1. Earth Work			· · ·	•
(1) Materials			e e e dy -	1.1
1) Gravel Fill	1.00			
	1.00	cu.m	424	42
Sub-Total of M-1 (1)		4 4 E		42
(2) Labor				
1) Excavation	14.70	cu.m	131	1,92
2) Backfill	13.08	cu.m	119	1,55
3) Gravel Fill	1.00	cu.m	155	15
Sub-Total of M-1 (2)				3,63
Sub-Total of M-1				4,06
2. Materials				
(1) Cement	62.00	bags	128	7,93
(2) Sand	4.50	cu.m	335	1,50
(3) Gravel	8.00	cu.m	424	3,39
(4) Rebars: 12mm dia x 6m	160.00	pcs.	54	8,64
(5) #16 Tie Wire	4.00	kgs.	54	21
(6) Formworks:	1.00	nga.		21
1/4" plywood	12.00	man	446	E DE
2''x3''x16' = 60 pcs.	480.00	pcs. bf.		5,35
(7) C.W.N. (Assorted)	5.00	and the second	8	3,84
Sub-Total of M-2	5.00	kgs.	31	15
3. Labor (30% of M-2)		1		43,22
				12,96
Sub-Total of M Freight Cost (11% of Materials for A - M	· · ·			60,25
				20,84
excluding sand and gravel)				
		:	and the spin	an an Alla An Anna Anna Anna Anna Anna Anna Anna
Profit (10% of A - M)				30,04
VAT (10% of Profit & Labor)				9,78
Sub-Total of O				39,83
Total of Construction Cost				340,32
(A to O)				
. Estimated Government Expenses				
1. Preliminary & Detailed Engineering Cost		L.S.		2,20
2. Construction Supervision		L.S.	1. 12 ^{1, 464}	1,60
Sub-Total of P		·		3,80
GRAND TOTAL		·		344,12
			Say	344,12

Source: DOH standard price in 1993. Unit Cost: Adjusted to 1997 Price Level

10.2.2 Unit Cost of Equipment

Unit cost (CIF Manila) of equipment was referred to the market price in 1997 as follows.

(1) Medium size rotary drilling rig

Type: Truck-mounted top head drive mud circulation type

Rated drilling capacity: 150 m depth for ϕ 250 mm bore hole

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: 150 m depth for \$250 mm bore hole

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/sq.cm, 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 winchUnit cost:Peso 590,000 per unit

(6) Refuse collection truck

Type: Closed type compactor truck with 5 cu.m 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 10,000 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 15,300 per unit

10.2.3 Cost of Laboratory and Equipment

Required cost for new laboratory including building/facility and instruments/chemicals and additional cost for upgrading of existing laboratory are shown in Table 10.2.18 and Table 10.2.19, respectively.

Table 10.2.18	Cost for New Laboratory	i

Item	Unit	Unit Cost (Pesos)	Qty.	Amount (Pesos)
1.Building				
New Building	m ²	15,000	57	855,000
2.Instruments				
Turbidity meter	set	35,000	: 1	35,000
Color meter	set	9,800	1	9,800
pH/Residual chlorine cheker	set	15,000	1	15,000
Incubator	set	100,000	1	100,000
Refrigerator	set	25,000	2	50,000
Sterilizer	set	50,000	1	50,000
Water quality testing kits	set	300,000	1	300,000
Electric stove	set	1,000	I	1,000
Range hood	set	10,000	1	10,000
Sub-total				570,800
3 Accessories	-			
Sink	L.S.			
Working table	L.S.			
Shelf	L.S.			
Office desk	L.S.			
Chair	L.S.			
Sub-total				60,000
4.Glassware/Chemicals				
Glassware/Chemicals	L.S.			100,000
Total				1,585,800

Table 10.2.19 Cost for Upgrading Laboratory

Item	Unit	Unit Cost (Pesos)	Qty.	Amount (Pesos)
1.Instruments				
Turbidity meter	set	35,000	1	35,000
Color meter	set	9,800	1	9,800
pH/Residual chlorine cheker	set	15,000	1	15,000
Incubator	set	100,000	0	0
Refrigerator	set	25,000	1	25,000
Sterilizer	set	50,000	0	0
Water quality testing kits	set	300,000	$\sim 10^{-1}$	300,000
Electric stove	set	1,000	1	1,000
Range hood	set	10,000	1	10,000
Sub-total				395,800
2.Glassware/Chemicals				
Glassware/Chemicals	L.S.			50,000
Total				445,800

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Table 10.3.1 Construction Cost of Water Supply Facilities Required for Phase I (2003)	

	, ,			-	Rur	Rural Water Supply	pply				
· · ·	Urban				New System	u U			1 10000 1		
Name of Municipality	water				Lev	Level I			Debebil	Total	Total
	Supply	Level II		Deep Well		Shallow	Spring	Subtatal	toffon	I ULAI	1 114
	Trevel III	I	40 m	80 m	120 m	Well	Dev.	OUDUNIAI	ומחחם	1	1
Alubilid	2,899		4,219			19	1,341	5,621	114	5,735	8,633
Balingasag	18,383	4,995	12,130			1,827	6,033	19,990	328	25,312	43,695
Balingoan	1,882										1,882
Binuangan	1,107										1,107
Claveria	20,899			2,695		487	1,341	4,522	43	4,565	25,464
El Salvador	2,948		5,274			1,218	2,681	9,173	142	9,316	12,264
Gingoog City	16,252				- 						16,252
Gitagum		895								895	895
Initao			2,901			122	670	3,693	78	3,771	3,771
Jasaan	9,717		1,319				670	1,989	36	2,024	11,741
Cinoguitan	488		1,846				670	2,516	50	2,566	3,054
agonglong	5,203		3,164			974	2,011	6,150	85	6,235	11,438
aguindingan											
ibertad	1,636	1,920	2,637			365	1,341	4,343	11	6,335	7,970
Lugait											
Magsaysay	275			38,174			6,703	44,877	605	45,482	45,756
Manticao	2,374	923	2,110			731	1,341	4,181	57	5,161	7,535
Medina			1,055			244	670	1,969	28	1,997	1,997
Vaawan	2,025		2,373			1,218	2,011	5,602	64	5,666	7,692
Opol	18,889		13,449			2,071	6,703	22,222	363	22,585	41,474
Salay			2,373			61	670	3,105	64	3,169	3,169
Sugbongcogon											
lagoloan	14,965						 				14,965
Talisayan	4,379		8,175			731	3,352	12,257	221	12,478	16,856
Villanueva	12,075		14,504				4,022	18,525	392	18,917	30,95
Provincial Total	136.304	8.734	77.528	40.868		10.109	42.229	170.734	2.741	182.209	318.603

10.3 10.3 Cost of required Facilities10.3.1 Cost of Required Facilities Cost of required Facilities and Equipment

					Rural Water Supply	er Supply				
	Urban –			New System	vstem			T evel T		Grand
Nome of Municipality	Water –			Level	el I			Rehahili-	Total	Total
	Supply	P	Deep Well	1 1		Spring	Subtotal	tation		
		40 m	80 m	120 m	Well	Dev.				
	16121	25 843			609	1,341	27,792	698	28,490	44,61
Alubijia	22 702	27.678			3.410	6,033	32,121	612	32,734	66,437
iBalmgasag	27.00	2 000			122		3,122	78	3,200	10,965
Balingoan	10/1	0000					3.428	93	3,521	9,654
Binuangan	0,134	0,440	18 413		3.715	1.341	23,469	292	23,761	62,687
Clavena	10 621	26 10K	277 277 277		5.968	2.681	34,756	705	35,461	46,092
El Salvador	10,01	26 201			914		37,304	983	38,287	94,040
Cingoog City	1017						10,548	285	10,833	12,750
Gitagum	1,71/1	10,040			670	670	13,470	328	13,798	14,329
Initao	1150	74 788				670	25,458	699	26,127	94,799
Jasaan	00,0/1	15 205				670	15,965	413	16,378	22,015
Kınogultarı	7 202	7.647			2.558	2,011	12,216	206	12,422	20,315
Lagonglong	2 2000	14 767					14,767	399	15,166	18,374
Laguindingan	7 2201	3 956			609	1,341	5,905	107	6,012	13,892
Libertad	5 301	7 120					7,120	192	7,312	12,613
	7 208	2244	49 401			6,703	56,104	783	56,887	64,185
Magsaysay	16 146	10.01			3.410	1,341	14,772	271	15,042	31,188
Manucao	4 041	9 493			2,192		12,356	256	12,612	16,653
Medilla	5 580	3 956			2,071	2,011	8,037	107	8,144	13,724
INad Wall	16 400	10 514			2,984	6,703	29,201	527	29,728	46,217
Upol	72 365	7 011			183	670	8,764	214	8,978	32,342
Salay	100,07	1176/					3.428	93	3,521	20,166
Sugbongcogon	10,040	0,440					, ,			95,387
Tagoloan	100,04	100 01			1 718	3 352	17.491	349	17,840	36,540
Talisayan	18,/00	12,721			2 +			826	35,437	57,779
Willanueva	742,242	700,00								

rmicipality F	Hot			Tirban Sanitation	. 6/	•		-		•		Kural Sanitation	nuation			Ī
Municipality	1011	University Thilate						Total		Hou	Household Toilets	lets				Total
Municipality				1.1.4.1.2	Public		Total	Public				Sub-total Sub-total	Sub-total	Public	Total	Public
	Pour		,	of Public	School	Public Toilets	Cons- truction	Invest-	Flush	Pour	VIP/Dry	of Cons-	of Public	School Toilete	truction	Invest- ment
	Flush		truction Cost	Invest- ment	loilets	· · ·	Cost	Cost	<u></u>	r iusn		Cost	ment		Cost	Cost
		496	0401		822	1.032	7.823	1.855		18,382	1,749	20,131	211	2,193	22,324	2,404
	12121	200	17021	15	1 645	1.032	19.918	2.730		26.871		26,871	309	4,112	30,983	4,421
	1,010	070	2 205		548	1.032	5.537	1.581		741	475	1.216	6	822	2,039	831
		1451	1 477			1.032	2,454	1.032			416	416		274	. 690	274
	A 275	2	28.040	78		1.032	29.072	1,111	8,989	36,517		45,506	420		45,506	420
	010	623	7 611	,		1.032	8,643	1,0331	10,416	21,216	3,227	34,859	244	. 548	35,407	792
	2 001	3-0	3 081	35	4 112	1.032	8.225	5.179	-		1,472	ŀ		7,127	8,598	7,127
	100%	750	7 7 28			1 032	3.271	1.032		1.625	904		19	•	2,529	61
E		722	6 633			1 012	7,665			12.376		12,376	142	548	12,924	691
		726 6	119 66		0101	1.032	25.562		5,006	610'9	488	11,513	69	1,371	12,883	1,440
Jasaan 20,200		926	2210.22			1.032	3.187			8,476	1,016	9,492	26	:	9,492	67
		1224	110		548	1 032	5,700	1.581	4,814	4,420	1,492	10,725	51	1,919	12,644	1,970
		<u>C</u>	2714		2	1 032	3.461	1.032	5.112			5,112			5,112	
gan	-	22	2 611.			1.032	4.644	1.032		1,833	429	2,262	21		2,262	21
		202	110 C		9601	1 032	8.885	2.129	2.961	5,629	917	9,507	65	1,371	10,878	1,435
Lugart	550		1 858	6		1.032	2.891	1,039		26,663		26,663	307	2,467	29,130	2,774
Mentions 7 007	040	40	2.991	11		1,032	4,023	1,043		8,697		8,697	100		8,697	100
		673	6.083		548	1,032	7,664	1,581	5,858	6,513	1,214	13,585	75	1.371	14,955	1,445
		212	317	1 1 1 1		1.032	1,349	1,032		4,381		4,381	50		4,381	50
0401 7 5401	5 2 9 5		13.793	62	1.096	1.032	15,922	2,191	:	5,668	• •	5.668	65	3,015	8,683	3,080
	689		1481	~	822	1.032	3,336			3,783.	1.307	5.090	44	1,371	6,460	1,414
Curchonecordin 3 477			3.901			1,032	4,933	1,032	1,172		363	1,535			1,535	
Transformer 41.918		5.920	47,839		6,853	1,032	55,723									
	1.248	548	6.226	14	1	1,032	7,259	1,047		12,961	970	13,931	[49]		13,931	149
	1,079	561	12,290	12	1,371	1,032	14,693	2,415	5,155	9,672		14,8271		1.645	16,471	1,756
rial Total	24,531		214.651	282	21.380	25,808	261,838	47,469	49,480	222,443	16,441	288,364	2.558	30.151	318.515	32,709

Table 10.3.3 Cost for Sanitation Facilities Required for Phase I (2003)

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3,550 | Table 10.3.4 Cost Urban Sanitation Urban Sanitation Invest- of Public School Invest-

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Household Tuitets
 | Rural Sanitation
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| Name of
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7,050 |

 | Cost for
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Toilets
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Cost | ities Req
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1.870 | uired fo | r Phase I | Hour Flush | usehold Toi
 | Rural S2
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| Name of
Municipality
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 | Cost for
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822 | Public
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Urban | r Phase I | H (2010)
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Cost | Total
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Ement Cost
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of Cons-
 | Sub-total
of Public | Public
School | Cons- | Public
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| bijid
ingasag | 13,909
26,710 | 1.001 | | 14,910
28,036
7,050 | 12

 | 822 | 1.032 | 16.765 | 1.866 | | | | VIP/Dry
 | truction
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 | Invest-
ment | Toilets | Cost | ment Cost
 |
| ingasag
inonan | 26,710 | 1.326 | | 28,036
7,050 | 15

 | 822 | 1,032 | | 1.870 | | | 32.877 |
 | 32,877
 | 378 | 7,127 | 40,004 | 7,505
 |
| ingoan. | | | | 7,050 |

 | | 1,032 | 29,891 | | 57.466 | | 59,254 |
 | 59,254
 | 681 | 13,705 | 72,959 | 14,386
 |
| | 7.050 | | | 3.589 |

 | | | 8.083 | 1.032 | | | 5,993 |
 | 5.993
 | 69 | 1,645 | 7.638 | 1.714
 |
| uangan | 3.238 | 351 | | | 4

 | | 032 | 4.621 | 1,036 | - | | |
 | 6.084
 | 70 | 1.371 | 7,455 | 1,440
 |
| veria | 47,052 | 2,847 | | 49,899 | 33

 | 1,645 | -1,032 | 52.576 | 2,710 | 100,616 | 30.906 | • |
 | 54,527
 | 272 | 10.964 | 65,491 | 11.236
 |
| El Salvador | 17.104 | 2,288 | | 19.392 | 26

 | 822 | 1,032 | 21.247 | 1,881 | | 13,014 | |
 | 69,772
 | 503 | 11./86 | 20. 201 | 12,459
 |
| Gingoog City | 13,675 | 18,200 | | 31.875 | 209

 | 1,645 | 1.032 | 34,552 | 2.885 | 175"671 | /8,448 | |
 | 13 577
 | 156 | 2 015 | 125 21 | 171 5
 |
| Gitagum | 4,324 | 6 | | 4,415 |

 | | 2001 | CVE 11 | 1 037 | | | 20.696 |
 | 20.696
 | | 5.756 | 26.452 | 5.994
 |
| nitao | 10,001 | 7 870 | : | 1001 59 | 10

 | 147 6 | 1.032 | 66.882 | 3.864 | 112.603 | 21,066 | · · . |
 | 40.800
 | 1 | 6,304 | 47,104 | 6.531
 |
| dail
omiten | 10710 | 128 | | 6.175 | 101

 | | 1,032 | 7.207 | 1,042 | | | |
 | 20.982
 | | 3.837 | 24.819 | 4,079
 |
| onelong | 8,627 | 793 | | 9,420 | 6

 | | 1,032 | 10,452 | 1,041 | | 18,169 | ÷., |
 | 33,834
 | | 5.482 | 39,316 | 5,662
 |
| aguindingan | 5.900 | 585 | | 6,485 | 7

 | | 1,032 | 7,517 | 1.039 | | 19,064 | |
 | 35,210
 | 186 | 5.756 | 40,966 | 244.0
 |
| ibertad | 7,072 | | | 7.072 | Ĭ

 | | 1,032 | 8,104 | 1,032 | | 1122 | 3 2 1 5 |
 | 11 076
 | | 2.741 | 13.767 | 2.779
 |
| ugait | 12.780 | 5100 | | 12.//95 |

 | 717 | 1 027 | | 1035 | | | 40.248 |
 | 40.248
 | 4 | 9.319 | 49.567 | 9,782
 |
| gsaysay | | 1 572 | | 16.653 | 18

 | \$48 | 1.032 | | 1.599 | | | 30,875 |
 | 30.875
 | 355 | 6.030 | 36,905 | 6.385
 |
| Juncau
Jima | 11 651 | 2005 | | 12.171 | 9

 | | 1.032 | | 1,038 | | 3.941 | 26,741 |
 | 30,682
 | 308 | . 6,304 | 36,986 | 6.612
 |
| | 9.415 | | | 9,415 |

 | | 1,032 | · . | 1.032 | | | - 17,173 |
 | 17,173
 | 197 | 4,660 | 21.833 | 4,857
 |
| Opol | 18,978 | 2,080 | | 21,058 | 24

 | 1.096 | 1,032 | | 2,153 | 39,464 | | 40,079 |
 | 40.079
 | 461 | 8,497 | 48.576 | 8.958
 |
| Salay | 17,743 | | | 17,743 |

 |
; | 1,032 | | 1,032 | | | . • |
 | 13.767
 | 158 | 4.112 | 6/8/1 | 0/7/4
 |
| Sugbongcogon | 8,712 | 1,092 | • | 9,804 | 13

 | | 1,032 | ÷ | 1,045 | | | |
 | 9,084
 | 20 | 040,1 | 10,128 | CK0'1
 |
| lagoloan | 144,222 | 29.718 | | 173,940 | 342

 | 8,771 | 1.032 | | 10,145 | 282,970 | | - 1 - OC |
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 | 320 | IFUE Y | 34 021 | 2297
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| alisayan | 066'6 | 702 | | 26 401 | 8 3

 | 0101 | 1 032 | 1 | 3.016 | 65.627 | - 1 | 1 |
 | 45.908
 | | 7,401 | 53,308 | 7,665
 |
| ianucva | 1072 013 | 017 77 | | 588 177 | 708

 | 21 106 | 75,808 | · H – | 47,808 | 788.072 | | |
 | 774,823
 | ę | 157,059 | 931,882 | 163,440
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10.4.1 Breakdown of Community Development and Training Cost

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

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

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

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

 Table 10.4.1
 Breakdown of Community Development and Training Cost

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.

Sub-Sector	Component	1996	1997	1998	1999	2000	Total
esente de la	Level III System						
Urban Water	Feasibility Study and Detail Design	50	50	0	0	0	100
Supply	Construction & Supervision	; 0 -⊾.	20 . _d :	. 30	30	- 20	100
	Institutional Development	30	20	20	20	10	100
	Level I Facility	t kant	1 . N				
	Detail Design	50	50 -	0	0	0	100
	Construction & Supervision	0	20	30	30	20	100
Rural Water	Institutional Development	30	30	20	10	10	100
Supply	Level II System	Sec. 11			· ·		
	Detail Design	100	0	0	0	0	100
	Construction & Supervision	· 50 ·	50	.0.	E 0 - E	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
	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	Ó	0	0	0	100
	Construction & Supervision	0	20	30	30	20	100
	Institutional Development	- 30	30	20	- 10 -	10	100

Table 11.3.1 Percentages for Annual Investment

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 Watersupply and Sanitation Project.

O and M for Rural Water Supply

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

O and M for Sanitation

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

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	Synthetic	nvesunen Need Ranking		ŝ	20	21	6	=	24	27	4	5	6	15	8	80	12		17	13	ឧ	2	16	2	+ 4	0	0					
		Total Weighted Score	0.56	0.74	0.36	0.35	0.53	0.52	0.27	0.35	0.45	0.39	0.53	0.45	0.40	0.56	0.50	0.85	0.41	0.45	0.31	0.75	0.43	0.22	77.0	40.0	2. VC.U					
	ub-Sector	Rural Samitation	0.25	0.15	0.05	0.05	0.20	0.20	0.05	0.10	0.20	0.10	0.20	0.10	0.05	0.10	0.20	0.20	0.05	0:15	0:05	0.05	0.15	0.05	c7.0	0.12	C1-0					
	Weighted Score by Sub-Sector	Urban Sanitation	0.15	0.25	0.15	0.10	0.15	0.20	0.05	0.15	0.10	0.15	0.20	0.15	0.25	0.15	0.20	0.25	0.15	0.20	0.05	0.25	0.15	0.05	0.13	(7-) (7-)	cr.n			lity.		
	Weighte	Rural Water Supply	0.05	0.15	0.05	0.05	0.05	0.05	0.05	0.05	0.0	0.05	0.05	0.05	0.05	0.20	0.05	0.20	0.10	0.05	0.10	0.20	0.05	0.05	0.20	0.10	0.15			oy Municipa	· ` : Fe	جو ج
tics		Urban Water Supply	0.11	0.19	0.11	0.15	0.13	0.07	0.12	0.05	0.05	0.09	0.08	0.15	0.05	0.11	0.05	0.20	0.11	0.05	-0.11	0.25	0.08	0.07	0.0/	0.14	0.12	. •	· ·	Evaluation		Allocated Weight
Municipali		Rura] Sanitation	1.00	0.60	0.20	0.20	0.80	0.80	0.20	0,40	0.80	0.40	0.80	0.40	. 0.20	0.40	0.80	0.80	0.20	0.60	0.20	0.20	0.60	0.20	1.00	0.60	0.60			2) Assumed Weight by Sub-Sector for Synthetic Evaluation by Municipality.		0.25
nking of the	Score by Sub-Sector	Urban Sanitation	0.60	1.00	0.60	0.40	0.60	0.80	0.20	0.60	0,40	0.60	0.80	0.60	1.00	0.60	0.80	1.00	0.60	0.80	0.20	1.00	0.60	0.20	0.60	1.00	0.60			Sub-Sector		0.25
ent Need Ra	Score by	Rural Water Supply	0.20	09.0	0.20	0.20	0.20	0.20	0.20	0.20	0.40	0.20	0.20	0.20	0.20	0.80	0.20	0.80	0.40	0.20	0.40	0.80	0.20	0.20	00	0.40	09.0			d Weight by		0.25
ve Investme	 	Urban Water Supply	0.43	0.76	0.43	0.59	0.53	0.27	0.46	0.20	0.20	0.36	0.30	0.60	0.20	0.43	0.20	0.79	0.43	0.20	0.43	1.00	0.32	0.29	0.27	0.56	0.47			2) Assume		0.25
6.1 Comprehensive Investment Need Ranking of the Municipalities	Households)	Rural Sanitation	62	45	29	27	60	58	20	37	51	40	56	40	21	35	99	55	21	47	26	17	41	23	100	48	42	40				served Percentage
Table 11.4.1		Urban Sanitation	27	46	25	20	26	34	0	24	17	26	31	29	10	21	31	42	23	37	9	61	24	5.	22	46.	23	23				Range of Underserved and Unserve
	Evaluation Factor (% of Underserved and Unserved Population or	Rural Water Supply	24	45	14	11	6	23	17	24	31	15	17	28		09	15	55	35	23	39	53	29	1	100	37	4	28		srcentage.	b	Range of Unde
	(% of Un	Urban Water Supply Rural Water Supply	NA	NA	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA	AN I	NA.	N.A.	AN	N.A.	NA	NA	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.		(1) Scoring to I Inderserved and I Inserved Percentage.		Score
S	Jone La Contra L	Nunicipality	Alutiid	Balingasag	Balingoan	Binuangan	Claveria	E) Salvador	Gingoog City	Gitagum	Initao	Jasaan	Kinoguitan	Laconelone	il aguindingan	Libertad	Lucait	Maesavsav	Manticao	Medina	Naawan	Opel	Salay	Sugbongcogon	Tagoloan	Talisayan	Villanueva	Provincial Total	Note:	(1) Scoring to Unders		Š

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Number of Toilate	School Tri.	Term. Tuilet Related	15 15	3 3		2 2	26 <u>2</u> 6	5 C	5 5	0	, c	,0	5 5	6 6			, 11 11	s .	0	00	9 9	01 110 1 110	anitation Sanitation	1.rhan	2,714 933		0 1121		0 558			0 1.395		.320 644			115 2111	0 706		2.948 593	0 579		0 3.173	
0 10 1 10 10 10 10 10 10 10 10 10 10 10	Allotment of IRA Public B	Prov. Muni. Mkt. Te			7 97 243	174	- 0	201 201	3 272 437	70	9 351 4361		7 271 1.091			7 272 1.301	122 12	6 268 824	0	0 0	8/	4 905 18.4	Manual Manual Manual	Municipality Rural Sup	Alubijid 2	Baingasag	Balingoan	Binuzngan	E) Salvador	Gingoog City			Kinopulan		u			Maniferio					Sugbongcogon	
	Sub-total L Avail. R	A 1RA BLY.	49 2.714 1	>0	0	0 0	0 0		1:				0/07 17	318 11,144 2		-	93 2.948	. 7526	0	- 0	2,836 4,713	112 112 112	. (Sub-total			354 821	-	916 1,128	346 558		1		188 1995		510 1.510		1.618 1.994	401 70K					1.510 1.510	
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Rural Water Supply	Vos. of LEVEL I Facilities Shallow Spring	Devl	1 2	6 0 0	0	8 4	0	0 0	7 1	0	16 3	0	0	202	12 2	4	20	_	- 0	0 0	12 5	0	Number of Tiolets	Bus School	6	9 1	1 2	0		1 15	1 0	0		2	0	1		• •		- 0 - 1	4	m	0	1 25
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	Name of City or	Municipality	Alubitid	Batingasae	Binuangan	Clavena	El Salvador	Gitagum	initao	Jasaan	Lagonalong	Lagundingan	Liberlad	Lugait	Magsaysay	Medina	Naawan Naawan	Opol	Salay	Dugbongcogon	Talisayan	Villanueva	Table II	Name of City or		Alabijid Polioseros	Balincoan	Binuangan	Clavenia	El Salvador	Gitarum	Initao	lasaan	Kinoguilan	t agonglong	l ibertad	Lugar	Magsaysay	Manticao	Medina	Dualwan	Salay	Sugbongcogon	

	and the second se		Ì										
Year	Nos. of If Deep Well	Shallow	Spring Dev't	Construction Cost	Rehab. And Replacement Cost	O&M Cost	Cash Outflow	No. of Households	Wat per Month ₁	Water Rate per Month per Household	Loans and Subsidies	Cash Inflow	Net Value
	38	8 12	9	17,923,400		0	17,923,400	840		150	0	0	(17.923.400)
, ,	57	7	80			179,234	26,333,134	2,070		150		3,726,000	(22.607.134)
4	57	7 17	00			440,773	26,594,673	3,300		150 0		5,940,000	(20.654.673)
· •	38		6			702,312	18,625,712	4,140		150		7,452,000	(11.173.712)
9						881,546	881,546	4,140		150		7,452,000	6,570,454
-						881.546	881,546	4,140		150		7,452,000	6,570,454
00						881,546	881,546	4,140		150		7,452,000	6,570,454
6						881,546	881,546	4,140		150		7,452,000	6,570,454
10		-				881,546	881,546	4,140		150	 	7,452,000	6,570,454
						881,546	881,546	4,140		150		7,452,000	6,570,454
12	•			-	3,436,400	881,546	4,317,946	4,140		150		7,452,000	3,134,054
13					5,093,700	881,546	5,975,246	4,140		150		7,452,000	1,476,754
14					5,093,700	881,546	5,975,246	4,140		150		7,452,000	1,476,754
15	· .				3,436,400	881,546	4,317,946	4,140		150		7,452,000	3,134,054
16					· · · · · · · · · · · · · · · · · · ·	881,546	881,546	4,140		150		7,452,000	6,570,454
17						881,546	881,546	4,140		150	•	7,452,000	6,570,454
18						881,546	881,546	4,140		150		7,452,000	6,570,454
19			· . ·			881,546	881,546	4,140		150	· · · · · · · · · · · · · · · · · · ·	7,452,000	6,570,454
20						881.546	881.546	4,140		150		7,452,000	6.570,454

	Table 11.6.1 Investment Progra	t Program of GO	m of GOP-Assisted Level I Water Supply and Sanitation Project	I Water Supply	and Sanitation	Project	(Unit: Pesos)
	Category	Total Amount	1st year	2nd year	3rd year	4th year	5th year
	A. Const. & Civil Works	009 (2)1 88	C	17.632.520	26.448.780	26,448,780	17,632,520
	1. water Supply 2. Sanitation	67,508,200	> 0	13,501,640	20,252,460	20,252,460	13,501,640
	3. Land Acquisition	1,520,000	0	304,000	456,000	456,000	304,000
							1
•	B. Equip./Logistic Support	1,097,700	0	1,097,700	0	0	0
	C. Consultancy Services					· .	
	1. Hydrogeological Survey	1,148,000	1,148,000	0	0	0	0
	2. D/D and Const. Sv.	17,290,988	6,916,395	3,458,198	3,458,198	1,729,099	1,729,099
	D. Institutional Devt.						
•	1. Capacity Enhanc. Prog.	3,200,000	960,000	960,000	640,000	320,000	320.000
11	2. Commu. Manag. Prog.	2,487,870	746,361	746,361	497,574	248,787	248,787
- 7	3. Health & Hygiene Educ.	415,800	124,740	124,740	83,160	41,580	41,580
7	4 Water Ouality Surveil.	88,900	26,670	26,670	17,780	8,890	8,890
	5 NGO Assistance	277,200	83,160	83,160	55,440	27,720	27,720
	6. Administrative Support	1,200,000	360,000	360,000	240,000	120,000	120,000
	E. Physical Contingency	18,439,726	1,036,533	3,829,499	5,214,939	4,965,332	3,393,424
	(10% of sub-total A+B+C+D)						·····
		707 036 081	11 401 850	42 124 487	57 364 331	54.618.647	37.327.659
•	TOUL TOTAL ATDTUTUTET)	10,000,202	11,704,000				
	Ir. Others 1 Drive Contingency	78 266 796	4 399.528	16.254.179	22,134,634	21,075,183	14,403,272
	2. Value Added Tax (VAT)	8,452,886	475,153	1,755,466	2,390,561	2,276,139	1,555,567
•	Grand Total	289,556,665	16,276,540	60,134,133	81,889,525	77,969,969	53,286,498
	Note: Item A includes equity of users.	ý.					

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

	Deep Well	Shallow Well	Spring Dev't
Nos. of Facilities to be Constructed	190	58	28
Nos. of HHs to be Served	2,850	870	420
Reconstruction Cost (Peso)	1		
Unit Cost	346,600	60,900	670,300
Til. Reconst. Cost	65,854,000	3,532,200	
Ttl. Reconst. Cost/year	3,292,700	353,220	
Cost per HH/year	1,155	406	
Rehabilitation Cost (Peso)			
Unit Cost	71,200	and the second	
Ttl. Rehab. Cost	13,528,000	and the according	and the second second
Ttl. Rehab. Cost/year	1,352,800		
Cost per HH/year	475		
Recurrent Cost for O&M (Peso)		1	
Cost per HH/year	100	50	50
O&M Cost Total (Peso) Cost per HH/year	1,730	456	50

Table 11.6.2 O&M Cost for Level I Facilities

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 wen	Shallow Well	Spring Dev't
O&M Cost per HH/month	144	38	4
Proportion (Mean)	1.7%	0.5%	0.0%
Proportion (Median)	2.2%	0.6%	0.1%

Table 11.6.4 Family Income

(Unit: Pesos) Monthly²⁾ Annual¹⁾ Low Mean Median Low Mean Median 6,689 53,908 8,259 6,526 42,594 43,659

Note: 1) 1994 NSO Family Income and Expenditure Survey

2) Estimated value in 2003 applying 7% inflation rate/year

O&M Cost for GOP Assisted Sanitation Project

Tabl	e 11.6.5 O&M Cos	st for Rural Sanit	tation	(Unit: Pesos)
Nos. of Facilities Public Toilets	to be Constructed School Toilets	Unit Const Public Toilets	ruction Cost School Toilets	Yearly O&M Cost
0	84	344,100	274,100	1,151,220

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.

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Public Toilets School Toilets Public Toilets School Toilets	Tabl	e 11.6.6 O&M Cos	t for Urban Sanit	ation	(Unit: Pesos)
				· · · · · · · · · · · · · · · · · · ·	Yearly O&M Cost
	Public Toilets	School Toilets			
46 63 344,100 274,100 1,654,845	46	63	344,100	274,100	1,654,845

-				د م د و				Form P- 1
		Pro	Provincial Water & Sanitation Monitoring System Annual Sector Performance Summary Report	Sanitation Mon formance Sum	uitoring System mary Report			
			Period Covered :			· · ·	11 ¹	
I. Service Coverage								
		LAST	LAST YEAR			THIS	THIS YEAR	
		Persons	Persons	Persons		Persons	Persons	Persons
Municipality	Domilation	with Safe	with cafe	with Sanitary	Population	with Safe Water &	with Safe	with Sanitary
Ξ	1 opulation (2)	Walel & Sanifarv	Water	Toilets	(9)	Sanitary	Water	Toilets
· ·		Toilets	Only	Only		Toilets	Only	Ouly
		(3)	(4)	(2)		6	(8)	5
						-		
			-					
	-							
			1					
					-			
•								
4								
Total								
% Served								
						-		

12.4 Evaluation of Plan Implementation and Updating the PW4SP

MONITORING FOR MEDIUM-TERM DEVELOPMENT PLAN

12.

II. Sources & Uses of Capital Development Funds

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

12 - 2

	Facility: Student Ratio (5)							
	No. of Functioning Toilet Units (4)							
	Water Supply Adequate ? (Y/N) (3)							
	No. of Students Enrolled (2)							
III. School Sanitation (Source, DECS)	School (Location) (1)							
						1	2	- 3

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		

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
- Pipeline = ____ / meter
 Storage Tanks = _____
- 5. Others,

						Uses (Uses of Funds	-	-	
	Source of Funds	Budget (2)	nt	Water Source	Water Supply	Water Storage/ Treatment &	Household Toilets	School Toilets	Public Toilets	Others
	÷		(c)	Levelopment (4)	l ransmission (5)	Distribution (6)	£	(8)	(6)	
	Municipal Funds									
	Barangay Funds									
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	SUB-TOTAL									
	NGO									
	NGO									
	NGO									
	SUB-TOTAL									

II. Sources & Uses of Capital Development Funds.

