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 components facilities was fully utilized, which was referred to the standard of relevant sector agencies. Escalation rates experienced between 1995 and 1998 in terms of major construction materials and equipment rental were studied using NSO statistics (whole price index). Market prices of these items were also canvassed to compare with the calculated prices in 1998 from those in 1995 in application of the escalations rates.

In general, escalated prices meet canvassed prices in the most of the materials. Escalation rates between 1995 and 1998 were employed in round figures. Some of them (water closet, etc.) were, however, replace 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

	*cW	or Sun	ylu	3	Sanitation	5		Projection by major materials	v major m	aterials		Canvassed &		
•	VV 24.L	water Suppiy	, Y	3	mitaur	3	•		~ ~ C C-			collected price	اه	Comparison
Major Materials	;	;	,	ST,	Flush	VIP,	NSO who	NSO wholesale price index	index	Price	e	DPWH _{co} CIA _{co}		(1), (2) & (3)
	<u> </u>	L-1 L-11 L-111	Γ-III	PT	PT type	Pit.	1995	1998 E	Escalation	1995	1998(1)	ļ	,,	
1 Apprenate	×	×	×	×	×	×	311.6	367.5	5.7%				× '	Almost same with (2)
Sand	:		•							304	359	330	350 (3).	٤ (٤).
Gravel										385	454	418	200	
2. Cement	×	×	×	×	×	×	197.4	214.1	2.7%	117	127	126	105 ditto	litto
3. Fuel	×		×				601.6	742.6	7.3%	1,100	1,358	1306		ditto
4 Metal pine	×	×	×				208.7	226.3	2.7%				<u>a.</u>	Price of GI casing is
4" x 3m. GI	:	:								2,625	2,846	2763	3 5	aimost same with (2)
4" x 3m. Screen										4,313	4,667	5291		lower than (2).
5. PVC pipe	×	×	×	×			199.2	223.4	3.9%				14	Price of PVC pipe is
2"×3m										813	912	882	852	852 and 7% higher than
1-1/2" elbow								i		13	15		40(3).
6. Reinforcing	×	×	×	×	×	×	201.4	221.9	3.3%					Almost same with (3).
12mm x 6m										89	75		75	
10mm x 6m										46	54		45	
7. Lumber				×	×	×	268.5	296.8	3.4%					
8. Paint				×			128.0	140.1	3.1%					Almost same with (3).
Enamel, QDE										266	291		310	
9. Machinery	×		×				254.8	254.8	0.0%					

L-I: Deep well/shallow well, L-II: Major materials are same as those of L-I spring development,

C

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, prevailing prices for the month of December 1998

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

				(Cost: Peso)
Description	Qty.	Unit	Unit Cost	Amount
A. Mobilization/Demobilization/Site Preparation		LS	:	52,000
B. Drilling of Well & Installation of Steel Casing/Screen				
1. Materials				
(1) 100mm x 3m Steel Casing with coupling	11	pcs.	2,846	31,306
(2) 100mm x 3m Steel Casing with one end closed	1	pc.	2,997	2,997
(3) 100mm x 3m Low Carbon Steel Screen	2	pcs.	4,667	9,334
(4) Casing Centralizer	2	set	1,925	3,850
2. Labor, Fuel, Lubricant and others				
Well Drilling for 40 m depth at 200mm borehole	40	m	2,500	100,000
3. Borehole Logging	1	no	16,000	16,000
4. Freight Cost (8% of Materials)		LS		3,799
Sub-Total of B				167,286
C. Well Development and Pumping Test				
Well Development	24	hr.	5,500	132,000
Pumping Test	6	hr.	5,000	30,000
Sub-Total of C				162,000
D. Gravel Packing, Installation of Handpump and Constru	ction of P	latform		
1. Materials				
(1) Improved Deep Well Cylinder Pump (Afridev Type)	1	set	11,815	11,815
(2) 63mm x 6m Riser Pipe and Pump Rod	6	pcs.	1,880	11,280
(3) #10 Sieved Gravel	1	cu.m	1,026	1,026
(4) Coarse Sand	1	cu.m	359	359
(5) Cement for Sanitary Seal	4	bags	127	508
(6) Pump Base and Platform	·	080		
1) Cement	4	bags	127	508
2) Gravel	2	cu.m	454	908
3) Sand	1	çu.m	359	359
4) Plywood (1,200mm x 2,400mm x 6mm)	i	pc.	294	294
5) Form Lumber (50mm x 75mm x 1,800mm)	6	pcs.	52	312
6) Nail	1	kg.	40	40
Sub-Total of D-1		g.	-13	27,409
2. Labor (40% of D-1.)				10,964
3. Freight Cost (8% of Materials)		LS		2,193
Sub-Total of D		<u></u>		40,566
E. Indirect Cost				70,300
				42 185
Profit (10% of A, B, C & D)		,		42,185 54,841
Overhead Expense (13% of A, B, C & D) VAT (10% of Labor, Profit & Overhead Expense)				20,799
Sub-Total of E				62,984
Total of Construction Cost (A+B+C+D+E)				352,836
F. Estimated Government Expenses		10		2 400
1. Preliminary & Detailed Engineering Cost		LS		3,600
2. Construction Supervision		LS		2,400
3. Water Quality Analysis		LS		1,400
Sub-Total of F				7,400
GRAND TOTAL				360,236
SAY	L			360,200

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

** *			 	(Cost: Peso)
Description (Description)	Qty.	Unit	Unit Cost	Amount
A. Mobilization/Demobilization		LS		52,000
B. Drilling of Well & Installation of Steel Casing/Screen				
1. Materials				
(1) 100mm x 3m Steel Casing with coupling	11	pçs.	2,846	31,306
(2) 100mm x 3m Steel Casing with one end closed	1	pc.	2,997	2,997
(3) 100nm x 3m Low Carbon Steel Screen	2	pcs.	4,667	9,334
(4) Casing Centralizer	0	set	1,925	C
2. Labor, Fuel, Lubricant and others				
Well Drilling for 40 m depth at 150mm borehole	40	m	1,600	64,000
3. Borehole Logging	1	no	16,000	16,000
4. Freight Cost (8% of Materials)		LS		3,491
Sub-Total of B				127,128
C. Well Development and Pumping Test			·	
Well Development	12	hr.	5,500	66,000
Pumping Test	6	hr.	5,000	30,000
Sub-Total of C				96,000
D. Gravel Packing, Installation of Handpump and Construc	tion of P	latform		
1. Materials				
(1) Improved Deep Well Cylinder Pump (Afridev Type)	1	set	11,815	. 11,815
(2) 63mm x 6m Riser Pipe and Pump Rod	6	pcs.	1,880	11,280
(3) #10 Sieved Gravel	0	cu.m	1,026	0
(4) Coarse Sand	1	cu.m	359	. 359
(5) Cement for Sanitary Seal	3	bags	127	381
(6) Pump Base and Platform				
1) Cement	4	bags	127	508
2) Gravel	2	cu.m	454	908
3) Sand	1	cu.m	359	359
4) Plywood (1,200mm x 2,400mm x 6mm)	1	pc.	294	294
5) Form Lumber (50mm x 75mm x 1,800mm)	6	pcs.	52	312
6) Nail	1	kg.	40	40
Sub-Total of D-1		Ŭ		26,256
2. Labor (40% of D-1.)				10,502
3. Freight Cost (8% of Materials)		LS	* *	2,100
Sub-Total of D				38,858
E. Indirect Cost				
Profit (10% of A, B, C & D)				31,399
Overhead Expense (13% of A, B, C & D)				40,818
VAT (10% of Labor, Profit & Overhead Expense)				14,672
Sub-Total of E				46,071
Total of Construction Cost (A+B+C+D+E)				294,057
F. Estimated Government Expenses				
1. Preliminary & Detailed Engineering Cost		LS		3,600
2. Construction Supervision		LS		2,400
3. Water Quality Analysis		LS		1,400
Sub-Total of F				7,400
GRAND TOTAL				301,457
SAY	-			301,500
Note: LS - Lump Sum		·		301,300

Table 10.2.2(c) Unit Cost of Level I (Gravel Packed Deep Well - 40m Depth) for Acid Water

(Cost: Peso) Description Unit Qty. Unit Cost Amount A. Mobilization/Demobilization/Site Preparation LS 52,000 B. Drilling of Well & Installation of Steel Casing/Screen 1. Materials (1) 100mm x 3m PVC Casing with Socket 11 2,038 pcs. 22,418 (2) 100mm x 3m PVC Casing with Plug pc. 980 980 (3) 100mm x 3m Stainless Steel Screen 2 25,400 pes. 12,700 (4) Casing Centralizer 2 1,925 set 3,850 2. Labor, Fuel, Lubricant and others Well Drilling for 40 m depth at 200mm borehole 40 m 2,500 100,000 3. Borehole Logging 16,000 16,000 no 4. Freight Cost (8% of Materials) LS 4,212 Sub-Total of B 172,860 C. Well Development and Pumping Test Well Development 24 hr. 5.500 132,000 **Pumping Test** hr. 5,000 30.00d Sub-Total of C 162,000 D. Gravel Packing, Installation of Handpump and 1. Materials (1) Improved Deep Well Cylinder Pump (Afridev Type) 11.815 set 11.815 (2) 63mm x 3m PVC Riser Pipe and SUS Pump Rod 12 2,450 29,400 pcs. (3) #10 Sieved Gravel cu.m 1,026 1,026 (4) Coarse Sand cu.m 359 359 (5) Cement for Sanitary Seal 127 bags 508 (6) Pump Base and Platform 1) Cement bags 127 508 2) Gravel cu.m 454 908 3) Sand 359 cu.m 359 4) Plywood (1,200mm x 2,400mm x 6mm) 294 pc. 294 5) Form Lumber (50mm x 75mm x 1,800mm) pcs. 52 312 6) Nail kg. 40 40 Sub-Total of D-1 45.529 2. Labor (40% of D-1.) 18,212 3. Freight Cost (8% of Materials) LS 3,642 Sub-Total of D 67,383 E. Indirect Cost Profit (10% of A, B, C & D) 45,424 Overhead Expense (13% of A, B, C & D) 59,052 VAT (10% of Labor, Profit & Overhead Expense) 22,269 Sub-Total of E 67,693 Total of Construction Cost (A+B+C+D+E) 389,936 F. Estimated Government Expenses 1. Preliminary & Detailed Engineering Cost LS 3,600 2. Construction Supervision LS 2,400 3. Water Quality Analysis LS 1,400 Sub-Total of F 7,400 **GRAND TOTAL** 397,336 SAY 397,300

Note: LS - Lump Sum

Source: DPWH standard price in 1994 & LWUA Water Supply Feasibility Study Methodology Manual 1998

Unit Cost: Adjusted to 1998 Price Level

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

Description	Qty.	Unit	Unit Cost	Amount
A. Mobilization/Demobilization/Site Preparation	70.	LS	Cint Cost	54,000
B. Drilling of Well & Installation of Steel Casing/Screen		14)		34,000
1. Materials	24	200	2,846	69.204
(1) 100mm x 3m Steel Casing with coupling	24	pes.		
(2) 100mm x 3m Steel Casing with one end closed	1	pc.	2,997	2,997
(3) 100num x 3m Low Carbon Steel Screen	2	pcs.	4,667	9,334
(4) Casing Centralizer	2	set	1,925	3,850
2. Labor, Fuel, Lubricant and others			2.500	222
Well Drilling for 40 m depth at 200mm borehole	80	m	2,500	
3. Borehole Logging	1	no	18,000	
4. Freight Cost (8% of Materials)		LS		6,759
Sub-Total of B				309,244
C. Well Development and Pumping Test				*
Well Development	24	hr.	5,500	
Pumping Test	6	hr.	5,000	30,000
Sub-Total of C				162,000
D. Gravel Packing, Installation of Handpump and Construc	ction of P	latform		
1. Materials				
(1) Improved Deep Well Cylinder Pump (Afridev Type)	1	set	11,815	11,815
(2) 63mm x 6m Riser Pipe and Pump Rod	8	pcs.	1,880	15,040
(3) #10 Sieved Gravel	1	çu.m	1,026	1,026
(4) Coarse Sand	1	cu.m	359	359
(5) Cement for Sanitary Seal	4	bags	127	508
(6) Pump Base and Platform				
1) Cement	4	bags	127	508
2) Gravel	2	cu.m	454	
3) Sand	1	cu.m	359	
4) Plywood (1,200mm x 2,400mm x 6mm)	1	pc.	294	
5) Form Lumber (50mm x 75mm x 1,800mm)	6	pcs.	52	312
6) Nail	1	kg.	40	
Sub-Total of D-1		"\$"	"	31,169
2. Labor (40% of D-1.)	-			12,468
3. Freight Cost (8% of Materials)		LS		2,494
Sub-Total of D	} -	129		46,131
E. Indirect Cost	-			70,101
Profit (10% of A, B, C & D)	1			57,138
Overhead Expense (13% of A, B, C & D)	1			74,279
VAT (10% of Labor, Profit & Overhead Expense)		Ì	İ	34,389
Sub-Total of E	 	}	{	91,527
Total of Construction Cost (A+B+C+D+E)	 	 		530,902
F. Estimated Government Expenses	 	 	 	330,704
		LS	1	3,600
1. Preliminary & Detailed Engineering Cost		LS		1 '
2. Construction Supervision				2,400
3. Water Quality Analysis	}	LS		1,400
Sub-Total of F	 		 	7,400
GRAND TOTAL				538,302
SAY Note: I.S - Lump Sum	<u> </u>	<u> </u>	<u></u>	538,300

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

				(Cost. Peso)
Description	Qty.	Unit	Unit Cost	Cost
A. Mobilization/Demobilization/Site Preparation		LS		54,000
B. Drilling of Well & Installation of Steel Casing/Screen	i .			
1. Materials				
(1) 100mm x 3m Steel Casing with coupling	24	pcs.	2,846	68,304
(2) 100mm x 3m Steel Casing with one end closed	1	pc.	2,997	2,997
(3) 100mm x 3m Low Carbon Steel Screen	2	pes.	4,667	9,334
(4) Casing Centralizer	0	set	1,925	C
2. Labor, Fuel, Lubricant and others				
Well Drilling for 80 m depth at 150mm borehole	80	m	1,600	128,000
3. Borehole Logging	1	no	18,000	18,000
4. Freight Cost (8% of Materials)		LS		6,451
Sub-Total of B				233,086
C. Well Development and Pumping Test		,		
Well Development	12	hr.	5,500	66,000
Pumping Test	6	hr.	5,000	30,000
Sub-Total of C			***************************************	96,000
D. Gravel Packing, Installation of Handpump and Constru-	ction of P	latform		
1. Materials				
(1) Improved Deep Well Cylinder Pump (Afridev Type)	1	set	11,815	11,815
(2) 63mm x 6m Riser Pipe and Pump Rod	8	pcs.	1,880	15,040
(3) #10 Sieved Gravel	0	cu.m	1,026	0
(4) Coarse Sand	i i	cu.m	359	359
(5) Cement for Sanitary Seal	3	bags	127	- 381
(6) Pump Base and Platform				
1) Cement	4	bags	127	508
2) Gravel	2	cu.m	454	908
3) Sand	1	cu.m	359	359
4) Plywood (1,200mm x 2,400mm x 6mm)	1	pċ.	294	294
5) Form Lumber (50mm x 75mm x 1,800mm)	6	pcs.	52	312
6) Nail	1	kg.	40	40
Sub-Total of D-1		Ŭ		30,016
2. Labor (40% of D-1.)				12,006
3. Freight Cost (8% of Materials)		LS		2,401
Sub-Total of D			••	44,423
E. Indirect Cost				
Profit (10% of A, B, C & D)				42,751
Overhead Expense (13% of A, B, C & D)	7			55,576
VAT (10% of Labor, Profit & Overhead Expense)				23,833
Sub-Total of E			~~~~	66,584
Total of Construction Cost (A+B+C+D+E)				428,093
F. Estimated Government Expenses		1 2		-20,073
1. Preliminary & Detailed Engineering Cost		LS		3,600
2. Construction Supervision		LS		2,400
3. Water Quality Analysis		LS		1,400
Sub-Total of F				7,400
GRAND TOTAL		·	4 }	435,493
SAY				435,500
Note: LS - Lump Sum				733,300

Table 10.2.3 (c) Unit Cost of Level I (Gravel Packed Deep Well - 80m Depth) for Acid Water

				(Cost: Peso
Description	Qty.	Unit	Unit Cost	Cost
A. Mobilization/Demobilization/Site Preparation		LS		54,000
B. Drilling of Well & Installation of Steel Casing/Screen				
1. Materials	_ ;			
(1) 100mm x 3m PVC Casing with Socket	24	pcs.	2,038	· ·
(2) 100mm x 3m PVC Casing with Plug	1	pc.	980	
(3) 100mm x 3m Stainless Steel Screen	2	pcs.	12,700	25,400
(4) Casing Centralizer	2	set	1,925	3,850
2. Labor, Fuel, Lubricant and others				
Well Drilling for 40 m depth at 200mm borehole	80	m	2,500	
3. Borehole Logging	1	no	18,000	
4. Freight Cost (8% of Materials)		LS		6,331
Sub-Total of B				303,473
C. Well Development and Pumping Test			,	
Well Development	24	hr.	5,500	
Pumping Test	6	hr.	5,000	
Sub-Total of C				162,000
D. Gravel Packing, Installation of Handpump and Construc	ction of P	latform		
1. Materials				
(1) Improved Deep Well Cylinder Pump (Afridev Type)	1	set	11,815	11,815
(2) 63mm x 3m PVC Riser Pipe and SUS Pump Rod	16	pcs.	2,450	39,200
(3) #10 Sieved Gravel	1	cu.m	1,026	1,026
(4) Coarse Sand	1	cu.m	359	359
(5) Cement for Sanitary Seal	4	bags	127	508
(6) Pump Base and Platform	,			
1) Cement	4	bags	127	508
2) Gravel	2	cu.m	454	908
3) Sand	1	cu.m	359	359
4) Plywood (1,200mm x 2,400mm x 6mm)	i	pc.	294	294
5) Form Lumber (50mm x 75mm x 1,800mm)	6	pcs.	52	312
6) Nail	1	kg.	40	40
Sub-Total of D-1				55,329
2. Labor (40% of D-1.)				22,132
3. Freight Cost (8% of Materials)		LS	1.	4,426
Sub-Total of D				81,887
E. Indirect Cost				
Profit (10% of A, B, C & D)				60,136
Overhead Expense (13% of A, B, C & D)				78,177
VAT (10% of Labor, Profit & Overhead Expense)				36,045
Sub-Total of E		<u></u> .		96,181
Total of Construction Cost (A+B+C+D+E)				565,541
F. Estimated Government Expenses				
1. Preliminary & Detailed Engineering Cost		LS		3,600
2. Construction Supervision	ĺ	LS		2,400
3. Water Quality Analysis		LS	and the state	1,400
Sub-Total of F			,	7,400
GRAND TOTAL				572,941
SAY				572,900

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

				(Cost Peso)
Description	Qty.	Unit	Unit Cost	Amount
A. Mobilization/Demobilization/Site Preparation		LS		56,000
B. Drilling of Well & Installation of Steel Casing/Screen				
1. Materials				
(1) 100mm x 3m Steel Casing with coupling	37	pcs.	2,846	105,302
(2) 100mm x 3m Steel Casing with one end closed	1	pc.	2,997	2,9 97
(3) 100mm x 3m Low Carbon Steel Screen	2	pcs.	4,667	9,334
(4) Casing Centralizer	2	set	1,925	3,850
2. Labor, Fuel, Lubricant and others				
Well Drilling for 120 m depth at 200mm borehole	· 120	m	2,500	300,000
3. Borehole Logging	1	no	20,000	20,000
4. Freight Cost (8% of Materials)		LS		9,719
Sub-Total of B				451,202
C. Well Development and Pumping Test				
Well Development	24	hr.	5,500	132,000
Pumping Test	6	hr.	5,000	30,000
Sub-Total of C				162,000
D. Gravel Packing, Installation of Handpump and Constru	ction of F	latform		
1. Materials				
(1) Improved Deep Well Cylinder Pump (Afridev Type)	1	set	11,815	11,815
(2) 63mm x 6m Riser Pipe and Pump Rod	10	pċs.	1,880	18,800
(3) #10 Sieved Gravel	1	cu.m	1,026	1,026
(4) Coarse Sand	1	cu.m	359	359
(5) Cement for Sanitary Seal	4	bags	127	508
(6) Pump Base and Platform				,
1) Cement	4	bags	127	508
2) Gravel	2	cu.m	454	908
3) Sand	1	cu.m	359	359
4) Plywood (1,200mm x 2,400mm x 6mm)	1	рс	294	294
5) Form Lumber (50mm x 75mm x 1,800mm)	6		52	312
6) Nail	ī	kg.	40	40
Sub-Total of D-1		6-		34,929
2. Labor (40% of D-1.)		1		13,972
3. Freight Cost (8% of Materials)		LS	[2,794
Sub-Total of D		·		51,695
E. Indirect Cost		ļ		
				72,090
Profit (10% of A, B, C & D) Overhead Expense (13% of A, B, C & D)		1		93,717
VAT (10% of Labor, Profit & Overhead Expense)		1		47,978
Sub-Total of E		 		120,068
Total of Construction Cost (A+B+C+D+E)		 		708,965
F. Estimated Government Expenses				
1. Preliminary & Detailed Engineering Cost		LS		3,600
I)	Ì	LS		2,400
2. Construction Supervision		LS		1,400
3. Water Quality Analysis Sub-Total of F		ļ <u>tis</u>		7,400
		 	 	716,365
GRAND TOTAL		1		716,400
Note: LS - Lump Sum	<u> </u>	<u> </u>		/10,400

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

Description	Qty.	Unit	Unit Cost	(Cost: Peso) Cost
A. Mobilization/Demobilization/Site Preparation	7.71	LS		56,000
B. Drilling of Well & Installation of Steel Casing/Screen			· · · · · · · · · · · · · · · · · · ·	20,000
1. Materials		,		·
(1) 100mm x 3m Steel Casing with coupling	37	pcs.	2,846	105,302
(2) 100mm x 3m Steel Casing with one end closed	1	pcs.	2,997	2,997
(3) 100mm x 3m Steet Casing with one end closed (3) 100mm x 3m Low Carbon Steel Screen	2	pc. pcs.	4,667	9,334
, ,	0	set	1,925	2,224
(4) Casing Centralizer	v	SCI	1,923	Ŭ
2. Labor, Fuel, Lubricant and others	120		1,600	192,000
Well Drilling for 120 m depth at 150mm borehole	120	m	20,000	
3. Borehole Logging	1	no	20,000	
4. Freight Cost (8% of Materials)		LS		9,411
Sub-Total of B				339,044
C. Well Development and Pumping Test			5.500	
Well Development	12	hr.	5,500	
Pumping Test	6	hr.	5,000	
Sub-Total of C				96,000
D. Gravel Packing, Installation of Handpump and Constru	ction of P	lattorm	-	
1. Materials	_			
(1) Improved Deep Well Cylinder Pump (Afridev Type)	ì	set	11,815	
(2) 63mm x 6m Riser Pipe and Pump Rod	10	pcs.	1,880	
(3) #10 Sieved Gravel	0	cu.m	1,026	
(4) Coarse Sand	1	cu.m	359	
(5) Cement for Sanitary Seal	3	bags	127	381
(6) Pump Base and Platform				
1) Cement	4	bags	127	508
2) Gravel	2	cu.m	454	908
3) Sand	1	cu.m	359	359
4) Plywood (1,200mm x 2,400mm x 6mm)	1	pc.	294	294
5) Form Lumber (50mm x 75mm x 1,800mm)	6	pcs.	. 52	312
6) Nail	i	kg.	40	40
Sub-Total of D-1				33,776
2. Labor (40% of D-1.)				13,510
3. Freight Cost (8% of Materials)		LS		2,702
Sub-Total of D				49,988
E. Indirect Cost				
Profit (10% of A, B, C & D)				54,103
Overhead Expense (13% of A, B, C & D)		l		70,334
VAT (10% of Labor, Profit & Overhead Expense)				32,995
Sub-Total of E	†			87,098
Total of Construction Cost (A+B+C+D+E)		,		562,130
F. Estimated Government Expenses				
1. Preliminary & Detailed Engineering Cost		LS		3,600
2. Construction Supervision]	LS		2,400
3. Water Quality Analysis		LS		1,400
Sub-Total of F	†	† 	<u> </u>	7,400
GRAND TOTAL	 	 		569,530
				569,500
Note: 15 - Lumo Sum	<u> </u>	<u> </u>		, 20/,201

Table 10.2.4(c) Unit Cost of Level I (Gravel Packed Deep Well - 120m Depth) for Acid Water

				(Cost: Peso)
ription	Quantity	Unit	Unit Cost	Cost
A. Mobilization/Demobilization/Site Preparation		LS		56,000
B. Drilling of Well & Installation of Steel Casing/Screen]			
1. Materials	i			
(1) 100mm x 3m PVC Casing with Socket	37	pcs.	2,038	75,400
(2) 100mm x 3m PVC Casing with Plug	1	pc.	980	980
(3) 100mm x 3m Stainless Steel Screen	2	pcs.	12,700	25,400
(4) Casing Centralizer	2	set	1,925	3,850
2. Labor, Fuel, Lubricant and others				
Well Drilling for 120 m depth at 200mm borehole	120	m	2,500	300,000
3. Borehole Logging	1	no	20,000	20,000
4. Freight Cost (8% of Materials)	1	LS		8,451
Sub-Total of B				434,087
C. Well Development and Pumping Test				
Well Development	24	hr.	5,500	132,000
Pumping Test	6	hr.	5,000	30,000
Sub-Total of C				162,000
D. Gravel Packing, Installation of Handpump and Constru		latform		
1. Materials	!		Ì	
(1) Improved Deep Well Cylinder Pump (Afridev Type)	1	set	11,815	11,815
(2) 63mm x 3m PVC Riser Pipe and SUS Pump Rod	20	pcs.	2,450	49,000
(3) #10 Sieved Gravel	1	cu.m	1,026	1,026
(4) Coarse Sand	. 1	cu.m	359	359
(5) Cement for Sanitary Seal	4	bags	127	508
(6) Pump Base and Platform		Ŭ		
1) Cement	4	bags	127	508
2) Gravel	2	cu.m	454	. 908
3) Sand	1	cu.m	359	359
4) Plywood (1,200mm x 2,400mm x 6mm)	1	pc.	294	294
5) Form Lumber (50mm x 75mm x 1,800mm)	6	pcs.	52	312
6) Nail	1	kg.	40	40
Sub-Total of D-1	1	ľ		65,129
2. Labor (40% of D-1.)				26,052
3. Freight Cost (8% of Materials)		LS	1	5,210
Sub-Total of D	,			96,391
E. Indirect Cost				
Profit (10% of A, B, C & D)				74,848
Overhead Expense (13% of A, B, C & D)	-			97,302
VAT (10% of Labor, Profit & Overhead Expense)				49,820
Sub-Total of E	;			124,668
Total of Construction Cost (A+B+C+D+E)				741,146
F. Estimated Government Expenses	 			
1. Preliminary & Detailed Engineering Cost		LS		3,600
2. Construction Supervision		LS		2,400
3. Water Quality Analysis		LS]	1,400
Sub-Total of I	7			7,400
GRAND TOTAL	 	;	<u> </u>	748,546
				748,500
SAY Note 15 - Lump Sum	<u></u>	<u> </u>	<u> </u>	748,50

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

Description	Q'ty	Unit	Unit Cost	Amount
A. Mobilization/Demobilization		LS		8,000
B. Well Rehabilitation				
1. Materials				
(1) Cylinder Pump Set	1	set	9,570	9,570
(2) Cement for Surface Sealing	4	bags	127	508
(3) Pump Base and Platform			·	
1) Cement	4	bags	127	508
2) Gravel	2	cu.m	454	908
3) Sand	1	cu.m	359	359
4) Plywood (4' x 8' x 1/4")	1	pc.	294	294
5) Form Lumber (2" x 3" x 6")	. 6	pcs.	52	312
6) Nail	1	kg.	40	40
Sub-Total of B-1				12,499
2. Labor (40% of B-1)	:			5,000
3. Freight Cost (8% of Materials)			<u> </u>	1,000
Sub-Total of B				18,499
C. Well Development		LS		31,000
D. Indirect Cost				
Profit (10% of A, B & C)				5,750
Overhead Expense (13% of A, B & C)				7,475
VAT (10% of Profit & Labor)			·	4,175
Sub-Total of D				17,400
				-
Total of Construction Cost (A+B+C+D)				74,899
E. Estimated Government Expenses				e e e e
1. Preliminary & Detailed Engineering Cost		LS		1,300
2. Supervision		LS		800
3. Water Quality Analysis		LS		1,400
Sub-Total of E				3,500
GRAND TOTAL				78,399
SAY				78,400

Note: LS - Lump Sum

Source: DPWH standard price in 1994 Unit Cost: Adjusted to 1998 Price Level

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

				(Cost: Peso
Description	Q'ty	Unit	Unit Cost	Amount
A. Mobilization/Demobilization	L	LS		20,000
B. Drilling of Well & Installation of Steel Casing/	Screen]	
1. Materials		[
(1) 63mm x 6m PVC Pipe with socket	2	pcs.	912	1,824
(2) 63mm x 3m PVC Pipe with plug	1	pc.	452	452
(3) 63mm PVC Socket	1	рс.	12	12
(4) 63mm x 3m PVC Screen	1	pc.	1,443	1,443
(5) Casing Centralizer	2	set	725	1,450
2. Labor, Fuel, Lubricant and others				
Well Drilling for 18 m depth at 150mm borehole	18	m	1,600	28,800
3. Freight Cost (8% of Materials)		LS		298
Sub-Total of B				34,279
C. Well Development	4	br.	2,000	8,000
D. Gravel Packing, Installation of Handpump and	Constru	etion of	Platform	
1. Materials				
(1) 50mm Jetmatic Handpump	1	set	2,807	2,807
(2) 50mm Riser Pipe and Foot Valve	1	pc.	118	118
(3) #10 Sieved Gravel	0.1	cu.m	1,026	103
(4) Coarse Sand	0.07		359	2 5
(5) Cement for Sanitary Seal	4	bag	127	508
(6) Pump Base and Platform	-			
1) Cement	4	bags	127	508
2) Gravel	1	cu.m	454	454
3) Sand	i	cu.m	359	359
4) Plywood (1,200mm x 2,400mm x 6mm)	1	pc.	294	294
5) Form Lumber (50mm x 75mm x 1,800 mm)	1	pc.	52	52
6) Nail	1	kg.	40	40
Sub-Total of D-1	`	κg.	10	5,268
2. Labor (40% of D-1.)				2,107
3. Freight Cost (8% of Materials)		LS		421
Sub-Total of D		LQ.		
E. Indirect Cost				7,796
Profit (10% of A to D)				7 007
Overhead Expense (13% of A to D)				7,007
			j	9,110
VAT (10% of Profit & Overhead Expense)				1,612
Sub-Total of E				8,619
Total of Construction Cost (A+B+C+D+E)				78,694
F. Estimated Government Expenses				
1. Preliminary & Detailed Engineering Cost		LS	ł	2,400
2. Construction Supervision	1	LS	ł	1,800
3. Water Quality Analysis		LS	1	1,400
Sub-Total of F	1			5,600
GRAND TOTAL				84,294
SAY	İ			84,300
Vote: I.C. Lump Cum				0.1000

Note: LS - Lump Sum

Source: DPWH standard price in 1994 & LWUA Water Supply Feasibility Study Methodology Manual 1998

Unit Cost: Adjusted to 1998 Price Level

Table 10.2.7 Unit Cost of Level 1 (Spring Development)

Description	Q'ty	Unit	Unit Cost	Amount
A. Mobilization/Demobilization		LŚ		24,000
B. Construction of Spring Box				
1. Materials		LS		42,700
1. Materials 2. Labor (35% of 1.)		LS		14,945
		LS		3,416
3. Freight Cost (8% of Materials) Sub-Total of B				61,061
C. Installation of Pipelines & Fittings				
1. Transmission Materials	•			1
1. Transmission Materials	330	pcs.	959	316,470
63mm dia. PVC Pipe (Class 12.5 with socket)	1	no.	172	1
63mm dia. Tee	26		140	
Solvent Cement	3	1	89	
63mm dia. Elbow (90 deg.)	1	i	99	1
63mm dia. Elbow (45 deg.)	2	'	900	
50mm dia. Gate Valve	4		177	i ' I
50mm dia. x 1m Stand Pipe	'.	pc.	123	l t
63mm x 50mm GI Nipple		pc.	192	I i:
50mm dia. Union Patent	3	pcs.		1 1
63mm x 50mm dia. Reducing Socket	2	i '	113	
50mm dia. GI Elbow (90 deg.)	2	1 '	79	1 1
63mm x 50mm dia. Socket Adapter	2	1 *	167	
50mm dia. GI Gate Valve	2	1 *	791	
13mm dia. Brass Faucet	2	pcs.	59	
Sub-Total of Materials	3	İ		325,624
Labor (35% of Material Cost)		LS		113,968
Freight Cost (8% of Materials)	1	LS		26,050
Sub-Total of C				465,642
D. Indirect Cost		İ		
1. Transmission Main				
Profit (10% of C)	1		1	46,564
Overhead Expense (13% of C)		1		60,533
VAT (10% of Profit, Overhead Expense & Labor)	1		· ·	22,107
2. Source Facilities	1	1	1	
Profit (10% of A, B)			1	25,518
Overhead Expense (13% of A, B)				8,506
VAT (10% of Profit, Overhead Expense & Labor)	1	İ		4,897
Sub-Total of	Ď			168,125
Total Construction Cost (A+B+C+D)			-	718,828
Total Constitution Constitution	1		İ	
E. Estimated Government Expenses				
1. Preliminary & Detailed Engineering and RWSA Forma	tion	LS		2,400
2. Supervision		LS		15,000
2. Supervision		LS		1,400
3. Water Quality Analysis Sub-Total of	E	1		18,80
GRAND TOTAL	7		1	737,62
SAY				737,60

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

Sheet Lof 2

m. 50mm dia. GI Gate Valve

n. 32mm dia. GI Gate Valve

o. 13mm dia. GI Gate Valve

p. 13mm dia. Brass Faucet

a. 50mm dia. Tee

r. 32mm dia. Tee

t. Water Meter Box

s. Water Meter

(Cost: Peso)

1,582

6,504

1,416

612

774

24,096

894

791

447

271

59

153

129

1,004

1,297

2

2

24

24

6

24

pes.

pcs.

pcs.

pcs.

pcs.

pcs.

pcs.

pcs.

Description Q'ty Unit Unit Cost Amount 36,000 LS A. Mobilization/Demobilization B. Construction of Spring Box & Ground Reservoir 128,000 LS 1. Materials 44,800 LS 2. Labor (35% of 1.) 10,240 LS 3. Freight Cost (8% of Materials) Sub-Total of B 183,040 C. Installation of Pipelines & Fittings 1. Transmission Pipeline Materials 479,500 959 500 63mm dia. PVC Pipe (Class 12.5 with socket) pcs. 172 172 63mm dia, Tee no. 5,600 40 cans 140 Solvent Cement 159 477 3 63mm dia, x 50mm Nipple nos. 203 203 1 63mm dia. Union Patent pc. 2 246 123 63mm dia. x 50mm dia. Reducing Socket pcs. 89 89 63mm dia. Elbow (90 deg.) 1 pc. 99 99 63mm dia. Elbow (45 deg.) pc. 1,320 3,960 63mm dia. Gate Valve pcs. 490,346 Sub-Total of Materials 171,621 LS Labor (35% of Material Cost) 39,228 LS Freight Cost (8% of Materials) 701,195 Sub-Total of Transmission Main 2. Distribution Pipeline Materials 20 531 10,620 50mm dia. PVC Pipe (Class 12.5 with socket) pcs. 30 353 10,590 38mm dia. PVC Pipe (Class 12.5 with socket) pcs. 1,180 10 118 20mm dia. PVC Pipe (Class 40 with socket) pcs. 1,100 10 110 13mm dia. x 1 m Stand Pipe pcs. 140 560 cans Solvent Cement **Fittings** 3 147 441 a. 50mm dia. x 150mm PVC Nipple pcs. 3 89 267 b. 32mm dia. x 150mm PVC Nipple pcs. 29 40 1,160 c. 13mm dia. x 150mm GI Nipple pcs. 192 192 d. 50mm dia. Union Patent pcs. 2 83 166 e. 32mm dia. Union Patent pcs. 10 29 290 pcs. f. 13mm dia. Union Patent 106 636 g. 50mm dia. x 32mm dia. Reducing Socket 6 pcs. 82 820 h. 32mm dia. x 20mm dia. Reducing Socket 10 pcs. 640 64 i. 20mm dia. x 13mm dia. Reducing Socket pcs. 128 i. 50mm dia. PVC Elbow (90 deg.) 2 64 pcs. 20 15 300 k. 13mm dia. GI Elbow (90 deg.) pcs. 48 480 10 1, 20mm dia. x 13mm dia. Socket Adapter pcs.

Sub-Total of Materials

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

(Cost: Peso) Sheet 2 of 2 Description Unit Unit Cost Amount LS Labor (35% of Material Cost) 33,802 Freight Cost (8% of Materials) LS 7,726 Sub-Total of Distribution Pipeline 138,104 Sub-Total of C 839,299 D. Indirect Cost 1. Transmission Main Profit (10% of C-1) LS 70,120 Overhead Expense (13% of C-1) LS 91,155 VAT (10% of Profit, Overhead Expense and Labor) LS 33,290 2. Source Facilities and Distribution Pipeline Profit (10% of A, B, C-2) LS 35,714 Overhead Expense (13% of A, B and C-2) LS 46,429 16,075 VAT (10% of Profit, Overhead Expense and Labor) LS Sub-Total of D 292,783 Total Construction Cost (A+B+C+D) 1,351,122 E. Estimated Government Expenses 1. Preliminary & Detailed Engineering and RWSA Formation LS 2.400 15,000 LS 2. Supervision 1,400 3. Water Quality Analysis LS 18,800 Sub-Total of E **Total Estimated Cost** 1,369,922

2,283

SAY Note: LS - Lump Sum

Source:

DPWH standard price in 1994

LWUA Water Supply Feasibility Study Methodology Manual 1998

Unit Cost: Adjusted to 1998 Price Level

Unit Cost per Person Served

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

(Cost. Peso) Description Q'ty Unit Unit Cost Amount A. Mobilization/Demobilization LS 360,000 B. Source Development and Storage 1. Deep Well 2,001,000 No. 2,001,000 2. Deep Well Pump No. 832,000 832,000 3. Chlorinator House & Equipment LS 632,000 632,000 4. Storage Tank (250 cu.m) No. 1,300,000 1,300,000 Sub-Total of B 4,765,000 C. Transmission Main 1. 160mm dia. 500 1,320 LM 660,000 Sub-Total of C 660,000 D. Distribution Main 1. 160mm dia. 1,000 1,320 1,320,000 LM 2. 110mm dia. 3,000 LM 1.090 3,270,000 3. 90mm dia. 3,000 LM 684 2,052,000 4. 75mm dia. 6,000 LM 637 3,822,000 Sub-Total of D 10,464,000 E. Service Connections 1,000 Nos. 2,288,000 2,288 F. Miscellaneous 1. Vehicle No. 649,000 649,000 2. Office & Workshop Bldg. 645,000 No. 645,000 3. Office Equipment 118,000 118,000 LS 4. Tools and Spare Parts 110,000 110,000 LS Sub-Total of F 1,522,000 Total Direct Cost (A+B+C+D+E+F) 20,059,000 G. Indirect Cost (25% of Direct Cost) 5,014,750 **Total Estimated Cost** 25,073,750 Unit Cost per Person Served For New Construction 5,015 5,000 SAY For Expansion of Existing System (Exclude F.) 4,634 4,600

Note: LS - 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 1998 Price Level

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

(Cost Pesa)

				(Cost: Peso)
Description	Q'ty	Unit	Unit Cost	Amount
A. Mobilization/Demobilization		LS		360,000
D 0 D 1				
B. Source Development and Storage		Na	2001.000	3 001 000
1. Deep Well		No. No.	2,001,000	
2. Deep Well Pump	1	LS	832,000 632,000	
3. Chlorinator House & Equipment	,	No.	1,300,000	
4. Storage Tank (250 cu.m) Sub-Total of B		10.	1,300,000	4,765,000
Suo-totas of D				4,703,000
C. Transmission Main			· · · · · · · · · · · · · · · · · · ·	
1. 160mm dia.	500	LM	1,320	660,000
Sub-Total of C				660,000
D. Distribution Main				·
1. 160mm dia.	2,000	LM	1,320	
2. 110mm dia.	5,000		1,090	
3. 90mm dia.	6,000		684	4,104,000
4. 75mm dia.	9,000	LM	637	5,733,000
Sub-Total of D				17,927,000
E. Service Connections	2,000	Nos.	2,288	4,576,000
	_,,		_,	, , , , , , , , , , , , , , , , , , , ,
F. Miscellaneous				
1. Vehicle	1	No.	649,000	649,000
2. Office & Workshop Bldg.	1	No.	645,000	645,000
3. Office Equipment	1	LS	118,000	118,000
4. Tools and Spare Parts	1	LS	110,000	110,000
Sub-Total of F				1,522,000
Total Direct Cost (A+B+C+D+E+F)	. 1			29,810,000
	ļ			, , , , , ,
G. Indirect Cost (25% of Direct Cost)				7,452,500
		<u> </u>		
man para a to a				on acá ean
Total Estimated Cost				37,262,500
Unit Cost per Person Served				
For New Construction		1.5	1.	3,726
2 OF THE CONSTRUCTION				3,700
For Expansion of Existing System (Exclude	F.)		†	3,536
. or Dapanoron or Daisting Djotent (Datitute	Ĩ "			3,500

Note: LS - 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 1998 Price Level

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

				' (Cost: Peso
Description	Q'ty	Unit	Unit Cost	Amount
A. Mobilization/Demobilization		LS		360,00
B. Source Development and Storage				
1. Deep Well	2	No.	2,001,000	4,002,00
2. Deep Well Pump	2		832,000	1,664,00
3. Chlorinator House & Equipment	2		632,000	1,264,00
4. Storage Tank (250 cu.m)	2	No.	1,300,000	2,600,00
Sub-Total of B				9,530,000
C. Transmission Main	· · · · · · · · · · · · · · · · · · ·			
1. 160mm dia.	1,000	LM	1,320	1,320,000
Sub-Total of C			1,020	1,320,000
D. Distribution Main				
1. 160mm dia.	3,000	LM	1,320	3,960,000
2. 110mm dia.	7,000	4	1,090	7,630,000
3. 90mm dia.	8,000		684	5,472,000
4. 75mm dia.	10,000		637	6,370,000
Sub-Total of D				23,432,000
E. Service Connections	3,000	Nos.	2,288	6,864,000
F. Miscellaneous		···········		
1. Vehicle	I^{-1}	No.	649,000	649,000
2. Office & Workshop Bldg.	1	No.	645,000	645,000
3. Office Equipment	1	LS	118,000	118,000
4. Tools and Spare Parts	i i	LS	110,000	110,000
Sub-Total of F				1,522,000
		-		
Total Direct Cost (A+B+C+D+E+F)		•	·	43,028,000
G. Indirect Cost (25% of Direct Cost)				10,757,000
Total Estimated Cost				53,785,000
Unit Cost per Person Served				· · · · · · · · · · · · · · · · · · ·
For New Construction				3,586
For Expansion of Existing System (Exclude)	F.)			3,600 3,459
				3,500

Note: LS - 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 1998 Price Level

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

	Description	Q'ty	Unit	Unit Cost	(Cost: Peso) Amount
Ā.	Demolition Demolition	Qiy	LS	Onit Cost	1,100
Α.	Demontion		LO		1,100
В.	Earthwork				
В,	1. Materials	·			
		1		454	454
	(1) Gravel Fill Sub-Total of B-1	L	çu.m	434	454
					454
	2. Labor			1.40	0.40
	(1) Excavation	6	cu.m	140	840
	(2) Backfill	2	cu.m	127	254
	(3) Gravel Fill	1	cu.m	166	166
	Sub-Total of B-2				1,260
	Sub-Total of B				1,714
C.	Concrete Work				
	1. Materials				
	Slab on wood planks				
	(1) 16 - 2" x 8" x 6' Coco Lumber	128	bd.ft	8	1,024
	(2) 10mm dia x 6.0m Rebar	3	pc.	58	174
	(3) #16 Tie Wire	0.5	kg	58	29
	(4) Cement	10	bag	137	1,370
	(5) Sand	1.5	cu.m	359	539
	(6) Gravel	2	cu.m	454	908
	(7) Stone Lining with Mortar	1	LS	1,250	1,250
	Sub-Total of C-1	· •		1,200	5,294
	2. Labor (30% of C-1)				1,588
	Sub-Total of C				6,882
D.	Carpentry Work				0,002
υ.	1. Materials				
		60	20	2	120
	(1) Nipa (2) 15m x 1 8m amakan		pc.		225
	(2) 1.5m x 1.8m, amakan	3	pc.	75	
	(3) 2" x 3" x 10' Coco Lumber	20	bd.ft	11	220
	(4) 2" x 2" x 10' Coco Lumber	33.3	bd.ft	10	333
	(5) 3" dia. Bamboo	3	light	21	63
	(6) Assorted CWN	4	kg	43	172
	(7) Rattan wire	20	pc.	1	20
	Sub-Total of C-1				1,153
	2. Labor (30% of C-1)		<u> </u>		346
	Sub-Total of C		L		1,499
E.	Plumbing				
	1. Materials		}		
	(1) Water Closet	1	set	4,900	4,900
	(2) Water line and sanitary fixtures	1	LS	1,650	1,650
	Sub-Total of E-1				6,550
	2. Labor (30% of E-1)				1,965
	Sub-Total of E	1	[8,515
F.	Transportation Cost	1	LS	540	540
	(excluding indigenous materials)				
G.	Indirect Cost	1			
<u> </u>	Profit (10% of A - F)	}			2,025
	VAT (10% of Profit & Labor)		1		718
	Sub-Total of F		f	 	2,743
	Total of Construction Cost	 	 		22,993
	(A+B+C+D+E+F+G)			SAY	23,000
L	(ATDTCIDIEITIG)		<u> </u>	Interior Interior	20,000

Note: LS - Lump Sum
Source: DOH standard price in 1993
Unit Cost: Adjusted to 1998 Price Level

Table 10.2.13 Unit Cost of Pour Flush with Double Pit Latrine

<u> </u>		Description	014	17-24	I II. II Cart	(Cost: Pesc
A		Earthwork	Q'ty	Unit	Unit Cost	Amount
Α.	1					
	ι.	Materials		1	1	
		(1) Gravel Fill	l	cu.m	454	454
		Sub-Total of A-1				454
	2.	Labor				
		(1) Excavation	6	cu.m	140	840
		(2) Backfill	2	cu.m	127	254
1		(3) Gravel Fill	ī	cu.m	166	166
		Sub-Total of A-2	•	00.111	100	1,260
İ		Sub-Total of A				1,714
<u></u>						1,/14
В.	,	Concrete Work				!
	1.	Materials				İ
1		Slab on wood planks				
		(1) 16 - 2" x 8" x 6' Coco Lumber	128	bd.ft	8	1,024
l		(2) 10mm dia x 6.0m Rebar	3	pc.	58	174
		(3) #16 Tie Wire	0.5	kg	- 58	29
		(4) Cement	10	bag	137	1,370
		(5) Sand	1.5	cu.m	359	539
		(6) Gravel	2	cu.m	454	908
Į		(7) Stone Lining with Mortar				
1			1	LS	1,250	1,250
	^	Sub-Total of B-1				5,294
	2.	Labor (25% of B-1)			<u> </u>	1,323
		Sub-Total of B				6,617
C.		Carpentry Work				
	1.	Materials				
ŀ		(1) Nipa	60	pc.	2	120
		(2) 1.5m x 1.8m, amakan	3	pc.	75	225
		(3) 2" x 3" x 10' Coco Lumber	20	bd.ft	11	220
		(4) 2" x 2" x 10' Coco Lumber	33.3	bd.ft		
l		(5) 3" dia. Bamboo			10	333
ĺ			3	light	21	63
		(6) Assorted CWN	4	kg	43	172
		(7) Rattan wire	20	pc.	1	20
		(8) Pale (medium)	1	pc.	203	203
		(9) 3" dia. PVC x 3m	1	pc.	665	665
		(10) 3" dia. PVC Elbow	2	pc.	70	140
		(11) PVC solvent	ī	pint	54	54
		(12) Ga. 31" x 8' plain GI sheet	i	sheet	214	214
		Sub-Total of C-1	1	SHOOL	""	
	2					2,429
	۷.	Labor (25% of C-1)			[607
15		Sub-Total of C		 -	ļ	3,036
D.		Plumbing				
	l.	Material	ļ			
		(1) Toilet Bowl-Squat Type	1	pc.	220	220
		(2) 75mm dia x 6.0m PVC Pipe	1 l	pc.	152	152
		Sub-Total of D-1	-	F ***		372
	2	Labor (25% of D-1)	1			93
	٠.	Sub-Total of D	·		{	465
E.		Transportation Cost		LS	340	
Ľ,			1	ro	340	340
		(excluding indigenous materials)			<u> </u>	
F.		Indirect Cost	T	· 		
		Profit (10% of A - D)				1,487
50		VAT (10% of Profit & Labor)	i			477
		Sub-Total of F				1,964
				· · · · - · · ·		
		Total Construction Cost		41	e.v	14,136
+1.5		(A+B+C+D+E+F)			SAY	14,100

Note: LS - Lump Sum
Source: DOH standard price in 1993
Unit Cost: Adjusted to 1998 Price Level
Unit Cost of Toilet Bowl: ferrerd to ADB-assisted RW3SP

Table 10.2.14 Unit Construction Cost of Ventilated Improved Pit Latrine

					(Cost: Peso)
	Description	Q'ty	Unit	Unit Cost	Amount
Ä.	Earthwork				
	1. Materials				
	(1) Gravel Fill	0.5	cu.m	454	227
	Sub-Total of A-1			:	227
	2. Labor				
	(1) Excavation	3	cu.m	140	420
	(2) Backfill	1	cu.m	127	127
		0.5	cu.m	166	83
	(3) Gravel Fill	0.5	Cuan	100	630
	Sub-Total of A-2				
	Sub-Total of A				857
B.	Concrete Work				
	1. Materials	:			:
i	Slab on wood planks			_	
l	(1) 2" x 8" x 6' Coco Lumber	64	bd.ft	8	512
ı	(2) 10mm dia x 6.0m Rebar	2	pc.	58	116
	(3) #16 Tie Wire	0.5	kg	58	29
	(4) Cement	4	bag	137	548
	(5) Sand	0.5	çu.m	359	180
	(6) Gravel	0.5	cu.m	454	227
	(7) Stone Lining with Mortar	1	LS	1,200	1,200
	Sub-total of B-1	•	2.0	.,	2,812
	2. Labor (25% of B-1)				703
	Sub-Total of B				3,515
C.	Carpentry Work				3,313
L.					
	1. Materials	70		2	120
	(1) Nipa	60	pc.	2	120
	(2) 1.5m x 1.8m, amakan	3	pc.	75	225
	(3) 2" x 3" x 10' Coco Lumber	20	bd.ft	11	220
1	(4) 2" x 2" x 10' Coco Lumber	33.3	bd.ft	10	333
	(5) 3" dia. Bamboo	3	light	21	63
	(6) Assorted CWN	4	kg	. 43	172
	(7) Rattan wire	20	pc.	1	20
	(8) 3" x 3" hinges	2	pc.	32	64
	Sub-Total of C-1				1,217
İ	2. Labor (25% of C-1)				304
	Sub-Total of C		}	T	1,521
D.	Plumbing				
	1. Material				427
	(1) 50mm dia. PVC Pipe	1	no.	76	76
		1 1	pc.	59	59
	(2) Fly Screen	1	pc.	39	
l	Sub-Total of D-1				135
	2. Labor (25% of D-1)		ļ	ļ	41
<u> </u>	Sub-Total of D				176
E.	Transportation Cost	1	LS	170	170
	(excluding indigenous materials)				
F.	Indirect Cost				
	Profit (10% of A - E)				624
	VAT (10% of Profit & Labor)				230
	Sub-Total of F		1	T	854
ļ	Total Construction Cost		;		7,093
• .	(A+B+C+D+E+F)			SAY	7,100
IL	ANDICIDIE II	<u> </u>		17111	74100

Note: LS - Lump Sum
Source: DOH standard price in 1993
Unit Cost: Adjusted to 1998 Price Level

Table 10.2.15 Unit Construction Cost of Pit Latrine

<u> </u>	~~~	Description	Q'ty	Unit	Unit Cost	(Cost: Peso) Amount
A,		Earthwork	X 13	Ont	Cint Cost	71111041111
''	1	Materials				
	• • •	(1) Gravel Fill	0.3	çu.m	454	136
		Sub-Total of A-1	0.3	Çu.m	754	136
	2	Labor				130
	£,	(1) Excavation	2	cu.m	140	280
		(2) Backfill	0.6	cu.m	127	76
		(3) Gravel Fill	0.0	cu.m	166	50
		Sub-Total of A-2	0.5	Cu.iii	100	406
		Sub-Total of A				542
В.		Concrete Work		 		342
Ь.	1	Materials				
	١.	Slab on wood planks				
		(1) 2" x 8" x 6' Coco Lumber	38	bd.ft	8	304
		(2) 10mm dia x 6.0m Rebar	30		58	58
		(3) #16 Tie Wire	0.5	pc.	58	29
		(4) Cement	3	kg.	137	411
		(5) Sand	0.3	bag	359	108
		(6) Gravel	0.3	cu.m	454	136
		• /	0.3	cu.m LS	700	700
		(7) Stone Lining with Mortar Sub-total of B-1	1	Lo	/00	
	2	· · · · · · · · · · · · · · · · · · ·				1,746 436
,	Z.	Labor (25% of B-1) Sub-Total of B				
C.		Carpentry Work				2,182
C.	1	Materials				•
	ι,		30	20	2	60
		(1) Nipa (2) 1 0m v 1 8m. amakan	30	pc.	75	225
		(2) 1.0m x 1.8m, amakan		pc. bd.ft		154
		(3) 2" x 3" x 10' Coco Lumber	14	1	11	
		(4) 2" x 2" x 10' Cocó Lumber	24	bd.ft	10	240
		(5) 3" dia. Bamboo	3	light	21	63
		(6) Assorted CWN	3	kg	43	129
		(7) Rattan wire	14	pc.	1	14
		(8) 3" x 3" hinges	2	pc.	32	64
	•	Sub-Total of C-1				949
	Z.	Labor (25% of C-1)				237
n		Sub-Total of C		10	170	1,186
D.		Transportation Cost	1	LS	170	170
		(excluding indigenous materials)				
E.		Indirect Cost				201
		Profit (10% of A -D)				391
	1	VAT (10% of Profit & Labor)				164
<u> </u>	<u> </u>	Sub-Total of E				555
		Total Construction Cost				4,635
		(A+B+C+D+E)		<u> </u>	SAY	4,600

Note: LS - Lump Sum
Source: DOH standard price in 1993
Unit Cost: Adjusted to 1998 Price Level

Table 10.2.16 Unit Cost of School Toilet

Sheet 1 of 5 (Cos Description Q'ty Unit Unit Cost Amo								
		Description Q'ty Unit Unit Cost Mobilization and Demobilization LS						
Δ		Mobilization and Demobilization		LS		6,000		
B.		Earthwork				ļ.		
1	1.	Materials						
		(1) Gravel Fill	3	cu.m	454	1,362		
		Sub-Total of B-1				1,362		
1	2.	Labor						
		(1) Excavation	16	cu.m	140	2,240		
		(2) Backfill	5	cu.m	127	635		
		(3) Gravel Fill	3	cu.m	166	498		
Ì		Sub-Total of B-2				3,373		
<u> </u>		Sub-Total of B				4,735		
C.		Concrete Work						
	1.	Materials				ļ ·		
		(1) Cement	61	bags	137	8,357		
		(2) Sand	4	¢u.m	359	1,436		
		(3) Gravel	8	cu.m	454	3,632		
ĺ		(4) Rebars: 12mm dia x 6m	38	pcs.	79	3,002		
		10mm dia x 6m	57	pcs.	58	3,306		
		(5) #16 Tie Wire	8	kg.	58	464		
		(6) Formworks:						
		1/4" Plywood	6	pcs.	477	2,862		
•		2" x 2" x 10', Coco Lumber	200	bd.ft.	10	2,000		
		Sub-Total of C-1				25,059		
İ	2.	Labor (30% of C-1)		LS		7,518		
ļ		Sub-Total of C				32,577		
D.		Masonry Work						
	l.	Materials			_			
,		(1) 6" CHB	800	pcs.	6	4,800		
		(2) 4" CHB	260	pcs.	5	1,300		
		(3) Cement	97	bags	137	13,289		
		(5) Sand	10	cu.m	359	3,590		
İ		(6) Rebars: 12mm dia x 6m	30	pcs.	79	2,370		
		10mm dia x 6m	11	pcs.	- 58	638		
l		(7) #16 Tie Wire	4	kg.	- 58	232		
		(8) Scaffolding:			•	40.1		
İ		2" x 4" x 8' x 10pcs., Coco Lumber	53	bf.	8	424		
	2	Sub-Total of D-1				26,643		
	۷.	Labor (30% of D-1)		LS		7,993		
<u></u>		Sub-Total of D				34,636		
E.	5	Roofing Work						
	1.	Materials (1) GA #26 Corr. GI (1 = 10')	ากั	1100	110	6 200		
		• • • • • • • • • • • • • • • • • • • •	20	pcs.	310	6,200		
li .		(2) GA #24 Pln. Gl Flashing (3) GA #24 Pln. Gl Gutter (Pre-Fab)	3	pcs.	300	2 700		
			9	pes.	300	2,700		
		(4) Umbrella Nails 2-1/2" (5) Pages 2" v 5" v 18" = 5nee	12	kg.	50	600		
		(5) Rafter - 2" x 5" x 18" = 5pcs.	75	bf. bf.	35	2,625		
		(6) Purlins - 2" x 2" x 12" = 18pcs.	72		35	2,520		
		(7) WD Cleats - 2" x 2" x 10" = 6pcs.	120	bf. bf.	35	700		
		(8) Nailers - 2" x 2" x 12" = 30pcs.	120 120		35	4,200		
<u>L</u>		$-2" \times 2" \times 10' = 36$ pcs.	120	bf.	35	4,200		

Table 10.2.16 Unit Cost of School Toilet

Sheet 2 of 5 (Cost: Peso) Unit **Unit Cost** Amount Description Q'ty (9) Fascia Board $1'' \times 12'' \times 12' = 4pcs.$ 35 1,680 48 bf. 1,224 $1'' \times 12'' \times 18' = 2pcs.$ 36 bf. 34 (10) Wood Plate $2'' \times 4'' \times 20' = 2pcs$. 27 bf. 34 918 32 448 (11) 1/4" Thk. Mar. Plywood 4'x8' 14 pcs. 43 645 (12) C.W.N. Assorted 15 kg. 91 273 (13) 3" dia x 3m Downspout (PVC) 3 pcs. (14) 3" dia Elbow (PVC) 2 70 140 pcs. (15) 3" dia Coupling (PVC) 26 26 ١ pcs. (16) Ceiling Vent 3 29 87 $1'' \times 1'' \times 8' = 4pcs.$ bf. 91 91 (17) Screen (1/8" x 1/8") 1 yd. 30,177 Sub-Total of E-1 9,053 2. Labor (30% of E-1) LS Sub-Total of E 39,230 F. Carpentry Work 1. Materials (1) D - 1 Hollow Core Tanguile 2 1,620 3.240 Flush Type Door w/ Louver (.80x2.20) sets (2) D - 2 Hollow Core Tanguile 1,216 1.216 Flush Type Door (.60x2.10) 1 sets 1,013 5,065 5 (3) D - 3 Louver Door (.60x1.40) sets (4) Door Jambs (Apitong) 37 518 $2'' \times 6'' \times 14'' = 1pc$. bf. 14 720 $2'' \times 6'' \times 10'' = 2pcs.$ 20 bf. 36 $2'' \times 6'' \times 10'' = 1$ pc. 18 bſ. 35 630 $2'' \times 4'' \times 12'' = 5pcs.$ 40 bf. 34 1,360 (7) Wooden Jalousie Window With 5 Blades (.40x.50) 14 set 338 4,732 (8) Window Jambs (Apitong) 2,880 80 $2'' \times 6'' \times 16'' = 5$ pcs. bf. 36 14 bf. 35 490 $2'' \times 6'' \times 14'' = 1pc$. 340 34 $2'' \times 6'' \times 10'' = 1$ pc. 10 bf. (9) Cabinet 1 878 878 $3/4'' \times 4' \times 8' = 1$ pc. (plyboard) pc. 22,069 Sub-Total of F-1 6,621 2. Labor (30% of F-1) LS 28,690 Sub-Total of F Tile Work G. 1. Materials (1) 4-1/4" x 4-1/4", Glazed Tiles 1,950 5 9,750 pcs. 6,300 7 (2) 0.10m x 0.20m, Floor Tiles 900 pcs. 548 137 bags (3) Cement 4 742 (4) White Cement l bag 742 17,340 Sub-Total of G-1 5,202 2. Labor (30% of G-1) LS

22,542

Sub-Total of G

Table 10.2.16 Unit Cost of School Toilet

Sheet 3 of 5 (Cost: Peso)

Sheet	3 of 5 Description	Q'ty	Unit	Unit Cost	(Cost: Peso) Amount
II.	Plumbing Work	<u> </u>	Ont	Onn Cost	ZMOUIN
11.	1. Materials			* *	
	(1) Toilet Bowl - Squat Type	3	sets	703	2,109
	` '	2	sets	703	1,406
	(2) Toilet Bowl - Sit Type	2	sets	3,300	6,600
	(3) Lavatory	4		175	700
	(4) 4" dia x 3m PVC San. Pipe	7	pcs.	-98	686
	(5) 3" dia x 3m PVC San. Pipe	4	pcs.	59	236
	(6) 1-1/2" dia x 3m, PVC San. Pipe	-	pcs.	62	248
	(7) 2" dia. x 3m, PVC San. Pipe	4	pcs.	1	
	(8) 6" x 4", Floor Drain	5	pcs.	98	490
	(9) 2" dia. Elbow PVC	4	pcs.	53	212
	(10) 4" dia WYB PVC	2	pcs.	38	76
	(11) 4" dia. x 3" dia. WYB PVC	12	pcs.	35	420
	(12) 4" dia. x 2" dia. TEE PVC	4	pcs.	36	144
	(13) 4" dia. TEE PVC	3	pcs.	47	141
	(14) 1-1/2" dia. WYB PVC	1.	pcs.	20	20
	(15) 4" dia. Clean Out PVC	3	pcs.	41	. 123
	(16) 3" dia. Clean Out PVC	1	pcs.	32	32
	(17) Faucet	3	pcs.	59	177
	(18) 3" dia. x 2" dia. WYB PVC	2	pcs.	32	64
	(19) 1-1/2" dia. Elbow PVC	6	pcs.	40	240
	(20) PVC Cement	1	can	142	142
	(21) Check Valve 1-1/2"	1	pcs.	214	214
	(22) 4" P-Trap	5	pcs.	77	385
	Sub-Total of H-1				14,865
	2. Labor (30% of H-1)		LS		4,460
	Sub-Total of H				19,325
I.	Painting			-	
	1. Materials				
	(1) Acrylic, Semi Gloss	8	gals.	295	2,360
	(2) Concrete Sealer	4	gals.	233	932
	(3) Acri Color: Wood	4	gals.	200	800
	(4) Enamel, QDE	6	gals.	310	1,860
1	(5) Wood Putty	1	gals.	342	342
	(6) Paint Thinner	1	gals.	. 67	. 67
	(7) Tinting Color	4	pint	45	180
	(8) Sand Paper (Assorted)	15	pcs.	8	120
	(9) Miscellaneous	1	LS	1,200	1,200
	(10) Roof Paint (green, ready-mix)	. 2	gals.	319	638
	Sub-Total of I-1		1		8,499
	2. Labor (30% of I-1)	ł	LS		2,550
	Sub-Total of I				11,049
J.	Electrical Work			garage and the	
	1. Materials				
	(1) 40 Watts Fluorescent Lamp	2	sets	289	578
	(2) Elect. Wire TW #12	. 24	M	7	168
	(3) Elect. Conduit - 1/2" dia x 10"	4	pcs.	88	352
	(4) Entrance Cap. 1/2" dia	1	pc.	32	32
	(5) Switch Outlet, Flush Type	2	pcs.	44	88
11	(6) Utility Box 2"x3"	2	pcs.	12	24
	101 OHHIY DOA & AJ		, pos.	124	

Table 10.2.16 Unit Cost of School Toilet

Table 10.2.16 Unit Con	st of sent	on ronce		(Cost: Peso)
heet 4 of 5 Description	Q'ty	Unit	Unit Cost	Amount
(7) Porcelain Receptacle 2" dia	2	pcs.	7	14
	1	set	555	555
(8) Safety Switch 60A, 250V	1	roll	25	25
(9) Electrical Tape	1	IOII	2.5	1,836
Sub-Total of J-1		1.0		551
2. Labor (30% of J-1)		LS		2,387
Sub-Total of J				2,307
ζ. Hardware			,	
1. Materials			20	200
(1) 3" x 3" Butt Hinges (Loose Pin)	10	pes.	20	200
(2) 4" x 4" Butt Hinges (Loose Pin)	12	pcs.	36	432
(3) Door Lockset (Schlage US)	3	pcs.	650	1,950
(4) Barrel Bolt (4")	5	pes.	45	225
(5) Cabinet Pull (4")	5	pcs.	7	. 35
(6) Water Storage Cover				
Checkered Plate 1/4" thick		Ì		
1-7/16" x 5/8", L-bar & flat bar	. 1	set	1,116	1,116
5/8" x 9/16", L-bar & flat bar	2	set	629	1,258
(7) Padlock	1	pcs.	429	429
Sub-Total of K-1	•	l		5,645
2. Labor (30% of K-1)	İ	LS		1,694
Sub-Total of K				7,339
Septic Tank and Sewage Basin			· · · · · · · · · · · · · · · · · · ·	1 1
•				
1. Materials	180	pcs.	5	900
(1) 4" CHB	18	-	137	2,466
(2) Cement	1	bags	359	718
(3) Sand	2	cu.m		454
(4) Gravel	1	cu.m	454 58	
(5) Rebars: 10mm dia x 6m	29	pcs.	1	1,682
(6) #16 Tie Wire	2	kg.	58	116
(7) Formworks: Coco Lumber		l		1
$2'' \times 3'' \times 10' = 12$ pcs.	60	bf.	11	660
1/4" x 4' x 8', Plywood ord.	2	pcs.	477	954
C.W.N. (Assorted)	2	kg.	43	86
Sub-Total of L-1				8,036
2. Labor (30% of L-1)		LS		2,411
Sub-Total of L				10,447
M. Shallow Well (18 depth)				
a. Drilling of Well & Installation of				ļ
Steel Casing/Screen				
1. Materials				
(1) 63mm x 6m PVC Pipe with socket	2	pcs.	912	1,824
(2) 63mm x 3m PVC Pipe with plug	ĺ	pc.	452	452
	1	pc.	12	12
(3) 63mm PVC Socket	1 1	,	1,443	1,443
(4) 63mm x 3m PVC Screen		pc.		3,731
Sub-Total of M-a-	'			3,731
2. Labor, Fuel, Lubricant and others		1		
Well Drilling for 18m depth at	·		1.000	20.000
150mm borehole	18	m	1,600	28,800
Sub-Total of M-		 	 	32,531
b. Well Development	1 1	LS	600	600

Table 10.2.16 Unit Cost of School Toilet

Sheet 5 of 5 (Cost: Peso) Description Q'ty Unit **Unit Cost** Amount M. c. Gravel Packing, Installation of Hand-**Pump and Construction of Platform** 1. Materials 2,807 2,807 (1) 50mm Jetmatic Handpump 1 set (2) 50mm x 1m GI Pipe (Sch. 40) 1 118 118 pc. (3) #10 Sieved Gravel 0.1 1,026 103 çu.m (4) Coarse Sand 0.07 cu.m 359 25 (5) Cement for Sanitary Seal 1 127 127 bag (6) Pump Base and Platform 1) Cement 4 127 508 bags 2) Gravel ı cu.m 454 454 3) Sand 1 359 359 cu.m 294 4) Plywood (1,200mm x 2,400mm x 6mm) 294 1 pc. 5) Form Lumber (50mmx75mmx1,800mm 1 52 52 p¢. 40 6) Nail 40 kg. 4,887 Sub-Total of M-c-1 2. Labor (40% of M-c-1) 1,955 LS Sub-Total of M-c 6,842 Sub-Total of M 39,973 Freight Cost (8% of Materials for A - M LS 13,121 excluding sand and gravel) O. Indirect Cost Profit (10% of A - N) 27,205 VAT (10% of Profit & Labor) 8,059 Sub-Total of O 35,264 **Total of Construction Cost** 307,315 (A to O) **Estimated Government Expenses** 1. Preliminary & Detailed Engineering Cost 2,400 2,400 LS 2. Construction Supervision 1,800 1,800 LS Sub-Total of P 4,200 GRAND TOTAL 311,515

Note: LS - Lump Sum

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

Table 10.2.17 Unit Cost of Public Toilet

Sheet 1 of 5 (Cost: Peso) Description Q'ty Unit Unit Cost Amount A. Mobilization and Demobilization LS 7.000(2.4% of B - M) R. Earthwork 1. Materials (1) Gravel Fill cu.m 454 1,362 Sub-Total of B-1 1,362 2. Labor (1) Excavation 15.88 140 2,223 cu.m (2) Backfill 4.97 cu.m 127 631 (3) Gravel Fill 166 498 cu.m Sub-Total of B-2 3,352 Sub-Total of B 4,714 Concrete Work 1. Materials (1) Cement 61 8,357 bags 137 (2) Sand 359 4 cu.m 1,436 (3) Gravel 8 454 cu.m 3,632 (4) Rebars: 12mm dia x 6m 38 **79** 3,002 pcs. 10mm dia x 6m 57 3,306 58 pcs. (5) #16 Tie Wire 8 kg. 58 464 (6) Formworks: 1/4" Plywood 477 pcs. 2.862 2" x 2" x 10" (Coco Lumber) 200 bd.ft. 10 2,000 Sub-Total of C-1 25,059 7,518 2. Labor (30% of C-1) Sub-Total of C 32,577 D. Masonry Work 1. Materials (1) 6" CHB 800 4,800 pcs. (2) 4" CHB 260 pcs. 1,300 (3) Cement 97 13,289 bags 137 (5) Sand 10 cu.m 359 3,590 (6) Rebars: 12mm dia x 6m **79** 30 2,370 pcs. 10mm dia x 6m 58 638 11 pcs. (7) #16 Tie Wire kg. 58 232 (8) Scaffolding: $2'' \times 4'' \times 8'' = 10$ pcs. (Coco Lumber) 53.33 hf. 427 Sub-Total of D-1 26,646 7,994 2. Labor (30% of D-1) Sub-Total of D 34,640 Roofing Work E.

20

9

12

75

72

pcs.

pcs.

pcs.

kg.

bf.

bf.

bf.

310

300

300

50

35

35

6,200

2,700

2,625

2,520

700

900

600

1. Materials

(1) GA #26 Corr. GI (1 = 10')

(5) Rafter - $2'' \times 5'' \times 18' = 5pcs$.

(6) Purlins - $2^n \times 2^n \times 12^t = 18$ pcs.

(7) WD Cleats - $2'' \times 2'' \times 10'' = 6$ pcs.

(3) GA #24 Pln. GI Gutter (Pre-Fab)

(2) GA #24 Pln. GI Flashing

(4) Umbrella Nails 2-1/2"

Table 10.2.17 Unit Cost of Public Toilet

Sheet 2 of 5 (Cost: Peso)

Description Q'ty Unit Unit Cost Amount

Description	Q'ty	Unit	Unit Cost	Amount
(8) Nailers - 2" x 2" x 12' = 30pcs.	120	bf.	35	4,200
$-2'' \times 2'' \times 10' = 36$ pcs.	120	bf.	35	4,200
(9) Fascia Board				
$1'' \times 12'' \times 12' = 4 \text{pcs.}$	48	bf.	35	1,680
$1'' \times 12'' \times 18' = 2pcs.$	36	bf.	34	1,224
(10) Wood Plate				- ,
2" x 4" x 20' = 2pcs.	26.66	bf.	34	906
(11) 1/4" Thk. Mar. Plywood 4' x 8'	14	pcs.	32	448
(12) C.W.N. Assorted	15	kg.	43	645
(13) 3" dia x 3m Downspout (PVC)	3	pcs.	91	273
(14) 3" dia Elbow (PVC)	2	pes.	70	140
(14) 3 dia Coupling (PVC)	آ آ	pcs.	26	26
(16) Ceiling Vent, 1" x 1" x 8' x 4pcs.	2.67	bf.	29 29	77
(17) Screen (1/8" x 1/8")	2.57	yd.	91	91
Sub-Total of E-1	'	, u.	' '	30,156
2. Labor (30% of E-1)				9,047
Sub-Total of E	 -			39,203
F. Carpentry Work	 	···	· · · · · · · · · · · · · · · · · · ·	37,200
1. Materials				
(1) D - 1 Hollow Core Tanguile				
Flush Type Door w/ Louver (0.80 x 2.2	2	sets	1,620	3,240
(2) D - 2 Hollow Core Tanguile] "	3013	1,020	3,240
Flush Type Door (0.60 x 2.10)	1	sets	1,216	1,216
(3) D - 3 Louver Door (0.60 x 1.40)	5	sets	1,210	5,065
(3) D - 3 Louver Door (0.00 x 1.40) (4) Door Jambs (Apitong)		3013	1,013	3,003
2" x 6" x 14" = 1pc.	14	bf.	37	518
2" x 6" x 14" = 1pc. 2" x 6" x 10" = 2pcs.	20	bf.	36	
2 x 6 x 10 - 2pcs. 2" x 6" x 10" = 1pc.	18	bf.	35	1
2" x 4" x 12" = 5pcs.	40	or. bf.	33	1,360
(7) Wooden Jalousie Window	"'	01.		1,300
With 5 Blades (0.40 x 0.50)	14	sot.	338	4,732
(8) Window Jambs (Apitong)	14	set	338	4,73
(8) Window James (Apitong) 2" x 6" x 16" = 5pcs.	80	bf.	24	2,880
2" x 6" x 10" = 5pcs. 2" x 6" x 14" = 1pc.	14	bf.	36 35	1
2" x 6" x 14" = 1pc. 2" x 6" x 10" = 1pc.	10	bf.	33	
	. 10	UI.	34	341
(9) Cabinet 3/4" x 4' x 8' = 1pc. (plyboard)	,	, no	878	070
$3/4^{\circ} \times 4 \times 8 = 1$ pc. (plyboard) Sub-Total of F-1	1	pc.	0/8	878 22,069
·	'			
2. Labor (30% of F-1)	ļ	 		6,62
Sub-Total of F	+	<u> </u>		28,69
G, Tile Work			Section 1	
1. Materials	1.050		_	0.75
(1) 4-1/4" x 4-1/4" Glazed Tiles	1,950	1 -	3	9,75
(2) 0.10 x 0.20m Floor Tites	900	pcs.	1 122	6,30
(3) Cement	4	bags	137	
(4) White Cement	'	bag	742	ł.
(5) Tiles Fittings		LS		5,65
Sub-Total of G-1				22,99
2. Labor (30% of G-1)			:	6,89
Sub-Total of G	<u>`</u>		<u></u>	29,88

Table 10.2.17 Unit Cost of Public Toilet

Sheet 3 of 5 (Cost: Peso)

1. Plumbing Work 1. Materials (1) Urinal 3 sets 1,253 3,7 (2) Toilet Bowl - Squat Type 6 sets 703 4,2 (3) 4" dia x 3m PVC San. Pipe 6 pes. 175 1,0 (4) 3" dia x 3m PVC San. Pipe 4 pes. 98 33 (5) 2" dia x 3m PVC San. Pipe 3 pes. 62 14 (6) 3/4" dia x 6m GI Pipe Sch. 40 5 pes. 288 1,4 (7) 1/2" dia x 6m GI Pipe Sch. 40 1 pes. 213 2 (8) 4" x 4" WVE PVC 1 pes. 38 (7) 1/2" dia Elbow PVC 10 pes. 70 70 70 70 70 70 70 7	Sheet 3 of 5							
1. Materials (1) Urinal (2) Toilet Bowl - Squat Type (3) 4" dia x 3m PVC San. Pipe (4) 3" dia x 3m PVC San. Pipe (4) 3" dia x 3m PVC San. Pipe (5) 2" dia x 3m PVC San. Pipe (6) 3/4" dia x 6m Gl Pipe Sch. 40 (7) 1/2" dia x 6m Gl Pipe Sch. 40 (8) 4" x 4" WYE PVC (10) 3" dia Elbow PVC (10) 3" dia 6 degrees Bend PVC (10) 3" dia 6 degrees Bend PVC (11) 2" dia 6 degrees Bend PVC (12) 2" dia 6 degrees Bend PVC (13) 1/2" dia 1Ebow Gl (14) 4" dia 3" dia WYE PVC (15) 3/4" dia TEE Gl (16) 1/2" dia TEE Gl (16) 1/2" dia Clean Out PVC (18) 4" dia Clean Out PVC (19) 2" dia Clean Out PVC (20) Faucet (21) 3" dia x 2" dia WYE PVC (3) pcs. (41) 4" dia x 2" dia WYE PVC (52) 3" dia x 2" dia WYE PVC (60) Gate Valve 1/2" dia (15) 3/4" dia Tee dia WYE PVC (16) 3" dia x 2" dia WYE PVC (17) 4" dia x 2" dia WYE PVC (18) 4" dia x 2" dia WYE PVC (29) 7" dia x 2" dia WYE PVC (20) 7" dia x 2" dia WYE PVC (21) 3" dia x 2" dia WYE PVC (22) 3" dia x 2" dia WYE PVC (23) 2" dia x 2" dia WYE PVC (24) 3" dia x 2" dia WYE PVC (25) 4" dia x 2" dia WYE PVC (26) Gate Valve 3/4" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4" dia x 1/2" dia Elbow Reducer Gl (3) Wood Putty (4) Protator dia WYE PVC (5) Gate Valve 1/2" dia (6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (9) Miscellaneous (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Labor (30% of 1-1)	Description	Q'ty	Unit	Unit Cost	Amount			
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(7) 1/2" dia x 6m GI Pipe Sch. 40 (8) 4" x 4" WYE PVC (10) 3" dia Elbow PVC (10) 3" dia Elbow PVC (10) 3" dia Elbow PVC (11) 2" dia Elbow PVC (12) 2" dia 45 degrees Bend PVC (13) 1/2" dia Elbow GI (14) 4" dia 3" dia WYE PVC (15) 3/4" dia TEE GI (16) 1/2" dia TEE GI (17) 4" dia x 2" dia TEE PVC (18) 4" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (20) Faucet (21) 3" dia x 2" dia Elbow Reducer PVC (21) 3" dia x 2" dia WYE PVC (22) 3" dia x 2" dia WYE PVC (23) 2" dia x 2" dia WYE PVC (24) PVC Cement (25) 4" dia x 2" dia WYE PVC (26) Gate Valve 1/2" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4"dia x1/2"dia Elbow Reducer GI (29) Sub-Total of H-1 (20) Macerials (1) Acrylic, Semi Gloss (2) Concrete Sealer (3) Acri Color: Wood (4) Enamel, QDE (5) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Fuscel (above Color) (20) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Labor (30% of I-1) (20) Concrete Sequer (20) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Labor (30% of I-1) (20) Concrete Sequer (20) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Labor (30% of I-1) (21) Concrete Sequer (21) Concrete Sequer (22) Miscellaneous (10) Roof Paint (green, ready-mix) (22) Gales Labor (30% of I-1) (23) Concrete Sequer (24) Labor (30% of I-1) (25) Concrete Sequer (25) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Concrete Sequer (21) Concrete Sequer (22) Miscellaneous (23) Concrete Sequer (24) Miscellaneous (25) Miscellaneous (26) Gales Valve I/2" dia (27) Gales Valve I/2" dia (28) Miscellaneous (29) Miscellaneous (20) Miscellaneous (20) Miscellaneous (20) Miscellaneous (20) Miscellaneous (20) Miscellaneous (20) Miscellaneous (20) Miscellaneous (21) Miscellaneous (22) Miscellaneous (23) Concrete Sequer (24) PVC Cem	•	3	pcs.	62	186			
(8) 4" x 4" WYE PVC (9) 3" dia Flbow PVC (10) 3" dia Flbow PVC (10) 3" dia Flbow PVC (10) 3" dia Flbow PVC (10) 3" dia Flbow PVC (11) 2" dia Flbow PVC (12) 2" dia Flbow PVC (13) 1/2" dia Flbow Gl (14) 4" dia 3" dia WYE PVC (15) 3/4" dia TEE Gl (15) 3/4" dia TEE Gl (17) 4" dia x 2" dia TEE PVC (18) 4" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (20) Faucet (21) 3" dia x 2" dia Blbow Reducer PVC (21) 3" dia x 2" dia WYE PVC (22) 3" dia x 2" dia WYE PVC (22) 3" dia x 2" dia WYE PVC (23) 2" dia x 2" dia WYE PVC (24) PVC Cement (25) 4" dia x 2" dia WYE PVC (26) Gate Valve 3/4" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4" dia x 1/2" dia Elbow Reducer Gl Sub-Total of H 1. Painting 1. Materials (1) Acrylic, Semi Gloss (2) Concrete Sealer (3) Acri Color: Wood (4) Enamel, QDE (5) Wood Putty (6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (9) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of 1-1 Sub	(6) 3/4" dia x 6m GI Pipe Sch. 40	5	pes.	288	1,440			
(9) 3" dia Elbow PVC (10) 3" dia 45 degrees Bend PVC (10) 3" dia 45 degrees Bend PVC (11) 2" dia Elbow PVC (12) 2" dia 45 degrees Bend PVC (12) 2" dia 45 degrees Bend PVC (13) 1/2" dia Elbow GI (14) 4" dia 2" dia WYE PVC (15) 3/4" dia TEE GI (16) 1/2" dia TEE GI (17) 4" dia x 2" dia TEE PVC (18) 4" dia Clean Out PVC (18) 4" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (10) 3" dia x 2" dia Elbow Reducer PVC (10) 3" dia x 2" dia Elbow Reducer PVC (10) 4" dia x 2" dia Elbow Reducer PVC (10) 4" dia x 2" dia WYE PVC (10) 5" dia x 2" dia WYE PVC (10) 6" dia x 2" dia wye pvc. 5 dia wye pvc. 5 dia wye pvc. 5 dia wye pvc. 5 dia wye pvc. 5 dia wye pvc. 5 dia w		1	pcs.	213	213			
(10) 3" dia 45 degrees Bend PVC		1	pcs.	38	38			
(11) 2" dia Elbow PVC (12) 2" dia 45 degrees Bend PVC (13) 1/2" dia Elbow GI (13) 1/2" dia Elbow GI (14) 4" dia 3" dia WYE PVC (14) 4" dia 3" dia WYE PVC (15) 3/4" dia TEE GI (16) 1/2" dia TEE GI (17) 4" dia x 2" dia TEE PVC (18) 4" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (10) 3 pcs. (13) 4" dia x 2" dia Elbow Reducer PVC (10) 3" dia x 2" dia Elbow Reducer PVC (11) 3" dia x 2" dia WYE PVC (12) 3" dia x 2" dia WYE PVC (13) 2" dia V2" dia WYE PVC (14) 4" dia x 2" dia WYE PVC (15) 4" dia x 2" dia WYE PVC (16) 4" dia x 2" dia WYE PVC (17) 4" dia x 2" dia WYE PVC (18) 4" dia x 2" dia WYE PVC (18) 4" dia x 2" dia WYE PVC (18) 4" dia x 2" dia WYE PVC (18) 4" dia x 2" dia WYE PVC (19) 5" dia Clean Out PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (19) 6" dia x 2" dia WYE PVC (20) 6" dia x 2" dia dia dia dia dia dia dia dia dia dia	(9) 3" dia Elbow PVC	10	pcs.	70	700			
(12) 2" dia 45 degrees Bend PVC (13) 1/2" dia Elbow Gl (14) 4" dia 3" dia WYE PVC (15) 3/4" dia TEE Gl (16) 1/2" dia TEE Gl (16) 1/2" dia TEE Gl (17) 4" dia x 2" dia TEE PVC (18) 4" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (20) Faucet (21) 3" dia x 2" dia Elbow Reducer PVC (22) 3" dia x 2" dia WYE PVC (23) 2" dia x 2" dia WYE PVC (24) PVC Cement (25) 4" dia x 2" dia WYE PVC (26) Gate Valve 1/2" dia (27) Gate Valve 1/2" dia (29) 3/4"dia x 1/2" dia Elbow Reducer Gl Sub-Total of H-1 (2 Labor (30% of H-1) I. Painting 1. Materials (1) Acrylic, Semi Gloss (2) Concrete Sealer (3) Sand Paper (Assorted) (5) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of 1-1 (2) Labor (30% of I-1) Sub-Total of 1-1 (2) Labor (30% of I-1) Sub-Total of 1-1 (2) Labor (30% of I-1) Sub-Total of 1-1 (2) Labor (30% of I-1) Sub-Total of 1-1 (2) Labor (30% of I-1) Sub-Total of I-1 (3) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of 1-1 (2) Labor (30% of I-1) Sub-Total of I-1 (2) Labor (30% of I-1) Sub-Total of I-1 (2) Labor (30% of I-1) Sub-Total of I-1 (3) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of I-1 (2) Labor (30% of I-1) Sub-Total of I-1 (2) Labor (30% of I-1) Sub-Total of I-1 (3) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of I-1 (2) Labor (30% of I-1) Sub-Total of I-1 (3) Sand Paper (Assorted) (4) Enamel, QDE (5) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of I-1 (2) Labor (30% of I-1) Sub-Total of I-1 (3) Sand Paper (Assorted) (4) Enamel, QDE (5) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of I-1 (2) Labor (30% of I-1) Sub-Total of I-1 (3) Roof Paint (green, ready-mix) Sub-Total of I-1 (4) Enamel, QDE (5) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of I-1 (4) Enamel, QDE (5) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of I-1 (4) Enamel, QDE (5) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of I-1 (2) Enamel, QDE (3) Pes. (4) Pes. (4) Pes. (5) Pes. (5) Pes. (5) Pes	(10) 3" dia 45 degrees Bend PVC	2	pcs.	85	170			
(13) 1/2" dia Elbow GI (14) 4" dia 3" dia WYE PVC (14) 4" dia 7" dia WYE PVC (15) 3/4" dia TEE GI (17) 4" dia x 2" dia TEE PVC (16) 1/2" dia TEE GI (17) 4" dia x 2" dia TEE PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (10) 2" dia x 2" dia Elbow Reducer PVC (11) 3" dia x 2" dia Blbow Reducer PVC (12) 3" dia x 2" dia WYE PVC (13) 2" dia x 2" dia WYE PVC (14) PVC Cement (15) 4" dia x 2" dia WYE PVC (16) Gate Valve 1/2" dia (17) 4" dia x 2" dia WYE PVC (18) 4" dia x 2" dia WYE PVC (19) 3/4" dia x 2" dia WYE PVC (20) Gate Valve 1/2" dia (21) 4" dia x 2" dia WYE PVC (22) 3" dia x 2" dia WYE PVC (23) 3/4" dia x 2" dia WYE PVC (24) PVC Cement (25) 4" dia x 2" dia WYE PVC (26) Gate Valve 1/2" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4" dia x 1/2" dia Elbow Reducer GI (29) 3/4" dia x 1/2" dia Elbow Reducer GI (29) 3/4" dia x 1/2" dia Elbow Reducer GI (20) 3/4" dia x 1/2" dia Elbow Reducer GI (20) 3/4" dia x 1/2" dia Elbow Reducer GI (21) 4 gals. (22) Concrete Sealer (23) 4 gals. (24) PVC (25) 4 gals. (25) 4 gals. (26) Paint Thinner (27) Tinting Color (28) Sand Paper (Assorted) (29) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Sub-Total of I-1 (20) Labor (30% of I-1)	(11) 2" dia Elbow PVC	6	pcs.	53	318			
(14) 4" dia 3" dia WYE PVC (15) 3/4" dia TEE GI (16) 1/2" dia TEE GI (16) 1/2" dia TEE GI (17) 4" dia x 2" dia TEE PVC (18) 4" dia Clean Out PVC (18) 4" dia Clean Out PVC (19) 2" dia Clean Out PVC (10) Faucet (19) 2" dia Clean Out PVC (10) Faucet (10) 3" dia x 2" dia Elbow Reducer PVC (11) 3" dia x 2" dia Elbow Reducer PVC (12) 3" dia x 2" dia WYE PVC (13) " dia x 2" dia WYE PVC (14) PVC Cement (15) 4" dia x 2" dia WYE PVC (16) Gate Valve 3/4" dia (17) Gate Valve 3/4" dia (18) Water Meter 3/4" dia (19) 3/4" dia x 1/2" dia Elbow Reducer GI (19) 3/4" dia x 1/2" dia Elbow Reducer GI (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (17) Total of I-1 (17) Sub-Total of I-1 (17) Total of I-1 (18) Pes. (19) Miscellaneous (10) Roof Paint (green, ready-mix) (10) Ro	(12) 2" dia 45 degrees Bend PVC	2	pcs.	68	136			
(15) 3/4" dia TEE GI (16) 1/2" dia TEE GI (17) 4" dia x 2" dia TEB PVC (18) 4" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (10) 4" dia x 2" dia Elbow Reducer PVC (10) 5 ac x 2" dia Elbow Reducer PVC (11) 6 ac x 2" dia WYE PVC (12) 3" dia x 2" dia WYE PVC (13) 6 ac x 2" dia WYE PVC (14) 7 bc x 2" dia WYE PVC (15) 4" dia x 2" dia WYE PVC (16) 6 ac x 2" dia WYE PVC (17) 6 ac x 2" dia WYE PVC (18) 6 ac x 2" dia WYE PVC (19) 7 bc x 2 bc x 3 bc x 47 bc	(13) 1/2" dia Elbow GI	5	pcs.	40	200			
(15) 3/4" dia TEE GI (16) 1/2" dia TEE GI (17) 4" dia x 2" dia TEB PVC (18) 4" dia Clean Out PVC (18) 4" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (10) Faucet (10) 3" dia x 2" dia Elbow Reducer PVC (11) 3" dia x 2" dia Blbow Reducer PVC (12) 3" dia x 2" dia WYE PVC (13) 3 pcs. (13) 2" dia x 2" dia WYE PVC (14) PVC Cement (15) 4" dia x 2" dia WYE PVC (15) 4" dia x 2" dia WYE PVC (16) Gate Valve 3/4" dia (17) Gate Valve 1/2" dia (17) Gate Valve 1/2" dia (18) Water Meter 3/4" dia (19) 3/4" dia x 1/2" dia Elbow Reducer GI Sub-Total of H-1 (10) Sub-Total of H-1 (11) Acrylic, Semi Gloss (12) Concrete Sealer (13) Acri Color: Wood (14) Enamel, QDE (15) Wood Putty (15) Wood Putty (16) Paint Thinner (17) Tinting Color (18) Sand Paper (Assorted) (19) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of 1-1 (2) Labor (30% of 1-1) (2) Labor (30% of 1-1) (3) Sub-Total of 1-1 (4) Gate Valve 3/4 (5) Poss. (6) Paint Thinner (7) Sub-Total of 1-1 (8) Sand Paper (Assorted) (19) Miscellaneous (10) Roof Paint (green, ready-mix) (25) Sub-Total of 1-1 (26) Concrete Sealer (10) Roof Paint (green, ready-mix) (27) Sub-Total of 1-1 (28) Water Meter 3/4 (29) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Sub-Total of 1-1 (20) Concrete Sealer (21) Foss. (22) Foss. (23) Foss. (24) Poss. (25) Foss. (26) Foss. (27) Foss. (28) Foss. (29) Foss. (20) Foss. (20) Foss. (20) Foss. (21) Foss. (21) Foss. (21) Foss. (21) Foss. (21) Foss. (21) Foss. (22) Foss. (23) Foss. (24) Foss. (25) Foss. (26) Foss. (27) Foss. (28) Foss. (29) Foss. (20) Foss. (20) Foss. (20) Foss. (21) Foss. (21) Foss. (21) Foss. (21) Foss. (20) Foss. (21) Foss. (21) Foss. (21) Foss. (21) Foss. (22) Foss. (23) Foss. (24) Foss. (25) Foss. (26) Foss. (27) Foss. (29) Foss. (20) Foss. (20) Foss. (20) Foss. (20) Foss. (20) Foss. (21) Foss. (21) Foss. (21) Foss. (21) Foss. (21) Foss. (22) Foss. (23) Foss. (24) Foss. (25) Foss. (26) Foss. (27) Foss. (28) Foss. (29) Foss. (20) Foss. (20) Foss. (20) Foss. (21) Foss. (21) Foss. (21) Foss. (21) Foss.	(14) 4" dia 3" dia WYE PVC	8	pcs.	52	416			
(17) 4" dia x 2" dia TEE PVC (18) 4" dia Clean Out PVC (19) 2" dia Clean Out PVC (19) 2" dia Clean Out PVC (10) 2" dia Clean Out PVC (10) 5 pcs. (20) Faucet (20) Faucet (21) 3" dia x 2" dia Elbow Reducer PVC (22) 3" dia x 2" dia WYE PVC (23) 2" dia x 2" dia WYE PVC (24) PVC Cement (25) 4" dia x 2" dia WYE PVC (26) Gate Valve 3/4" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4" dia x 1/2" dia Elbow Reducer GI Sub-Total of H-1 (28) Water Meter 3/4" dia (29) 3/4" dia x 1/2" dia Elbow Reducer GI Sub-Total of H-1 (28) Water Meter 3/4" dia (29) 3/4" dia x 1/2" dia Elbow Reducer GI Sub-Total of H-1 (28) Water Meter 3/4" dia (29) 3/4" dia x 1/2" dia Elbow Reducer GI Sub-Total of H-1 (20) Gate Valve 1/2" dia Elbow Reducer GI Sub-Total of H-1 (21) Acrylic, Semi Gloss (22) Concrete Sealer (33) Acri Color: Wood (44) Enamel, QDE (55) Wood Putty (56) Paint Thinner (77) Tinting Color (88) Sand Paper (Assorted) (19) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of I-1 (25) Sub-Total of I-1 (26) Paint (green, ready-mix) (27) Sub-Total of I-1 (28) Sub-Total of I-1 (29) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Gate Valve 1/2" dia Ppcs. (10) Roof Paint (green, ready-mix) (20) Sub-Total of I-1 (20) Sub-Total of I-1 (20) Roof Paint (green, ready-mix) (20) Sub-Total of I-1 (21) Sub-Total of I-1 (22) Sub-Total of I-1 (21) Sub-Total of I-1 (22) Sub-Total of I-1 (21) Sub-Total of I-1 (22) S	(15) 3/4" dia TEE GI	7	pes.	70	490			
(17) 4" dia x 2" dia TEE PVC (18) 4" dia Clean Out PVC (19) 2" dia Clean Out PVC 1 pcs. 29 (20) Faucet (10) pcs. 59 (21) 3" dia x 2" dia Elbow Reducer PVC (21) 3" dia x 2" dia WYE PVC (22) 3" dia x 2" dia WYE PVC (23) pcs. 29 (23) 2" dia x 2" dia WYE PVC (24) PVC Cement (25) 4" dia x 2" dia WYE PVC (26) Gate Valve 3/4" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4" dia x 1/2" dia Elbow Reducer GI Sub-Total of H-1 2. Labor (30% of H-1) Sub-Total of H-1 1. Painting (1) Acrylic, Semi Gloss (2) Concrete Sealer (3) Acri Color: Wood (4) Enamel, QDE (5) Wood Putty (6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (25) Sub-Total of 1-1 (25) Sub-Total of 1-1 (26) pcs. (27) Gate Valve 1/2 (28) Water Meter 3/4" dia (29) 3/4" dia x 1/2" dia Elbow Reducer GI (20) Gate Valve 1/2" dia (21) pcs. (21) pcs. (21) pcs. (21) pcs. (22) pcs. (24) pvc Cement (25) 4" dia x 2" dia WYE PVC (26) pcs. (3) pcs. (40) pcs. (41) pcs. (41) pcs. (42) pcs. (43) pcs. (44) gals. (45) gals. (46) paint Thinner (47) Tinting Color (48) Sand Paper (Assorted) (59) Miscellaneous (10) Roof Paint (green, ready-mix) (20) Sub-Total of 1-1 (21) pcs. (22) 20 (23) pcs. (24) pvc. (25) pcs. (26) gals. (27) pcs. (28) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (20) pcs. (20) pcs. (20) pcs. (20) pcs. (21) pcs. (21) pcs. (21) pcs. (21) pcs. (22) pcs. (23) pcs. (24) pcs. (25) pcs. (26) pcs. (27) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (29) pcs. (20) p	(16) 1/2" dia TEE GI	5	pcs.	55	275			
(19) 2" dia Clean Out PVC (20) Faucet (20) Faucet (21) 3" dia x 2" dia Elbow Reducer PVC (21) 3" dia x 2" dia WYE PVC (22) 3" dia x 2" dia WYE PVC (23) 2" dia x 2" dia WYE PVC (24) PVC Cement (25) 4" dia x 2" dia WYE PVC (26) Gate Valve 3/4" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4"dia x1/2"dia Elbow Reducer Gl Sub-Total of H-1 2. Labor (30% of H-1) Sub-Total of H-1 1. Materials (1) Acrylic, Semi Gloss (2) Concrete Sealer (3) Acri Color: Wood (4) Enamel, QDE (5) Wood Putty (6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (10) Roof Paint (green, ready-mix) Sub-Total of 1-1 Sub-Total of 1-1	(17) 4" dia x 2" dia TEE PVC	6	pcs.	36	216			
(20) Faucet (21) 3" dia x 2" dia Elbow Reducer PVC (21) 3" dia x 2" dia WYE PVC (22) 3" dia x 2" dia WYE PVC (23) 2" dia x 2" dia WYE PVC (24) PVC Cement (25) 4" dia x 2" dia WYE PVC (26) Gate Valve 3/4" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4"dia x 1/2"dia Elbow Reducer Gl Sub-Total of H-1 2. Labor (30% of H-1) Sub-Total of H 1. Painting 1. Materials (1) Acrylic, Semi Gloss (2) Concrete Sealer (3) Acri Color: Wood (4) Enamel, QDE (5) Wood Putty (6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (9) Miscellaneous (10) Roof Paint (green, ready-mix) (21) Sub-Total of 1-1 (22) Sub-Total of 1-1 (23) Face (24) PVC Cement (1 can (142) (14) Can (142) (14) Can (142) (15) Can (142) (16) Pcs. (17) Spes. (18) Spes. (19) Spes. (10) Roof Paint (green, ready-mix) (20) Gate Valve PVC (21) Can (22) pcs. (23) pcs. (24) PVC Cement (25) 4" dia X 2" dia WYE PVC (26) Gate Valve PVC (27) Spes. (28) Pcs. (29) pcs. (47) Spes. (47) Spes. (48) Spes. (49) Miscellaneous (40) Miscellaneous (40) Miscellaneous (41) Roof Paint (green, ready-mix) (50) Sub-Total of 1-1 (51) (52) Sub-Total of 1-1 (53) Pcs. (54) Spes. (55) Sub-Total of 1-1 (54) Pcs. (55) Sub-Total of 1-1 (55) Spes. (56) Sub-Total of 1-1 (57) Tinting Color (67) Sub-Total of 1-1 (77) Tinting Color (78) Miscellaneous (19) Miscellaneous (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Sub-Total of 1-1 (10) Spes. (10) Roof I-1)	(18) 4" dia Clean Out PVC	3	pes.	41	123			
(20) Faucet (21) 3" dia x 2" dia Elbow Reducer PVC (21) 3" dia x 2" dia WYE PVC (22) 3" dia x 2" dia WYE PVC (23) 2" dia x 2" dia WYE PVC (24) PVC Cement (25) 4" dia x 2" dia WYE PVC (26) Gate Valve 3/4" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4"dia x 1/2"dia Elbow Reducer Gl Sub-Total of H-1 2. Labor (30% of H-1) Sub-Total of H 1. Painting 1. Materials (1) Acrylic, Semi Gloss (2) Concrete Sealer (3) Acri Color: Wood (4) Enamel, QDE (5) Wood Putty (6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (9) Miscellaneous (10) Roof Paint (green, ready-mix) (25) Sub-Total of 1-1 (22) Sub-Total of 1-1 (23) Face (24) PVC Cement (1 can 142 (1 can 142 (1 can 142 (1 can 142 (1 can 142 (1 can 142 (1 can 142 (1 can 142 (1 pcs. 142	(19) 2" dia Clean Out PVC	1	pcs.	29	29			
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(23) 2" dia x 2" dia WYE PVC (24) PVC Cement (25) 4" dia x 2" dia WYE PVC (26) Gate Valve 3/4" dia (27) Gate Valve 1/2" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4"dia x1/2"dia Elbow Reducer GI Sub-Total of H-1 2. Labor (30% of H-1) Sub-Total of H 1. Acrylic, Semi Gloss (2) Concrete Sealer (3) Acri Color: Wood (4) Enamel, QDE (5) Wood Putty (6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (10) Roof Paint (green, ready-mix) Sub-Total of 1-1 Sub-Total of 1-1 Sub-Total of 1-1 Sub-Total of H Sub-Total of I-1 Sub-Total of I-1 Sub-Total of I-1 Sub-Total of I-1 Sub-Total of I-1 Sub-Total of I-1 Sub-Total of I-1 Sub-Total of I-1 Sub-Total of I-1 Sub-Total of I-1 Sub-Total of I-1	` '	3		29				
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(26) Gate Valve 3/4" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4" dia x1/2" dia Elbow Reducer Gl Sub-Total of H-1 2. Labor (30% of H-1) Sub-Total of H 1. Acrylic, Semi Gloss (2) Concrete Sealer (3) Acri Color: Wood (4) Enamel, QDE (5) Wood Putty (6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (10) Roof Paint (green, ready-mix) Sub-Total of 1-1 2. Labor (30% of 1-1) 1. pes.	(24) PVC Cement	1	can	142	142			
(26) Gate Valve 3/4" dia (27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4" dia x1/2" dia Elbow Reducer Gl Sub-Total of H-1 2. Labor (30% of H-1) Sub-Total of H 1. Acrylic, Semi Gloss (2) Concrete Sealer (3) Acri Color: Wood (4) Enamel, QDE (5) Wood Putty (6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (10) Roof Paint (green, ready-mix) Sub-Total of 1-1 2. Labor (30% of 1-1) 1. pes.	(25) 4" dia x 2" dia WYE PVC	2	pcs.	47	94			
(27) Gate Valve 1/2" dia (28) Water Meter 3/4" dia (29) 3/4"dia x1/2"dia Elbow Reducer GI Sub-Total of H-1 2. Labor (30% of H-1) Sub-Total of H 1. Painting 1. Materials (1) Acrylic, Semi Gloss (2) Concrete Sealer (3) Acri Color: Wood (4) Enamel, QDE (5) Wood Putty (6) Paint Thinner (7) Tinting Color (7) Tinting Color (8) Sand Paper (Assorted) (10) Roof Paint (green, ready-mix) (10) Roof Paint (green, ready-mix) (10) Sub-Total of I-1 (11) pcs. (12) pcs. (13) pcs. (14) pcs. (15) pcs. (16) pcs. (17) pcs. (18) pcs. (19) Miscellaneous (10) Roof Paint (green, ready-mix) (10) Sub-Total of I-1 (10) Roof Paint (green, ready-mix) (10) Sub-Total of I-1 (11) pcs. (11) pcs. (12) pcs. (13) pcs. (14) pcs. (15) pcs. (16) pcs. (17) pcs. (18) pcs. (18) pcs. (19) pcs. (10) pcs. (10) pcs. (10) pcs. (11) pcs. (11) pcs. (11) pcs. (12) pcs. (13) pcs. (14) pcs. (15) pcs. (16) pcs. (17) pcs. (18) pcs. (18) pcs. (19) pcs. (10) pcs. (10) pcs. (10) pcs. (11) pcs. (11) pcs. (11) pcs. (12) pcs. (13) pcs. (14) pcs. (15) pcs. (16) pcs. (17) pcs. (18) pcs. (18) pcs. (19) pcs. (10) pcs. (10) pcs. (10) pcs. (11) pcs. (11) pcs. (11) pcs. (12) pcs. (12) pcs. (13) pcs. (14) pcs. (15) pcs. (16) pcs. (17) pcs. (18) pcs. (19) pcs. (19) pcs. (10) pcs. (10) pcs. (10) pcs. (10) pcs. (11) pcs. (11) pcs. (10) pcs. (11) pcs. (11) pcs. (10) pcs. (11) pcs. (11) pcs. (12) pcs. (13) pcs. (14) pcs. (15) pcs. (15) pcs. (16) pcs. (17	• •	1		142	142			
(28) Water Meter 3/4" dia 1 pcs. 1,488 1,48 (29) 3/4"dia x1/2"dia Elbow Reducer Gl 1 pcs. 21 2 Sub-Total of H-1 17,18 17,18 22,33 Sub-Total of H-1 22,33 Sub-Total of H-1 22,33 I. Painting 1. Materials 8 gals. 295 2,30 (2) Concrete Sealer 4 gals. 233 93 (3) Acri Color: Wood 4 gals. 200 80 (4) Enamel, QDE 6 gals. 310 1,86 (5) Wood Putty 1 gals. 342 34 (6) Paint Thinner 1 gals. 67 6 (7) Tinting Color 4 pint 45 18 (8) Sand Paper (Assorted) 15 pcs. 8 12 (9) Miscellaneous 15 pcs. 8 12 (10) Roof Paint (green, ready-mix) 2 gals. 319 61 Sub-Total of I-1 2,55	(27) Gate Valve 1/2" dia	1	pcs.	112	112			
(29) 3/4"dia x1/2"dia Elbow Reducer GI Sub-Total of H-1 2. Labor (30% of H-1) Sub-Total of H 1. Materials (1) Acrylic, Semi Gloss (2) Concrete Sealer (3) Acri Color: Wood (4) Enamel, QDE (5) Wood Putty (6) Paint Thinner (7) Tinting Color (7) Tinting Color (8) Sand Paper (Assorted) (9) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of I-1 2. Labor (30% of I-1) Sub-Total of I-1 Sub-Total of B-1 1 pcs. 21 1 pcs. 21 1 pcs. 21 17,18 22,33 17,18 22,33 23,30 24, gals. 295 2,36 295 2,36 295 2,36 295 2,36 295 2,36 295 2,36 30 80 80 80 80 80 80 80 80 80		1	1 - :	1,488	1,488			
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Sub-Total of H Sub-Total of H Sub-Total of H Sub-Total of H Sub-Total of H Sub-Total of H Sub-Total of H Sub-Total of H Sub-Total of H Sub-Total of H Sub-Total of H Sub-Total of H Sub-Total of I-1			-		17,181			
Sub-Total of H 22,33 1. Painting	2. Labor (30% of H-1)				5,154			
1. Painting 1. Materials (1) Acrylic, Semi Gloss 8 gals. 295 2,36 (2) Concrete Sealer 4 gals. 233 93 (3) Acri Color: Wood 4 gals. 200 86 (4) Enamel, QDE 6 gals. 310 1,86 (5) Wood Putty 1 gals. 342 34 (6) Paint Thinner 1 gals. 67 6 (7) Tinting Color 4 pint 45 18 (8) Sand Paper (Assorted) 15 pcs. 8 12 (9) Miscellaneous LS 1,20 (10) Roof Paint (green, ready-mix) 2 gals. 319 63 Sub-Total of 1-1 3,49 63 2. Labor (30% of I-1) 2,55 2,55					22,335			
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(2) Concrete Sealer 4 gals. 233 93 (3) Acri Color: Wood 4 gals. 200 80 (4) Enamel, QDE 6 gals. 310 1,80 (5) Wood Putty 1 gals. 342 34 (6) Paint Thinner 1 gals. 67 6 (7) Tinting Color 4 pint 45 18 (8) Sand Paper (Assorted) 15 pcs. 8 12 (9) Miscellaneous LS 1,20 (10) Roof Paint (green, ready-mix) 2 gals. 319 63 Sub-Total of 1-1 2,55 8 319 63	(1) Acrylic, Semi Gloss	8	gals.	295	2,360			
(3) Aeri Color: Wood (4) Enamel, QDE (5) Wood Putty (6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (9) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of 1-1 2. Labor (30% of I-1) 4 gals. 200 80 81 81 81 81 81 81 82 81 81 81 81 81 81 81 81 81 81 81 81 81	• • •	4	-	233	932			
(4) Enamel, QDE 6 gals. 310 1,86 (5) Wood Putty 1 gals. 342 34 (6) Paint Thinner 1 gals. 67 6 (7) Tinting Color 4 pint 45 18 (8) Sand Paper (Assorted) 15 pcs. 8 12 (9) Miscellaneous LS 1,20 (10) Roof Paint (green, ready-mix) 2 gals. 319 63 Sub-Total of 1-1 2,55 3,49 3,49 2,55 2,55 3,49 3,49		4	-	200	800			
(5) Wood Putty (6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (9) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of I-1 2. Labor (30% of I-1) 1 gals. 342 342 343 342 342 342 342 342 342 342		6	. —	310	1,860			
(6) Paint Thinner (7) Tinting Color (8) Sand Paper (Assorted) (9) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of 1-1 2. Labor (30% of I-1) 1 gals. 67 67 68 12 18 18 18 18 18 18 18 18 18 18 18 18 18		1		342	342			
(7) Tinting Color 4 pint 45 18 (8) Sand Paper (Assorted) 15 pcs. 8 12 (9) Miscellaneous (10) Roof Paint (green, ready-mix) 2 gals. 319 63 8,49 2. Labor (30% of I-1) 2,55		1	-	67	67			
(8) Sand Paper (Assorted) (9) Miscellaneous (10) Roof Paint (green, ready-mix) Sub-Total of l-1 2. Labor (30% of I-1) 15 pcs. 8 12 1,20 2 gals. 319 63 8,49 2,55		4	_	45	180			
(9) Miscellaneous		15			120			
(10) Roof Paint (green, ready-mix) 2 gals. 319 62 Sub-Total of 1-1 8,49 2. Labor (30% of 1-1) 2,55					1,200			
Sub-Total of I-1 8,49 2. Labor (30% of I-1) 2,50		2		319	638			
2. Labor (30% of I-1) 2,55					8,499			
	<u>.</u>			÷ , , , ,	2,550			
	Sub-Total of I				11,049			

Table 10.2.17 Unit Cost of Public Toilet

Sheet 4 of 5			(Cost: Peso)

Description	Q'ty	Unit	Unit Cost	Amount
J. Electrical Work	X 9	Ont	Onit Cost	Amount
1. Materials				
(1) 40 Watts Fluorescent Lamp	2	sets	289	578
(2) Elect. Wire TW #12	24		7	
(3) Elect. Ville 1 W #12	4	m	88	168
• •	4	pcs.		352
(4) Entrance Cap. 1/2" dia	1	pc.	32	32
(5) Switch Outlet, Flush Type	2	pcs.	44	88
(6) Utility Box 2" x 3"	2	pcs.	12	24
(7) Porcelain Receptacle 2" dia	2	pcs.	7	14
(8) Safety Switch 60A, 250V	1	set	555	555
(9) Electrical Tape	1	roll	. 25	25
Sub-Total of J-1				1,836
2. Labor (30% of J-1)				551
Sub-Total of J				2,387
K. Hardware				
1. Materials				
(1) 3" x 3" Butt Hinges (Loose Pin)	10	pes.	20	200
(2) 4" x 4" Butt Hinges (Loose Pin)	12	pcs.	36	432
(3) Door Lockset (Schlage US)	3	pcs.	650	1,950
(4) Barrel Bolt (4")	5	pcs.	45	225
(5) Cabinet Pull (4")	5	pcs.	7	35
(6) Water Storage Cover				•
Checkered Plate 1/4" thick				
1.44x0.633 w/ L bar & flat bar	1	set	1,116	1,116
(7) 0.645x0.633 w/ L bar & flat bar	2	set	629	1,258
(8) Padlock	1	pcs.	429	429
Sub-Total of K-1				5,645
2. Labor (30% of K-1)				1,694
Sub-Total of K				7,339
L. Septic Tank and Sewage Basin				
1. Materials			_:	
(1) 4" CHB	180	pcs.	5	900
(2) Cement	18	bags	137	2,466
(3) Sand	1.50	cu.m	359	539
(4) Gravel	1	cu.m	454	454
(5) Rebars: 10mm dia x 6m	29	pcs.	58	1,682
(6) #16 Tire Wire	2	kg.	58	116
(7) Formworks: Coco Lumber				
$2'' \times 3'' \times 10' = 12$ pcs.	60	bf.	11	660
1/4" plywood ord. 4' x 8'	2	pcs.	477	954
C.W.N. (Assorted)	2	kg.	43	86
Sub-Total of L-1				7,857
2. Labor (30% of L-1)				2,357
Sub-Total of L				10,214
M. Concrete Water Tank (Elevated)				
1. Earth Work				
(1) Materials				
1) Gravel Fill	1	cu.m	454	454
Sub-Total of M-1 (1)				454

Table 10.2.17 Unit Cost of Public Toilet

(Cost: Peso) Sheet-5

Sheet-5				(Cost: Peso)
Description	Q'ty	Unit	Unit Cost	Amount
(2) Labor				-
1) Excavation	14.70	cu.m	140	2,058
2) Backfill	13.08	cu.m	127	1,661
3) Gravel Fill	1	cu.m	166	166
Sub-Total of M-1 (2)				3,885
Sub-Total of M-1				4,339
2. Materials				
(1) Cement	62	bags	137	8,494
(2) Sand	4.50	cu.m	359	1,616
(3) Gravel	8	cu.m	454	3,632
(4) Rebars: 12mm dia x 6m	160	pes.	79	12,640
(5) #16 Tie Wire	4	kg.	58	232
(6) Formworks:				
1/4" plywood	12	pcs.	477	5,724
$2'' \times 3'' \times 16' = 60$ pcs.	480	bf.	9	. 4,320
(7) C.W.N. (Assorted)	5	kg.	43	215
Sub-Total of M-2				49,890
3. Labor (30% of M-2)				14,967
Sub-Total of M				69,196
N. Freight Cost (8% of Materials for A - M				16,234
excluding sand and gravel)				
O. Indirect Cost				
Profit (10% of A - M)				31,546
VAT (10% of Profit & Labor)				10,413
Sub-Total of O				41,959
Total of Construction Cost				357,424
(A to O)				
P. Estimated Government Expenses				
1. Preliminary & Detailed Engineering Cost		LS		2,400
2. Construction Supervision		LS		1,800
Sub-Total of P				4,200
GRAND TOTAL				361,624
			SAY	361,600

Note: LS - Lump Sum
Source: DOH standard price in 1993
Unit Cost: Adjusted to 1998 Price Level

Table 10.2.18. Cost for New Laboratory

Item	Unit	Unit Cost	Q'ty	Amount
1. Building		1 2 1		
New Building	m²	15,000	57	855,000
2. Instruments				72.72
Turbidity meter	set	37,500	1	37,500
Color meter	set	10,500	1	10,500
pH/Residual chlorine checker	set	16,000	1	16,000
Incubator	set	105,000	1	105,000
Refrigerator	set	26,800	2	53,600
Sterilizer	set	54,000	1	54,000
Water quality testing kits	set	320,000	1	320,000
Electric stove	set	1,100	1	1,100
Range hood	set	11,000	1	11,000
Sub-total				608,700
3. Accessories				
Sink	LS			
Working table	LS			
Shelf	LS			
Office desk	LS			
Chair	LS			
Sub-total				65,000
4. Glassware/Chemicals				
Glassware/Chemicals	LS			110,000
Total				1,638,700

Note: LS - Lump Sum

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

Table 10.2.19 Cost for Upgrading Laboratory

(Cost: Peso)

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

Note: LS - Lump Sum

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

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 \$\phi250\$ 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 \$\phi 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 winch

Unit 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 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.

10.3 Cost of Required Facilities and Equipment

10.3.1 Cost of Required Facilities

)

Table 10.3.1 Construction Cost of Water Supply Facilities Required for Phase 1 (2005)

	Urban				Rur	al Water St	ipply				nit: P 1,00
Name of	Water			?	ien Syster	n			Level		Grand
Municipality/City	Supply					el I			Rehabili-	Total	Total
• • •	Level III	Level II		Deep Well		Shallow Well	Spring	Subtotal	tation	••••	10121
Ajuy	+		40 m	80 m	120 m	1 1160	Dev.	! 			<u> </u>
Alimodian	4,742	8,189									
Anilao	1,241	8,189	()(1)				730			8,189	12,93
Badiangan ·	1,241		6,341				738	7,079	133	7,212	8,45
Balasan	2,627		5,595								
Banate	2,027		7,833			253	738		118	6,703	9,33
Barotac Nuevo	- 		7,833			84	738	8,655	165	3,820	8,82
Barotac Niejo			2 2 2 2 2					L	l		
Batad	2,726		2,238			1,855		4.093	47	4,140	6,86
Bingawan	+		1,865	4060		759	738	3,361	39	3,401	3,40
	1 33330			4,959				4,959	71	5,030	
Cabatuan Calinog	22,320			15.050			·	l	<u>-</u>		22,32
	3,661	4001		15,979		1,012	1,475	18,466	227	18,693	22,35
Carles	1,811	4,901	6,714			927	1,475	9,117	141	14,158	15,96
Concepcion	3,335		1,119			1,855	738	3,711	24	3,735	7,07
Dingle	 										
Dueñas	ļ		8,206					8,206	172	8,378	8,37
Dumangas	1,236		17,158					17,158	361	17,519	18,75
Estancia	5,969		1,865			1,686	738	4,289	39	4,328	10,29
Guimbal	·		7,833					7,833	165	7,998	7,99
gbaras	3,810		5,222			422	738	6,381	110	6,491	10,30
laniuay	5,884			10,469		1,602	1,475	13,546	149	13,695	19,57
Lambunao	3,361			15,979		1,517	2,213	19,709	227	19,937	23,29
Leganes	4,634	4,248								4,248	8,88
Lemery											
Leon	3,558	· ·	6,714			1,433	1,475	9,622	141	9,763	13,32
Maasin	2,063			5,510		843	738	7,091	78	7,169	9,23.
Miagao	5,236		10,071			927	1,475	12,474	212	12,685	17,92
Mina	1,683			7,163			1.	7,163	102	7,265	8,94
New Lucena	1,669										1.669
Oton .	33,383										33,38
Passi City	 1										
Pavia											
Pototan	I		14,174					14,174	298	14,472	14,47
San Dionisio	3,224	1,198	2,984			674	738	4,396	63	5,656	8,88
San Enrique	1,525			9,367		337	738	10,442	133	10,575	12,100
San Joaquin	3,295	2,588	10,817			253	1,475	12,545	227	15,360	18,65
San Miguel											
San Rafael	1		1,492			422		1,914	31	1,945	1,94
Santa Barbara											
Зага	1		350			1					
Tigbauan	6,339		14,547					14,547	306	14,853	21,19
Tubungan	1,193		2,984			843	738	4,565	63	4,627	5,82
arraga	2,565	1	5,968					5,968	125	6,093	8,65
Provincial Total	133,090	21,123	141,740	69,426	1	17,703	19,178	248,047	3,967	273,137	406,22

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

	·				13 3 33/-4	C			Ur I	it: P 1.000
	Urban -		•	Nam 6	Rural Wat	er Supply		I		1
s:	Water -				System vel 1			Level I		Grand
Name of Municipality/City	Supply -		eep Well	L.C	Shallow	Spring		Rehabili-	Total	Total
	Level III	40 m	80 m	120 m	Well	Dev.	Subtotal	tation		
Ajuy	2,173	29,840			1,686		31,526	627	32,153	34,326
Alimodian	16,600	11,190			2,445		13,635	235	13,870	30,470
Anilao	3,483	30,213			337	738	31,288	635	31,923	35,406
Badiangan	7,262		8,816				8,816	125	8,941	16,204
Balasan	15,313	12,309	· ·		674	738	13,721	259	13,980	29,292
Banate	8,757	30,586			337	738	31,661	643	32,304	41,060
Barotae Nuevo	9,858	8,579					8,579	180	8,759	18,618
Barotac Viejo	18,683	7,460		*-	6,407		13,867	157	14,024	32,706
Batad	2,647	4,476			2,360	738	7,574	94	7,668	10,315
Bingawan	19,977		21,489		169		21,658	306	21,963	41,940
Cabatuan	135,027	- 1								135,027
Calinog	16,934	t	100,833		6,575	1,475	108,884	1,435	110,318	127,252
Carles	11,374	61,545			9,273	1,475	72,293	1,294	73,587	84,961
Concepcion	18,162	4,476		· · · · · · · · · · · · · · · · · · ·	8,514	738	13,728	94	13,822	31,984
Dingle	21,287	11,563			84		11,647	243	11,890	33,178
Dueñas	18,370	15,666		r	 		15,666		15,995	34,365
Dumangas	2,388	72,362					72,362	1,521	73,883	76,271
Estancia	20,477	9,698			8,767	738	19,203	204	19,407	39,883
Guimbal	20,360	27,229		 -	1		27,229	572	27,801	48.162
lgbaras	18,770	16,412			1,517	738	18,667		19.012	37,782
Janiuay	21.326		6,061	i	927	1,475		86	8,550	
Lamburiao	21,004		83,201		8,430	2,213			95,028	116,032
Leganes	23,292	11,190					11,190		11,425	34,717
l.eniery	16,453	14,547			759		15,306		15,611	32,064
Leon	15,609	22,007			4,889	1,475	28,372		28,834	44,443
Maasin	10,406		14,877	1	2,276	738			18,102	
Miagao	19,436	25,364			2,360	1,475	29,200	533	29,733	
Mina	11,144		24,795				24,799		25,148	
New Lucena	11,463		20,387		T		20,387	290	20,677	
Oton	216,034									216,034
Passi City	5,253		56,753		2,108		58,861		59,668	
Pavia	19,076	25,737					25,737		26,278	
Pototan	43,776	33,943					33,94			
San Dionisio	12,361	13,801			3,035					
San Enrique	9,132		31,958	3	1,180	738				
San Joaquin	16,234	58,561			1,433	1,475				
San Miguel	57,290		6,061				6,06			
San Rafael	17,998	4,476			1,349		5,82	5 94		
Santa Barbara	28,941	36,181		I			36,18			
Sara	17,967	17,531	I	I	1,686	·L	19,21			
Tigbauan	31,302	82,806	I	1			82,80			
Tubungan	8,018	9,325			3,035	73			13,29	
Zarraga	16,497	25,364				L	25,36			
Provincial Total	1,037,914	734,437	375,23	1	82,614	19,17	8 1,211,46	0 20,776	1,232,230	2,270,150

Table 10.3.3 Cost for Sanitation Facilities Required for Phase I (2005)

											24	(200				Š	Unit: P 1,000
				ł	Urban Sanitation	80	ľ		1				Rural Sanitation	nitation			
		ಕ	Household To	Toilets				Total	Tors		Hou	Household Toilets	lets			Total	Total
Name of Municipality/City	Flush	Pour Flush	VIP/Dry	Sub-total of Cons- truction Cost	Sub-total of Public Invest- ment	Public School Toilets	Public Toilets	Construction Cost	Public Invest- ment Cost	Flush	Pour Flush	VIP/Dry	Sub-total of Cons- truction Cost	Sub-total of Public Invest- ment	Public School Toilets	Construction Cost	Public Invest- ment Cost
Ajuy	1,748	202.1	21	3.264	23		1,085	4,582	1,342	12,581	16,412		28.993	256	3.970	32,963	4.226
Alimodian	3,680				0	467	1,085	5.810			5,711		5.711	68	2,102	7,812	2,191
Amilao	828	2,101	128		33		1,085	4,142	1,118	7,199	2	2,229	31,777	349	2,335	34,112	2,684
Badiangan	276	42	114				1,085		1,085	7.314	П		7,314				
Balasan	8151	1,537				467	1,085		1,576	6,969			36,917	467	2.335		2,802
Banate		1,058	426	1,484			1,085					5,588	26,399	325	3.036	29,435	3,360
Barotac Nuevo				1,368		234				9.476		3.415	22,803	155	3,269		3.424
Barotac Viejo	2,553			3,723				5.275		11.155	ı		50.861	619	3,503		4.122
Batad	299			2.738	38		T	3,823	ı	4,301	0000		10.970	2 2		10.970	8
Bringawan	200	575		676.		òg S	680,1	//8/7	7/6"		2	2,038	2.28	**	4	675	ķ
Column	700.77	1		77007				1	1		1000		10000	463	V 00 V	35.935	2 3 44
Control	134	700	22	l	7 5		1536			2	1777	5	27.00	702	2 4	ı	200
Concencion	2.875			1439		467		100.7	1951	10.212	26.170	3.145	10 577	40X	2 802	47 179	3,210
Dinvie						467		1.552							2.569		2.569
Duerlas	2,277	42		2,319	=			3,404		8,487	8,531		17.018	133		17,018	133
Dumangas	å			244			1.085	1,729		18.078	8	5,630	23.807	2	3,970	27,777	3.971
Estancia	1,472	9,447		916,01	147		1,085	12,004	ı	7,038	21,362		28,400	333		28.400	333
Gumbal	3.887	296	121	4,304	8	10/	1.085	680'9		138	l		138		2.335		2.335
Sparas	943			943		467		2,495		7,889	6,035	2,442	16,366	94	2,102		2,196
Janiuay	1,633			1,633		934		3,652							4,904	4,904	4,904
Lambungo	1,955			1,955		467		4.592		2,852			2,852		5,604		5,604
Leganes		1,354		1354	7		_	3,139	1,806						- 64	1	1,401
Lemeny		2,143		2.143			1,085	3,462			696'6		0966	156	2.102		2,257
Con	2,599	85		2,684		467		4.597		3.8	11,210	4.097	29.267	175	4.437	33,704	4.611
Maasin						234		1,318		1,702			1,702	1	2,569	4,271	2,569
Magao	3,1/4	601		3,1/4			2,170	4	0/17	13,847	۱	1631	18,484	4	363	40.0	3
New Linears	702			806			380 1	1 083		2,002	1,471	2/2.1			104	104	1.05
Ötöi	43.263		İ.	4		6.071	L	56.647			T						
Passi City	5,359		582	l			3.616	11.027	1	18.607	36,082	5,779	60,468	563	5.838	66,306	l
Pavia		5,513			86			7.532							2,102		
Pototan	4.370					1.635		7.813			7.882		7.882	123	3,736	П	3.859
San Dionisio	2.898	7	185	626'01	123	10/	1,085	12.764	806'1	7.420			28.748	333	2.802		3.135
San Enrique								1.522			23,575		23.575		2,102	25.677	2,469
San Joaquin	1.932	1,706	249		27	467		5.800		14,674		4.615	38.789		3.970		4.274
San Miguel	8,211.						1,085	10.930							701		701
San Rafael		3.652	902	4.554		467	1,085	6,105			9,955.	2,080	12,035	1551	1,168	13.202	1.323
Santa Barbara		2,284		2.284		İ		5.900			1		6.486	0		0,486	ē
Sara	2.068	١		ı	İ	467		7.693		13.386	23,660		37.046	369	3.970	41.015	4,139
Tigoanan	2,392		261	3.743	12		:085	5.52×		1,753	1	4.757	19,048	\$	3.269	22.317	3,300
Inbungan		049					1.085	1,769	\$60.1	2,000	Ť		90.0		268	6.928	1,868
200		L	ľ	,		1	ı	2005.7	ľ		1					1	*
Provincial 10(3)	.01.10	776.10	(6/1)	1,001.02		75452	57,133	(70.87	ı	25. 53.5	400,001	25.692	/80.03/	/: I So	102.273	247,960	109,459

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

					Urban Sanitation	nitation								Rurai Sa	Rurai Sanitation			
		٦	Household Toilets	ie.								H ₀ H	Household Toilets	lets				
4				1	Sub Sub-	Public		Total	Total					Subrotai	Sub-total	Public	Total	Total
Municipality/City	Flush	Pour	VIP/Dry	of Cons-	of Public	School	Public Toilets		Public Invest-	Urban Sewerage	Flush	Pour	VIP/Dry	of Cons-		School	Construction	Public favest-
		e sa		Cost	ment			Cost	ment Cost					Cost	ment		Cost	ment Cos
Ajuv	7.360			7,360			1.446	8,806	1,446		19,435	41,849		61,284	653	11,442	72,725	12,094
Almodian	16,951			16,951		1,168	1,808	19,927	2.976			43,400		43,400		6,305	49,704	6,982
Anilao	4,669			4,669			1,085	5.754			391	34,108		34,499		6.772	41,270	7,304
Badiangan	4,255			4,255			1,085	5,340	580			31,908		31,908		5,604	37,512	6,102
Balasan	881,8			8,188		467	1,085					31,965		31,965		7,005	38,970	7,504
Banate	4,X30			4.830			1,446	6,276				46.572		46.572	727	8.873	55,445	009'6
Barotac Nuevo	6,072			5,072		701	1,446				21.183	45,543		66.726		9.807	76,533	10.517
Barotac Vieto	10,097			10,097		467	1,446	12,010	1.913		20.033	46.629		299'99		10,741	77,403	11,468
Batad	2,760			2,760			1,085	3,845	1,085			25.479		25.479		3,736	29,215	4.133
Bingawan	10,396			10,396		701	1,446	12,543	2.147			12,902		12,902	201	2,802	15,704	3,003
Cabattian	104,282			104,282		934	1,808		2,742	181,617								
Calinox	12.834			12,834		467	2,531	15,832	2,998			104,439		104,439		14,244	118,682	15,873
Carles	\$60,9			6,005			2,170					89.577		245'68		17,513)	107,090	016'81
Concepcion	13,179			13,179		234	1,446	14,859				46.756		46,756	427	8,406	55,162	9,135
Dingle	15,916			15,916			1.446	17,362	1,446		26,680	18,556		45,236		7,706	52,941	2,995
Duerlas	12,443			12,443			1,085	13,528	1,085			36,167		36,167		4.904	41.070	5,468
Dumangas	4,140			4,140			1,808	5,948	1.808		27.577	58.543		86,120		13,310	90,430	14,223
Estancia	22,885			22.885		934	,446	25,265	2,380	39.296		\$2,720		52,720	822	10,274	62,994	960'11
Gumbal	20,516			20,516		1,40	1,446	23,363				42,032		42,032	959	7.005	49,037	7,661
lgbaras	13,202			13,202		1,168	446	15,816				28,397		28,397		120'9	34,468	6.514
Janiuay	20,930			20,930		934	2,170	24,034	3,104	36,814	3,864	69,443		73,307		13,777	87,083	14,860
Lambunao	11,569			11,569			1,808					105,398		105,398		16,579	121.976	18,223
Leganes	15.272			15.272		467	1,808	-			2,484	20.530		23,014	Ì	4,203	27,217	4,523
Lemery	8,671			8,671			1,446		1,446			29.370		29,370		6,305	35,675	6,763
Leon	12,926			12,926			2,170	15.096	2,170		16,445	67,257		83,702		12,843	96.545	13,892
Maasin	901.08			9, 108			.446	10,554	.446		8.487	37,055		45.542		7.472	53,014	8.050
Miagao	19,120			19,320		467	2,531	22,318	2,998			61.293		61.293		11,909	73,201	12,865
Mina	6,095			6.095			1,446	7,541	.446			25.267		25.267	394	4,670	29,937	5,064
New Lucena	6,164			6,164			446	- 1	446		6.210	16,060		22,270	251	4,203	26.473	4,454
Oton	163,553			163,553		9.340	2.170	_	11.510	ľ	- [
Passi City	21.367			21.367		2	2.170	23.770	2,403	-1	29.417	63.650		93,346	1	16,345	100,691	17,342
Pavia	8.78 1.89	88		19,849	9	41.4	4	١	7.65.2	41.749	1	36,731		45.784	1	8	52.269	7.578
Potolan	41.70			41.170		3,209	- C-	ł	2,300	7001.1		0,4,0		/0.430	١	12. 42	82.572	13.24
Nan Dionisio	3,80			13,800		3	9440		913			33.586	-	33.586	2	.78	41.292	8.229
San Enrique	2,590	787		3,775	4		9	۱	9			60.4%		40.495	١	0.772	47.207	7,403
San Joaqum	12,236			12,236		02	2,893	-	3.593		28.580	66,735		95.324	ı	1.98	107.233	12.950
San Miguel	37,490			37,490		0/	2.170	1	2.870	64.277		11.224		11.224		2,102	13,325	2.277
San Rafael	9.036			9.936		234	1,808	876.11	2.042			21,460		2),460		3,736	25.196	4.071
Santa Barbara	4,347	5.457		9.804	85	467	2,170	12,440	2,722			72,700		72.700	1.134	8,640	81,339	9,774
Sara	8.832			8.832		467	2.531	11.830	2.998			71.233		71,233		12,609	87.842	13,720
Tigbauan	22,471			22.471		1,16%	X08, I		2.976	38.186		85,065		85,065	1.327	11.442	96,507	12.769
Tubungan	4.209			4.200			3,254	-	3.254			41,821		41.821		5.371	47,191	6.023
/л-гауа	7,797			7,797		467	1,80X		2,275			35,306		15,306	1	3,503	38,809	4.053
Provincial Total	780,114	6,796		786,910	106	28.954	75.936	891,800	104.996	792.773	219.328	1,919,927		2,139,255	156'62	353,753	2,493,007	383,703
																		Ì

10.4 Costs of Sector Management

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.

Table 10.4.1 Breakdown of Community Development and Training Cost

	Component	% Share of Cost
I.	Preparation for Training Activities	10
l	1.1 Transportation	1
	1.2 Technical Assistance	1
	1.3 Food	ı
1	1.4 Supplies and Materials including Production of Training Kits	6
ĺ	1.5 Generation of Training Aids	1
2.	Conduct of Training Activities	53
	2.1 Transportation	5
ŀ	2.2 Food	12
1	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
Ī	3.2 Food	15
	3.3 Accommodation	12
	3.4 Field	4
	Total	100

11. FINANCIAL ARRANGEMENTS FOR MEDIUM-TERM DEVELOPMENT PLAN

11.3 Additional Funding Requirements

Percentages for Annual Investment

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

Table 11.3.1 Percentages for Annual Investment

Sub-Sector	Component	2001	2002	2003	2004	2005	Total
··	Level III System		40				100
Urban Water	Feasibility Study and Detail Design	50	50	0	0	0	100
Supply	Construction & Supervision	0	20	30	30	20	100
	Institutional Development	30	20	20	20	10	100
	Level I Facility			l	l	ļ	
	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		 		ļ	 	
4.44.5	Detail Design	100	0	0	0	0	100
	Construction & Supervision	50	50	0	0	0	100
	Institutional Development	50	50	0	0	0	100
	Urban Household Toilet	12	22	22	22	22	100
	Rural Household Toilet	12	22	22	22	22	100
	Public School Toilet	12	22	22	22	22	100
Sanitation	Public Toilet	12	22	22	22	22	100
Samuton	Disinfection of Level I Wells	12	22	22	22	22	100
	Detail Design	100	0	0	0	0	100
	Construction & Supervision	0	20	30	30	20	100
	Institutional Development	30	30	20	10	10	100

Note: Institutional development includes:

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

Urban water supply:

 Engineering services for feasibility study and detailed design will be undertaken in the first two years.

- Construction work accompanied by supervisory services will be commenced partially in 2nd year and in full operation from 3rd year to 4th year.
- Community development will take place from the first year.

Rural water supply (Level I):

 Engineering services for detailed design will be undertaken during the first two years for Level I and completed within the first year for Level II.

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

Sanitation:

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

11.4 Medium-Term Implementation Arrangements

11.4.2 Alternative Countermeasures

Comprehensive Investment Need Ranking for the Municipalities

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

11.5 National Government Assisted Level I Water Supply and Sanitation Project

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

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

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

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

O&M for Rural Water Supply

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

O&M for Sanitation

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

Table 11.4.) Comprehensive Investment Need Ranking of the Municipalities

N. man of	pun jo %)	lemented and Unser	% of Underserved and Unserved Population of Households)	ouseholds)	_	•		_						
Muncipuhty/City	Urban Water Supply	Rural Water Supply	Urbas Sanifation	Rural Sanitation	Urban Water Supply	Rural Water Sumply	Urban Sanitation	Rural Sanitation	Urban Water Supply	Rural Water Sanoly	Urban Sanitation	Rural Santahan	Vergitted Store	Need Ranking
Ann	< Z	3	1	5	0.0	0.40	9.80	09:0	0.0	0.10	0.0	0.15	04.0	112
Almortino	2	1	°		09.0	0.40	0.20	0.30	0.15	0.10	900	0.0	0.15	,
A.14 (b.)	Ş	7.5	3	*	0.57	0.0	8:	00'1	1.0	0.20	0.25	v2'0	0.84	۲.
Radinanin	< 7	7	×	70	0.46	0.20	0.20	0.20	0.12	0.05	0.0	90.0	0.27	O#
dalan an	< x	Ç.	23	202	980	8	08.0	8.	0.17	570	616	0.7	2¥.0	*
L course	«Z	-	-	Z	0+0	000	8	8	0.12	0.15	6,0	0.25	0.77	0
Classical March	2			7	0.26	0.70	0+0	0,60	0.07	\$0.0	0.10	61.0	0.37	5
Dairies vin vi	2	2		17	100	O ^N C	000	8	100	0.10	61.0	57.0	0.73	ŝ
Marrotae Vielo	V.V.	*	٥	1.1	O.P.O.	0.40	8	9	e e	0 0	1,00	0,0	0.45	2
Hatud	Y .	C		2	3	٤	3 8					o c	0.70	<u> -</u>
Ringawan	×	8		50.		3 8				,		,	0 77	: <
Cubatuan	V.A	100		CV.	800	3 3	3	3 3			200		3	<u> </u>
Calinov	ν,	99	0		9	8	07.0	O¥'S	27.0	5	55	2	ć	١
Curles	V.X	70	42	62	00:	8.	1.00	90:	0.25	0.25	0.2	0 24	8	_
Convencion	×	100	<u>e</u>	80	0.03	0.80	0.40	1.00	0.73	0.20	01.0	0.25	0.78	s.
Denvie	Ϋ́Z	- 12		=	0.40	0.20	0.20	0.20	0.12	60.0	\$0.0	60.0	0.27	04
Oneshar	× Z	3.1	12	-	0,49	0.40	0,40	09'0	0.17	0.10	01.0	0.15	0.47	50
Ours. cause	2	\$5	, ,	9.	0.57	0.80	0.20	0,40	0,14	0.20	0.05	010	6,49	25
Financia	×	80	5	57	0.60	0.60	0,80	0.00	0.15	ð. \$	0.70	6.15	0.65	\$1
i quint	< 2	3	-	۰	0.43	0.40	0.20	0.20	0.11	01.0	000	90.0	0.31	1.1
uhana	47	87	7	94	0.86	090	0.20	0,60	0.22	51.0	0.0	0.15	72.0	16
ladinate.	ž	30	°	-	0.63	040	0.20	0.20	0.16	0.10	90'0	50.0	0.16	*
- Amphine and	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	35	0	-11	8:	08.0	0.20	0.20	0.25	0.20	0.05	90.0	650	ð
, estimates	47	3.2	٥	17	0.03	0.40	0.20	0.20	0.23	0,10	0.05	0.03	0.43	29
emen.	ź	22	5.	وا	0.50	0.20	0.60	0.40	0.15	0.0\$	\$1.0	010	57.0	2.7
	¥		-	85	1 0.63	0,40	0.20	0,40	91.0	0.10	0.05	01.0	0.41	0.
Magazin	¥z	Ş	0	23	0.76	0.40	0.20	0.20	0.10	0.10	50.0	90.0	0.70	2
97.77	< 7	4	22		18.0	0,60	0.40	0.40	0.21	9.13	0,10	0.10	0.56	81
N. O. M.	¥	42	-		0.70	0,00	0,40	0,40	61.0	0.15	0.10	0''0	0.54	12
Many 1 months	۶	30	22	×	0.76	0.20	0.60	0.20	61.0	50.0	9.15	90.0	0.44	2.8
100	ź	82	3	8	8.	8:	0.40	8:	0.25	0.25	01.0	0.25	6.85	2
Duces City	< Z	×	12	19	0.20	0.20	09.60	8:	0.05	0.05	0.15	0.23	0.50	£
Date:	7		2	se	0.0	0.20	0.40	0.20	0.08	\$0.0	0,10	50.0	0.28	٥
Posterin	2	-		1	0,46	0,40	0,20	0.20	0.12	0.10	0.05	0.0	0.32	9
Sun Diometo	× z	Ser.	74	8	0.00	800	80.1	0.80	0.15	o.15	0.25	0.20	6.75	8
Son Windows	₹ Z	1.7	7	\$5	0.93	0000	0.20	0.30	0.2.3	\$ O	9.00	0.20	0.6	7
Can Joannin	Ž	-	18	3	0.63	090	0.40	0.60	91.0	0.15	0.10	0.15	0.50	- 1
Can Missisel	×z	-	, .	-	0.12	0.20	0.20	0.20	0.0X	0.05	\$0.0	90.0	0.23	43
San Katuel	Z.A.	4.0	85	1,7	0.49	0.20	1.00	00.1	0.12	0.05	0,25	52.0	79.0	12
Santa Barbara	N.A.	61	7	1,0	0,49	0.20	0.20	0.20	0.12	0.05	0.05	0.0	0.27	40
Sara	× z		3.7	A+K	0.49	0.20	0.80	0.00	0.13	50.0	0.20	0.15	0.52	22
Tiebann	Ϋ́Z	95	01	3/2	0.76	0.80	1.00	0.40	0.19	0.20	0.25	0.10	0.74	o
Tubunyan	Υ.Υ.	5	-	=	95.0	0.00	0.20	0.70	0.14	0.01	0.05	0.0	0.29	38
Zamiva	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3	×	\$ P	0.83	0.40	0.70	0.20	0.2	01'0	0.0	0.03	0.41	1

(1) Scoring to Undersor of and Unserved Percentigic

2) Assumed Weight by Sub-Sector for Synthesis Evaluation by Minospaling

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Noss	0.1	6.8	9.0	70	

Avail. 3 (Unit 1,000 Pesos) Avail. Mun, Ϋ́ Avail. Related IRA Prov. TE Ĕ School Toiler Table 11.5.1 Available IRA for GOP-Assisted Level 1 Water and Rural Sanitation Project for Eligible Municipalities Term. Bus Public Prov. Muni. Mkt. Allorment of IRA 25,699 68,1XI Rural Sanitation Retated No.of Bgs 3,684 Sub-total Avail. IRA Prov. Mun. Su., Avail, Avail, A 139 11.863 22,972 798 2,886 1,181 2,430 Related Nox. of LEVEL 1 Facilities

p Shallow Spring Tel
ils Wells Dev'r Related Wells Wells Deep Nos, of R. Water Supply Related Allotment of 104 138 | 64,128 | 107,540 Altorinent of IRA Muni. Prov. 8cv.
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Table 11.5.2 Available IRA for GOP-Assisted Urban Sanitation Project for Eligible Municipalities

											-	
Municipality	L'epac	2	Ser.		Prov. Muni.	AK.	Term.	× 3000	Related	Σ	IR's	IRA
Aiuv	-	£.		ξ. ξ.	1691	-	-	1	3	302	1,691	2,083
Alimodian	<u> </u>	ŧ		443	868		1	C 1	4	545	8	.08
Anilao		ž		339	440	1.	-	0	rı	339	044	779
Badiangan	_	\$		0	065	-	1	0	el	٥	85 -	1.599
Balasan	ľ	å.	L	447	333	-	1	ć I	4	447	532	070
Janate	-	4th		9	97	-	-	0	· ·	336	440	776
Barryac Nuevo	"	3rd		76	. 95	-	-	-	3	76	1.952	2,028
Randae Viein		413	L	440	ž	-		r1	4	446	845	16.7
Barad	-	Ę,		341	953	_	-	0	r 1	ž.	156	1.293
Bingawan	-	å.		446	267	-	-	L,		446	09/	1.00
Cabonina	ž	414		3	2	-	_	<u>-</u>	=	<u>-</u>	25.	2,477
Calindor		P.		124	8	-	-	۲,	4	154	480	431
Sales Sales		1		×	\$		<u> </u> -	o	"	878	-92	1.430
Cocono		ķ		44	24.	-	-	١,	4	ą	745	1,188
Parale		1		6	18	-	-	,		٥	2.286	2.286
	ľ	4		1	L	<u> </u> -	-	°	[332	671	1.003
Dumanone	ľ	3		2	L		-	0	r1	332	643	117
Personal	_	4		8	554	_	-	0	۲:	8	254	431
Guimbal	=	ŧ,		497	767	-	-	۳.	8	497	767	1,264
obaca	•	4rh		441	\$	-	-	64	4	4	999	1,110
annua.	2	Ž	L	\$\$1	67.5	-	-	4	°	\$	672	1,223
County	ľ	3rd		86	867	۳.	.,	۲,	ľ	969	498	1,563
Canto	ľ	å		Š	850		_	~	5	105	929	1.157
cmerv	-	Ę		8	1,805		_	-	3	256	1,895	2,151
69	_	ŧ		ů	784	ľ	-	۲,	\$	\$26	784	1.310
Maasin	ľ	ŧ		98.		-	_	ı	3	386	634	1,021
Missao	-	Ž		8		F 4	2	٥	4	586	1.072	1.658
Wina	ſ'	ě,		247	L	٥		٥		247	259	8
New Lucena	-	Ş,		333	1.075	-	-	0	2	333	1.075	1.408
Oton	37	ž		1,763	Ĺ	-	1	26	3.8	1,763	1,483	3,246
Passi City	"	ř		٥	6,714	7		4				
Pavía	Š	414		148	2,430	-	-	4	°	57,1	2.439	3,010
Pototan	2	P.		SXS	1,403	1	•	7	10	888	1,403	2,288
San Diemisio	-	4		\$28	141		1	٠,	. 5	\$25	747	1.272
San Enrique	-	Ę		333	380	-	1	٥	••	333	380	713
San Joaquin	ľ	ŧ		3	š	ſ,	-	-1	Š	533	869	1,230
San Miguel	2	Ş.		715	7X2.X	_	-	7	0	715	3.287	1,00,1
an Rainel	-	ź		ž,	1.185			-1	·	455	1.85	Unio, I
Santa Barbara	ľ	幸		٥	5,170	٠,	-	0	4	0	5 370	64.13
Sara	_	ş	L	ŝ	000	۲,	-	ī	٩	120	2.600	3,221
ighanan	9	4 C		3	ŝ		7	٤	S	oor	125	1,020
ubungan	-	Ş		13.7	553		1	0	ri	334	559	950
Zadroda	_	ŝ	L	XIII	4.53	-	-	Ð		118	151	707

Table 11.5.3 Total Available IRA for GOP-Assisted Level I Water Supply and Sanitation Project

	Mun.	Sub-total	Nume of City or	Water Supply	Sani	Sanitation	Total
<u> </u>	<u>}</u>	K K	Municipality	Rural	(Jrhan	Rural	
ģ	1.69.1	1,083	Ajuy	0	2,083	6,117	8.200
1	8	ag.	Alimodian	0	1,043	1,466	XOS.C.
١,	044	77.0	Antlac	4,532	624	1.797	7,10x
۱.	8,	1.590	Badiangan	0	35.7	0	1.590
5	33	979	Balasan	3,837	646	1,714	6.530
9	440	776	Banate	0	776	2,243	\$,019
٥	1.952	2,028	Barotac Nuevo	0	X50.5	4,988	7.016
٥	845	167	Barotac Vicio	0	165'1	30.2.K	4.589
ΤΞ	156	1,293	Balad	3,084	1,291	ដ	5,200
٥	760	8	Bingawan	3,611	1,206	262	5,614
k	2	2,477	Cabatuan	0	2,477	0	7,477
E	480	ŝ	Calinog	0	150	3,09x	3,929
æ	26	1,430	Carles	0	1,439	3,409	4,848
c	745	1,188	Concepcion	0	1,188	81.2	3,584
0	2.286	2,286	Dingle	0	2,286	3.783	690.0
2	671	1.003	Duenas	0	1,003	1224	1,227
Č,	643	711	Dumangas	0	711	2,430	3.140
8	554	នូ	Estancia	0	120	339	1,259
5	767	1,264	Guimbal	5,304	1,264	659'1	8,228
=	98	011,1	Tgbaras	0	1,110	1,573	2,683
Ē	672	1,223	Janiuay	0	1,22,1	7,894	4,117
ķ	867	1,563	Lambunao	0	1,563	3,269	4.831
٥	930	1,157	Leganes	0	1,157	948	2,106
Ŕ	1,895	2,151	Lemeny	0	2,151	3,165	5,316
8	784	1.310	Leon	0	016,1	3,080	4,391
ę	20	1,021	Maasin	0	1,021	1,949	2,969
٥	1.072	1.658	Miagao	0	1,658	040	1,799
12	259	206	Mina	4,204	200	880.1	5,888
33	1.075	1,408	New Lucens	0	1,408	1.822	3,230
5	1,483	3,246	Oton	0	3,246	0	3,246
Γ			Passi City	0	0	0	0
11	2,439	3,010	Pavia	0	3,010	3,039	6,049
S.	1,403	2,288	Pototun	0	2,288	2.5%	4,877
7	747	1.272	San Dronisio	0	1,272	2,074	3,346
-	3KO	713	San Enrique	0	713	1.550	400
12	869	1,230	San Jooquin	0	0.23	2,652	1,882
٧.	3.287	1.00.1	San Miguel	0	1,00,1	1,0,14	5,037
5	1.85	Uinu. I	San Rafaci	688°;	1,640,	301.1	1706°F
0	5 170	5.170	Santa Barbara	0	5.379	97	X23.8
- 2	2,600		Sara	0	1221	5.996	0,217
00	521	1,020	Tigbauan	0	0.020	1.846	3.866
7	623	950	Tubungan	3,715	0.0	1,010,1	6.280
×	45.1	702	Zarraga	116%	727	710	5,412
•	47,559	67,176	Tetal	34,776	67.176	. 25r.4x	186,404

Section 1

Table 11.5.4 FIRR for Level I Water Supply

Year	No. of Decp Well	No. of Shallow Well Spring Devt.	spring Dev't.	Construction Cost	Rehab. & Replacement Cost	O&M Cost	Total Costs (Outflow)	No. of Households	Water Rate per month per household	Loans and Subsidies	Cash Inflow	Net Value
	22	·	-	11 243 900	0	0	11.243.900	420	147.23		742,039,20	(10.501.860.80)
	32	, oc		16.080.800	· 0	112,439	16,193,239	1,035	147.23		1,828,596.60	(14,364,642.40)
	32	· oc	_	16,080,800		273,247	16,354,047	1.650	147.23		2.915.154.00	(13,438,893.00)
4	22	ø	-	11,328,200	0	434,055	11,762,255	2.085	147.23	·•. •	3,683,694.60	(8.078,560.40)
s			-		0	547,337	547,337	2.085	147.23		3,683,694.60	3,136,357.60
ġ					0	547,337	547,337	2,085	147.23		3.683.694.60	3,136,357.60
۲					0	547,337	547,337	2,085	147.23		3,683,694.60	3,136,357.60
90					0	547,337	547,337	2,085	147.23		3,683,694.60	3,136,357.60
٥			•		0	547,337	547,337	2.085	147.23		3.683.694.60	3,136,357.60
10			•		0	547,337	547,337	2,085	147.23		3,683,694.60	3,136,357.60
11					2,146,300	547,337	2,693,637	2,085	147.23		3,683,694.60	990,057.60
2				-	3,183,200	547.337	3,730,537	2,085	147.23		3,683,694.60	(46,842.40)
13					3.183.200	547.337	3,730.537	2,085	147.23		3.683.694.60	(46,842,40)
7	··				2,230,600	547,337	2,777,937	2,085	147.23		3.683.694.60	905,757.60
15			,		0	547,337	547,337	2.085	147.23		3.683.694.60	3,136,357.60
9!					0	547,337	547.337	2.085	147.23		3,683,694.60	3,136,357.60
17					•	547.337	547.337	2,085	147.23	•	3.683,694.60	3,136,357.60
82					0	547.337	547,337	2,085	147.23		3.683,694.60	3,136,357.60
61					0	547,337	547.337	2,085	147.23	-	3,683,694.60	3,136,357,60
20					0	547,337	547.337	2,085	147.23		3,683,694,60	3,136,357.60

-6.945,535.00 -1.56% -23.025,341,22

Total: FIRR: NPV(@9%;

11 - 7

Table 11.6.1 Investment Program of GOP-Assisted Level I Water Supply and Sanitation Project

1st year 2nd year 3rd year 4th year 5 0 9.885.300 14.827.950 14.827.950 0 30.988.680 46.483.020 46.483.020 0 143.000 214.500 214.500 0 1.097.700 0 0 0 1.097.700 0 0 0 0.023.736 4.511.868 2.255.934 445.878 4.511.868 2.255.934 445.878 445.878 297.252 148.626 74,520 74,520 49,680 360.000 360.000 49,680 36,000 240,000 16.560 360.000 360,000 360,000 240,000 120,000 11,209,079 4,854,561 6,731,671 6,442,109 13,299,873 53,400,166 74,048,381 70.863,199 4,585,636 18,411,735 2,295,393 3,046,651 571,807 2,295,855 3,185,593 3,046,651 18,457,316 74,107,756 102,762,964 <th>Table 11.6.1 Investment riogi</th> <th></th> <th>Salara True</th> <th></th> <th>All of COL-Assisted Level 1 water outpit and sanitation 1 often</th> <th></th> <th>Unit: Peso</th>	Table 11.6.1 Investment riogi		Salara True		All of COL-Assisted Level 1 water outpit and sanitation 1 often		Unit: Peso
ey 1,148,000 0 9,885,300 14,827,950 14,827,950 14,827,950 154,943,400 0 1,097,700 0 1,097,700 0 1,097,700 0 1,097,700 0 1,097,700 0 1,097,700 0 1,148,000 1,	Category	Total Amount	1st year	2nd year	3rd year	4th year	5th year
ey 1,148,000 0 1,148,000 0 1,097,700 0 1,43,000 214,500 214,500 214,500 214,500 214,500 214,500 214,500 214,500 214,500 0 1,148,000 0 1,148,000 0 1,148,000 0 1,148,000 0 1,148,000 0 1,45,878 297,252 148,626 22,559,339 9,023,736 445,878 297,252 148,626 14,500 28,980 24,511,868 22,55,934 24,520 9,660 28,980 24,510,600 1,200,000 360,000 240,000 1,200,000 360,000 240,000 1,200,000 360,000 240,000 1,200,000 360,000 240,000 1,200,000 360,000 240,000 1,200,000 360,000 24,032,778 89,615,728 4,585,636 18,411,735 25,530,990 24,432,778 (T) 11,174,654 571,807 2,295,855 3,183,593 3,046,651 1,200,708 18,437,316 74,107,756 102,762,964 98,342,628	A. Const. & Civil Works	003 367 07	C	002 588 0	14.827.950	050 268 71	0 884 300
Fy 1,148,000 0 1,097,700 0 0 0 1,097,700 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. Water Supply 2. Sanitation	154,943,400	0 0	30,988,680	46,483,020	46,483,020	30,988,680
ey 1,148,000 1,148,000 0 1,097,700 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3. Land Acquisition	715,000	0	143,000	214,500	214,500	143,000
ices 1,148,000 1,148	B. Equip./Logistic Support	1,097,700	0	1,097,700	0	0	0
rc. Prog. 3,200,000 960,000 960,000 640,000 320,000 g. Prog. 1,486,260 445,878 445,878 148,626 148,626 ene Educ. 248,400 74,520 74,520 28,980 24,840 Surveil. 165,600 49,680 28,980 33,120 16,560 Support 1,200,000 360,000 360,000 240,000 120,000 A+B+C+D) 23,628,680 1,209,079 4,854,561 6,731,671 6,442,109 A+B+C+D) 259,915,479 13,299,873 53,400,166 74,048,381 70,863,199 c+D+E+F) 259,915,479 13,299,873 53,400,166 74,048,381 70,863,199 rey 89,615,728 4,585,636 18,411,735 25,530,990 24,432,778 rey 11,174,654 571,807 2,295,885 3,183,593 3,046,651 Total 360,705,861 18,457,316 74,107,756 102,762,964 98,342,628	C. Consultancy Services 1. Hydrogeological Survey 2. D/D and Const. Sv.	1,148,000	1,148,000	4,511,868	4,511,868	2.255.934	2,255,934
Tog. 1,486,260 445,878 445,878 297,252 148,626 24,840 28,980 28,980 28,980 33,120 16,560 port 1,200,000 360,000 360,000 44,854,561 6,731,671 6,442,109	D. Instiutional Devt.	000 000	000 000	000 090	000 000	000 002	320 000
Educ. 248.400 74,520 74,520 49,680 24,840 9,660 9,660 28,980 28,980 19,320 9,660 9,660 26,600 360,000 360,000 240,000 240,000 15,000 120,000 15,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 12,000,000 12	1. Capacity Enhanc. Frog.	1,486,260	445,878	445,878	297,252	148,626	148,626
eil. 96,600 28,980 28,980 19,320 9,660 port 1,200,000 360,000 360,000 240,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 13,299,873 53,400,166 74,048,381 70,863,199	3. Health & Hygiene Educ.	248,400	74,520	74,520	49,680	24,840	24,840
port 1,200,000 360,000 360,000 240,000 1200,000 1200,000 1200,000 360,000 360,000 360,000 240,000 1200,000 1200,000 1200,000 23.628,680 1,209,079 4,854,561 6,731,671 6,442,109 (4,12+F) 259,915,479 13.299,873 53.400,166 74,048,381 70.863,199 (5,12+F) 11,174,654 571,807 2,295,855 3,183,593 3,046,651 13.295,855 13.83,593 3,046,651 13.295,855 13.83,593 3,183,593 3,046,651 13.295,855 13.83,593 3,183,593,593 3,183,593 3,183,593 3,183,593 3,183,593 3,183,593 3,183,593,	4. Water Ouality Surveil.	009'96	28,980	28,980	19,320	099'6	099.6
port 1,200,000 360,000 360,000 240,000 120,000 120,000	5. NGO Assistance	165,600	49,680	49,680	33,120	16,560	16,560
B+C+D) P+E+F) 259,915,479 13,299,873 53,400,166 74,048,381 70.863,199 VAT) 11,174,654 571,807 2,295,855 3,183,593 3,046,651 a) 360,705,861 18,457,316 74,107,756 102,762,964 98,342,628	6. Administrative Support	1,200,000	360,000	360,000	240,000	120,000	120,000
e Contingency 89.615,728 4.585,636 18.411,735 25.530,990 24.432,778 e Contingency 89.615,728 4.585,636 18.411,735 25.530,990 24.432,778 ac Added Tax (VAT) 11,174,654 571,807 2.295,855 3.183,593 3.046,651 Grand Total 360,705,861 18,457,316 74,107,756 102,762,964 98,342,628	E. Physical Contingency (10% of sub-total A+B+C+D)	23,628,680	1,209,079	4,854,561	6,731,671	6,442,109	4,391,260
e Contingency 89.615,728 4.585,636 18,411,735 25,530,990 24,432,778 3.046,651 3.046,651 360,705,861 18,457,316 74,107,756 102,762,964 98,342,628	Total (A+B+C+D+E+F)	259,915,479	13,299,873	53,400,166	74,048,381	70.863.199	48,303,860
11,174,654 571,807 2.295,855 3,183,593 3,046,651 360,705,861 18,457,316 74,107,756 102,762,964 98,342,628	F. Others	80 615 728	759 585 7	18 411 735	25 530 990	24 432 778	16 654 589
360,705,861 18,457,316 74,107,756 102,762,964 98,342,628	2. Value Added Tax (VAT)	11,174,654	571,807	2,295,855	3,183,593	3.046,651	2,076,748
	Grand Total	360,705,861	18,457.316	74,107,756	102.762.964	98.342,628	67,035,197

Note: Item A includes equity of users.

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

Table 11.6.2 O&M Cost for Level I Facilities

	Deep Wetl	Shallow Well	Spring Dev't
Nos. of Facilities to be Constructed	108	27	4
Nos. of HHs to be Served	1,620	405	60
Reconstruction Cost (Peso) Unit Cost	458,400	84,300	737,600
Ttl. Reconst. Cost	49,507,200	2,276,100	
Ttl. Reconst. Cost/year	2,475,360	227,610	
Cost per HII/year	1,528	562	
Rehabilitation Cost (Peso)			
Unit Cost	78,700	:	
Ttl. Rehab. Cost	8,499,600		
Ttl. Rehab. Cost/year	849,960		
Cost per HH/year	525		
Recurrent Cost for O&M (Peso) Cost per HH/year	100	50	50
O&M Cost Total (Peso) Cost per HH/year	2,053	612	50

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

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

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

	Deep Well	Shallow Well	Spring Devit
O&M Cost per HH/month	108	27	4
Proportion (Mean)	1.1%	0.3%	0.0%
Proportion (Median)	1.5%	0.4%	0.1%

Table 11.6.4 Family Income

(Unit: Pesos)

Anı	ıual ¹⁾	Mon	thly 2)
Mean	Median	Mean	Median
56,883	41,968	9,978	7,361

Note: 1) 1994 NSO Family Income and Expenditure Survey

O&M Cost for GOP Assisted Sanitation Project

Table 11.6.5 O&M Cost for Rural Sanitation

(Unit: Pesos)

Nos. of Facilities	to be Constructed	Unit Constr	uction Cost	Yearly O&M
Public Toilets	School Toilets		School Toilets	Cost
0	413	361,600	233,500	4,821,775

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

Table 11.6.6 O&M Cost for Urban Sanitation

(Unit: Pesos)

Nos. of Facilities	to be Constructed	Unit Consti	ruction Cost	Yearly O&M
Public Toilets	School Toilets	Public Toilets	School Toilets	Cost
94	105	361,600	233,500	2,925,395

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

²⁾ Estimated value in 2005 applying 7% inflation rate/year

12. MONITORING FOR MEDIUM-TERM DEVELOPMENT PLAN

12.4 Evaluation of Plan Implementation and Updating the PW4SP

Table 12.4.1 Draft Formats for Annual Sector Performance Summary Report (Provincial and Municipal Levels) Provincial Water & Sanitation Monitoring System Annual Sector Performance Summary Report Province of

Service Coverage

Period Covered:

		LAST	LAST YEAR			THIS YEAR	YEAR	
		Persons	Persons	Persons		Persons	Persons	Persons
Municipality		with Safe	with	with		with Safe	with	with
	Population	Water &	Safe	Sanitary	Population	Water &	Safe	Sanitary
	ĵ	Sanitary	Water	Toilets	9	Sanitary	Water	Toilets
-		Toilets	Oaly VIEO	S S		Toilets	Only	Qaly y
		3	(4)	(5)		63	(8)	(6)
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								-
14.								
15.								
Total								
% Served								
		Targets	ı,					
					Warren			

II. Sources & Uses of Capital Development Funds

	Others (10)																	
	0 -						- 		-			- 			·			
	Public Toilets (9)		-												-			
	School Toilets (8)																	
Uses of Funds	Household Toilets (7)						-											
Us	Water Storage/ Treatment & Distribution (6)		•															
	Water Supply Transmission (5)						·											
	Water Source Development (4)		-															
	Actual Disbursement (3)						,											
	Budget for Water Supply & Sanitation (2)																	
	Source of Fund (1)	A. Local Funds. Provincial Funds Municipal Funds	Ϋ́α	á Ci	Ŏ M	<u>u</u> (ਹ ਸ਼	ï	SUB-TOTAL	B. National Funds	DPWH	DOH	SUB-TOTAL	C. External Funds	0 00	OĐN	SUB-TOTAL	TOTAL

III. School Sanitation (Source, DECS)

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

IV. Incidence of Diarrhea (Source IPHO)

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

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

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

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

Form M-1

Municipality of Provincial Water & Sanitation Monitoring System

Annual Sector Performance Summary Report
Period Covered: to

I. Service Coverage

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

II. Sources & Uses of Capital Development Funds.

				2260	Osca of Lancas			
Budget (2)	Actual Disbutsement (3)	Water Source Development (4)	Water Supply Transmission (5)	Water Storage/ Treatment & Distribution (6)	Household Toilets (7)	School Toilets (8)	Public Toilets (9)	Others (10)
Municipal Funds								
Barangay Funds								
				-				
1								
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