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

			<u> </u>	Č			P	Juniosticus h	70,000	otoriole		Canvassed &	g p	
i i	Wat	water Supply	≥ >	S	Sanitation		-	rrojection by major materials	y major n	ialei iais		collected price	rice	Comparison
Major Materials			ļ	ST, Flush	Flush	VIP.	NSO who	NSO wholesale price index	ndex	Price	e	DPWH.	CIAca	(1), (2) & (3)
	<u> </u>	ווי-ז וג-ז ג-ז		PŢ	type	F.	1995	1998 Es	Escalation	1995	1998(1)	-	Č	
1 Appregate	×	×	×	×	×	×	311.6	367.5	5.7%					Almost same with (2)
Sand										304	359	330	350	350 0 (3).
Gravel				•						385	454	418	500	
2 Cement	×	×	×	×	×	×	197.4	214.1	2.7%	117	127	126	105	105 ditto
3. Fuel	×		·×				601.6	742.6	7.3%	1.100	1,358	1306		ditto
4 Metal pine	×	×	 ×				208.7	226.3	2.7%					Price of GI casing is
4" × 3m GI	!	:		-						2,625	2,846	2763		aimost same with (2).
4" x 3m. Screen				٠						4,313	4,667	5291		lower than (2).
5. PVC pipe	×	×	×	×			199.2	223.4	3.9%					Price of PVC pipe is
2"×3m									. :	813	912	882	852	852 and 7% higher than
1-1/2" elbow										13	15		4	40 (3).
6. Reinforcing	×	×	×	×	×	×	201.4	221.9	3.3%	,				Almost same with (3).
12mm x 6m										89	75		75	
10mm x 6m								* · · ·		49	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%					

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

GI: Galvanized iron steel pipe for well casing. Screen: Low carbon steel and wound wire type

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	٠.		*.	
1. Materials				
(1) 100mm x 3m Steel Casing with coupling	11	pcs.	2,846	
(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	
3. Borehole Logging	i	no	16,000	
4. Freight Cost (8% of Materials)		LS		3,799
Sub-Total of B				167,286
C. Well Development and Pumping Test				No. 1
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	State of the State	1
1. Materials		1		
(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				
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				27,409
2. Labor (40% of D-1.)				10,964
3. Freight Cost (8% of Materials)		LS		2,193
Sub-Total of D				40,566
E. Indirect Cost			14.	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Profit (10% of A, B, C & D)		- :		42,185
Overhead Expense (13% of A, B, C & D)	$A_{1}T_{2}$	J* 1	lare e.i.	54,841
VAT (10% of Labor, Profit & Overhead Expense)			Mark State	20,799
Sub-Total of E				62,984
Total of Construction Cost (A+B+C+D+E)	1.4.1		ti Tananga	352,836
F. Estimated Government Expenses		a mari	degeneration of e	-ta 2 2 8 20
Preliminary & Detailed Engineering Cost	1.1	LS		3,600
2. Construction Supervision		LS	tor Hubbette	2,400
3. Water Quality Analysis		LS		1,400
Sub-Total of F				7,400
GRAND TOTAL				360,236
SAY		4		360,200
UPA 1	<u> </u>			

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

				(Cost: Peso)
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	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	pes.	4,667	9,334
(4) Casing Centralizer	0	set	1,925	0
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	
4. Freight Cost (8% of Materials)	-	LS	10,000	3,491
Sub-Total of B				127,128
C. Well Development and Pumping Test	<u>.</u>			127,120
Well Development	12	hr.	5,500	66,000
Pumping Test	6	hr.	5,000	30,000
Sub-Total of C			3,000	96,000
D. Gravel Packing, Installation of Handpump and Construc	tion of D	latform		30,000
D. Graves Packing, Instantation of Hanopump and Construction 1. Materials	COOR OF F	## [[] [] [] [] [] [] [] [] []		
	1	204	11 016	11 016
(1) Improved Deep Well Cylinder Pump (Afridev Type)	. 1	set	11,815	
(2) 63mm x 6m Riser Pipe and Pump Rod	0	pcs.	1,880	
(3) #10 Sieved Gravel	V	cu.m	1,026	
(4) Coarse Sand	l a	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	}
3) Sand	1	cu.m	359	i
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		ĺ		26,256
2. Labor (40% of D-1.)			1 2 26 8	10,502
3. Freight Cost (8% of Materials)	<u> </u>	LS.		2,100
Sub-Total of D	,			38,858
E. Indirect Cost				1000
Profit (10% of A, B, C & D)				31,399
Overhead Expense (13% of A, B, C & D)	S. 1			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)		1 1 1	in the second of	294,057
F. Estimated Government Expenses			Harfur agents	84 14 1 d
1. Preliminary & Detailed Engineering Cost		LS		3,600
2. Construction Supervision		ĹS		2,400
3. Water Quality Analysis		LS		1,400
Sub-Total of F	†	<u> </u>		7,400
GRAND TOTAL		 	(A £21	301,457
SAY				301,500
Mata-LC Luma Cum	<u>*</u>			

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

				(Cost: Peso
Description	Qty.	Unit	Unit Cost	Amount
A. Mobilization/Demobilization/Site Preparation	<u> </u>	LS		52,00
B. Drilling of Well & Installation of Steel Casing/Screen				l
1. Materials			1	
(1) 100mm x 3m PVC Casing with Socket	11	pcs.	2,038	22,418
(2) 100mm x 3m PVC Casing with Plug	1	pc.	980	980
(3) 100mm x 3m Stainless Steel Screen	2	pes.	12,700	25,400
(4) Casing Centralizer	2	set	1,925	3,850
2. Labor, Fuel, Lubricant and others	İ			
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		4,212
Sub-Total of B			}	172,860
C. Well Development and Pumping Test				
Well Development	24	hr.	5,500	132,000
Pumping Test	6	hr.	5,000	
Sub-Total of C				162,000
D. Gravel Packing, Installation of Handpump and			 	102,000
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	12	pcs.	2,450	
(3) #10 Sieved Gravel	1	cu.m	1,026	1
(4) Coarse Sand		cu.m	359	
(5) Cement for Sanitary Seal	1	_	127	1
(6) Pump Base and Platform	4	bags	12/	508
1) Cement	ادا	L	107	
2) Gravel	4	bags	127	(
· · · · · · · · · · · · · · · · · · ·	2	cu.m	454	
3) Sand	- 1	cu.m	359	1
4) Plywood (1,200nm x 2,400mm x 6mm)	: 1	pc.	294	
5) Form Lumber (50mm x 75mm x 1,800mm)	6	pcs.	52	1
6) Nail	1	kg.	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	ŀ			
Profit (10% of A, B, C & D)			1. 14 (1)	45,424
Overhead Expense (13% of A, B, C & D)	15	. 1	- · .	59,052
VAT (10% of Labor, Profit & Overhead Expense)		·	1	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	<u> </u>	LS	4 A. W	3,600
2. Construction Supervision		LS		2,400
3. Water Quality Analysis		LS	a ala	1,400
Sub-Total of F		**		7,400
GRAND TOTAL				397,336
SAY				397,300
Note: LS - Lump Sum				

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

Table 10.2.3 (a) Unit Cost of Level I (Gravel				(Cost: Peso)
Description	Qty.	Unit	Unit Cost	Amount
A. Mobilization/Demobilization/Site Preparation		LS		54,000
B. Drilling of Well & Installation of Steel Casing/Screen				1981.61
1. Materials	1			
(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	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	80	m	2,500	200,000
3. Borehole Logging	1	no	18,000	18,000
4. Freight Cost (8% of Materials)		LS	<u> </u>	6,759
Sub-Total of E				309,24
C. Well Development and Pumping Test				
Well Development	24	hr.	5,500	132,00
Pumping Test	6	hr.	5,000	30,00
Sub-Total of C				162,00
D. Gravel Packing, Installation of Handpump and Constru		atform		
1. Materials				1.00
(1) Improved Deep Well Cylinder Pump (Afridev Type)	1	set	11,815	: 11,81
(2) 63mm x 6m Riser Pipe and Pump Rod	8	pcs.	1,880	
(3) #10 Sieved Gravel	1	cu.m	1,026	
(4) Coarse Sand	1	çu.m	359	
(5) Cement for Sanitary Scal	4	bags	2 127	50
(6) Pump Base and Platform	· ·	0-85		
, , , , , , , , , , , , , , , , , , ,	4	bags	127	50
1) Cement	2	cu.m	454	
2) Gravel	1	çu.m	359	
3) Sand 4) Plywood (1,200mm x 2,400mm x 6mm)	i	pc.	294	
5) Form Lumber (50mm x 75mm x 1,800mm)	6	-	52	31
·	ĭ	kg.	40	4
6) Nail Sub-Total of D-	1 . 1	wg.	·	31,16
	1			12,46
2. Labor (40% of D-1.)		LS		2,49
3. Freight Cost (8% of Materials) Sub-Total of	n	} 		46,13
	-		1 11	3 - 2 13-3
E. Indirect Cost				57,13
Profit (10% of A, B, C & D)		. 3 1		74,27
Overhead Expense (13% of A, B, C & D)				34,38
VAT (10% of Labor, Profit & Overhead Expense) Sub-Total of	TC .	·		91,52
	E .	 	e edita i se	530,90
Total of Construction Cost (A+B+C+D+E)		 		330,70
F. Estimated Government Expenses		LS		3,60
1. Preliminary & Detailed Engineering Cost		LS		2,40
2. Construction Supervision		LS		1,40
3. Water Quality Analysis	E	1	<u>Lizendan ženi šše</u>	7,40
Sub-Total of	r _	 -	11.14	538,30
GRAND TOTAL			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	538,3
SAY		<u> </u>		1 220.3

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

Description	T		Tvi	(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 Steel Casing with coupling	24	F	2,846	1
(2) 100mm x 3m Steel Casing with one end closed	1	pc.	2,997	
(3) 100mm x 3m Low Carbon Steel Screen	2	pcs.	4,667	I
(4) Casing Centralizer	0	set	1,925	(
2. Labor, Fuel, Lubricant and others				
Well Drilling for 80 m depth at 150mm borehole	80	m	1,600	
3. Borehole Logging	1	no	18,000	1
4. Freight Cost (8% of Materials)		LS		6,45
Sub-Total of B		<u></u>	ļ	233,080
C. Well Development and Pumping Test			*	
Well Development	12		5,500	
Pumping Test	6	hr.	5,000	30,000
Sub-Total of C		<u> </u>		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	pċs.	1,880	15,040
(3) #10 Sieved Gravel	0	cu.m	1,026	
(4) Coarse Sand	1	cu.m	359	359
(5) Cement for Sanitary Seal	1 3	bags	127	381
(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	294
5) Form Lumber (50mm x 75mm x 1,800mm)	6	ècs.	52	312
6) Nail	1	kg.	40	40
Sub-Total of D-1		3-		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				1,1,120
Profit (10% of A, B, C & D)				42,751
Overhead Expense (13% of A, B, C & D)				55,576
VAT (10% of Labor, Profit & Overhead Expense)			44.	23,833
Sub-Total of E				66,584
Total of Construction Cost (A+B+C+D+E)				428,093
F. Estimated Government Expenses				T#0,073
Preliminary & Detailed Engineering Cost		LS		2 600
2. Construction Supervision	* * * * * *			3,600
Construction Supervision Water Quality Analysis		LS		2,400
		LS		1,400
Sub-Total of F			1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	7,400
GRAND TOTAL	,		# J 14 1	435,493
SAY Note: LS - Lump Sum			<u></u>	435,500

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		-	72 24	
1. Materials				
(1) 100mm x 3m PVC Casing with Socket	24	pcs.	2,038	48,912
(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 40 m depth at 200mm borehole	80	m	2,500	200,000
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				330,110
Well Development	24	hr.	5,500	132,000
Pumping Test	6	hr.	5,000	
Sub-Total of C	Ĭ	****	3,000	162,000
D. Gravel Packing, Installation of Handpump and Constru	ction of P	latform		102,000
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		2,450	
(3) #10 Sieved Gravel	10	pcs.		-
(4) Coarse Sand		cu.m	1,026	
1	1	cu.m	359	B.
(5) Cement for Sanitary Seal	4	bágs	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)		pc.	294	1
5) Form Lumber (50mm x 75mm x 1,800mm)	6	pcs.	52	312
6) Nail	ŀ	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	√ b -	4,426
Sub-Total of D				81,887
E. Indirect Cost				
Profit (10% of A, B, C & D)		:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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				96,181
Total of Construction Cost (A+B+C+D+E)		. , .	and the second	565,541
F. Estimated Government Expenses		1 1 1	engala ay d	Padde To
1. Preliminary & Detailed Engineering Cost		LS		3,600
2. Construction Supervision		LS	the state of	2,400
3. Water Quality Analysis		LS		1,400
Sub-Total of F				7,400
GRAND TOTAL			1 12 17 E	572,941
SAY				572,900
Note: LS - Lump Sum				

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 2.846 105,302 pes. (2) 100mm x 3m Steel Casing with one end closed 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 120 m depth at 200mm borehole 120 2,500 300,000 m 3. Borehole Logging 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 hr. 5,000 30,000 Sub-Total of C 162,000 D. Gravel Packing, Installation of Handpump and Construction of Platform 1. Materials (1) Improved Deep Well Cylinder Pump (Afridev Type) set 11,815 11,815 (2) 63mm x 6m Riser Pipe and Pump Rod 10 1,880 18,800 pcs. (3) #10 Sieved Gravel cu.m 1,026 1,026 (4) Coarse Sand 359 cu.m 359 (5) Cement for Sanitary Seal bags 127 508 (6) Pump Base and Platform 1) Cement bags 127 508 2) Gravel çu.m 454 908 3) Sand 359 cu.m 359 4) Plywood (1,200mm x 2,400mm x 6mm) 294 294 pċ. 5) Form Lumber (50mm x 75mm x 1,800mm) pcs. 52 312 6) Nail 40 kg. Sub-Total of D-1 34,929 2. Labor (40% of D-1.) 13,972 3. Freight Cost (8% of Materials) 2,794 Sub-Total of D 51,695 E. Indirect Cost Profit (10% of A, B, C & D) 72,090 Overhead Expense (13% of A, B, C & D) 93,717 VAT (10% of Labor, Profit & Overhead Expense) 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 3,6002. Construction Supervision LS 2,400 3. Water Quality Analysis LS 1,400 Sub-Total of F 7,400 **GRAND TOTAL** 716,365 SAY 716,400

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

Description	Otr	Unit	Unit Cost	Cost
A. Mobilization/Demobilization/Site Preparation	Qty.	LS	Our Cost	56,000
B. Drilling of Well & Installation of Steel Casing/Screen		LO		50,000
1. Materials (1) 100 mm = 2 m Steel Cooling with counling	37	pcs.	2,846	105,302
(1) 100mm x 3m Steel Casing with coupling	37;		2,997	2,997
(2) 100mm x 3m Steel Casing with one end closed		pc.	4,667	9,334
(3) 100mm x 3m Low Carbon Steel Screen	2	pes.		7,334
(4) Casing Centralizer	0	set	1,925	Ÿ
2. Labor, Fuel, Lubricant and others	120	1.5	1.000	103.000
Well Drilling for 120 m depth at 150mm borehole	120	m	1,600	192,000
3. Borehole Logging	L	110	20,000	20,000
4. Freight Cost (8% of Materials)		LS		9,411
Sub-Total of B				339,044
C. Well Development and Pumping Test				<<.000
Well Development	12	hr.	5,500	66,000
Pumping Test	6	hr.	5,000	30,000
Sub-Total of C	<u> </u>			96,000
D. Gravel Packing, Installation of Handpump and Constru-	ction of P	latform	l. , . ::	
1. Materials	, de t			
(1) Improved Deep Well Cylinder Pump (Afridev Type)	1	set	11,815	11,815
(2) 63mm x 6m Riser Pipe and Pump Rod	10	pcs.	1,880	18,800
(3) #10 Sieved Gravel	Ò	cu.m	1,026	C
(4) Coarse Sand	1	cu,m	359	359
(5) Cement for Sanitary Seal	3	bags	127	381
(6) Pump Base and Platform			7 7 7	
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			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	† <u>-</u>			
Profit (10% of A, B, C & D)		1	1.75	54,103
Overhead Expense (13% of A, B, C & D)	ļ			70,334
VAT (10% of Labor, Profit & Overhead Expense)		34 () 34		32,993
Sub-Total of E	†			87,09
Total of Construction Cost (A+B+C+D+E)		 		562,130
F. Estimated Government Expenses	111	12.57		202,10
1. Preliminary & Detailed Engineering Cost		LS		3,600
2. Construction Supervision	1000	LS	(美国中部)	2,400
3. Water Quality Analysis		LS		1,40
Sub-Total of I		- 		7,40
	 	 		569,530
GRAND TOTAL	1		47.31	569,500
SAY Note: LS - Lump Sum	!	1	1	1 307,300

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				
(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)		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				
(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	
(3) #10 Sieved Gravel	- 1	çu.m	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	ì	kg.	40	40
Sub-Total of D-1		-3		65,129
2. Labor (40% of D-1.)				26,052
3. Freight Cost (8% of Materials)		LS	e ya je je	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		1.1		124,668
Total of Construction Cost (A+B+C+D+E)				741,146
F. Estimated Government Expenses				
1. Preliminary & Detailed Engineering Cost		LS	17, 715 (3	3,600
2. Construction Supervision		LS	·	2,400
		LS		1,400
3. Water Quality Analysis		Lo		7,400 7,400
Sub-Total of F		1 1 1 1 1		7,400
GRAND TOTAL				748,540 748,500
SAY	<u> L</u>		<u> </u>	140,300

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

				(Cost: Peso)
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)				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				
1. Preliminary & Detailed Engineering Cost		LS	1. E. E.	1,300
2. Supervision	4	LS	, * · ·	800
3. Water Quality Analysis		LS		1,400
Sub-Total of E				3,500
GRAND TOTAL				78,399
SAY			4174	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 Unit **Unit Cost** Q'ty Amount A. Mobilization/Demobilization LS 20,000 B. Drilling of Well & Installation of Steel Casing/Screen 1. Materials (1) 63mm x 6m PVC Pipe with socket 2 912 DCS. 1,824 (2) 63mm x 3m PVC Pipe with plug 452 pc. 452 (3) 63mm PVC Socket р¢. 12 12 (4) 63mm x 3m PVC Screen pc. 1,443 1,443 (5) Casing Centralizer set 725 1,450 2. Labor, Fuel, Lubricant and others Well Drilling for 18 m depth at 150mm borehole m 1,600 28,800 3. Freight Cost (8% of Materials) LS 298 Sub-Total of B 34,279 C. Well Development hr. 2,000 8,000 D. Gravel Packing, Installation of Handpump and Construction of Platform 1. Materials (1) 50mm Jetmatic Handpump set 2,807 2,807 (2) 50mm Riser Pipe and Foot Valve pc. 118 118 (3) #10 Sieved Gravel 0.1 cu.m 1.026 103 (4) Coarse Sand 0.071cu.m 359 25 (5) Cement for Sanitary Seal bag 127 508 (6) Pump Base and Platform 1) Cement 4 bags 127 508 2) Gravel ću.m 454 454 3) Sand cu.m 359 359 4) Plywood (1,200mm x 2,400mm x 6mm) 294 pc. 294 5) Form Lumber (50mm x 75mm x 1,800 mm) pc. 52 52 6) Nail 40 kg. 40 Sub-Total of D-1 5,268 2. Labor (40% of D-1.) 2,107 3. Freight Cost (8% of Materials) LS 421 Sub-Total of D 7,796 E. Indirect Cost Profit (10% of A to D) 7.007 Overhead Expense (13% of A to D) 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 ĹŚ 2,400 2. Construction Supervision LS 1,800 3. Water Quality Analysis LS 1,400 Sub-Total of F 5,600 **GRAND TOTAL** 84,294 SAY 84,300

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 10.2.7 Unit Cost of Level I (Spring Development)

				(Cost: Peso)
Description	` Q'ty	Unit	Unit Cost	Amount
A. Mobilization/Demobilization		LS	<u> </u>	24,000
B. Construction of Spring Box				
1. Materials		LS		42,700
2. Labor (35% of 1.)		LS		14,945
3. Freight Cost (8% of Materials)		LS		3,416
Sub-Total of B	1			61,061
C. Installation of Pipelines & Fittings			. :	
1. Transmission Materials				
63mm dia. PVC Pipe (Class 12.5 with socket)	330	pcs.	959	316,470
63mm dia. Tee	1	no.	172	172
Solvent Cement	26	i	140	3,640
63mm dia, Elbow (90 deg.)	3	nos.	- 89	
63mm dia. Elbow (45 deg.)	1	pc.	99	1
50mm dia. Gate Valve	: أو	pcs.	900	l 1
50mm dia. x 1m Stand Pipe	1	pcs.	177	
63mm x 50mm GI Nipple	1		123	
50mm dia, Union Patent	1 1	pc.	. 192	4.4
] 3	pcs.		
63mm x 50mm dia. Reducing Socket		pcs.	113	7.
50mm dia, GI Elbow (90 deg.)	2	pcs.	79	
63mm x 50mm dia. Socket Adapter	2	pcs.	167	
50mm dia. GI Gate Valve	2	pcs.	791	
13mm dia. Brass Faucet	2	pcs.	59	
Sub-Total of Materials				325,624
Labor (35% of Material Cost)		LS		113,968
Freight Cost (8% of Materials)		LS		26,050
Sub-Total of C		 	ļ	465,642
D. Indirect Cost				
1. Transmission Main				
Profit (10% of C)				46,564
Overhead Expense (13% of C)				60,533
VAT (10% of Profit, Overhead Expense & Labor)		'	1-4-1-1	22,107
2. Source Facilities	1.5	1.00		10 20 0
Profit (10% of A, B)	12			25,518
Overhead Expense (13% of A, B)			10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8,506
VAT (10% of Profit, Overhead Expense & Labor)	1	16.	L	4,897
Sub-Total of D		18 (18)		168,125
	44 Ja D	343.45	7 1, 1 : 1 4	
Total Construction Cost (A+B+C+D)				718,828
E. Estimated Government Expenses	科学企	10 11	17. N. 18. Mark 19.	2845075
1. Preliminary & Detailed Engineering and RWSA Format	ion	LS		2,400
2. Supervision		LS		15,000
3. Water Quality Analysis		LS		1,400
Sub-Total of F		 		18,800
CRAND TOTAL	1	\$1. J.		737,628
SAY		1.0		737,600
U. S. C.	<u> </u>	<u> </u>		,,,,,,,,

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 10.2.8 Unit Cost of Level II (600 Service Population)

Sheet Lof 2				(Cost: Peso)
Description	Q'ty	Unit	Unit Cost	Amount
A. Mobilization/Demobilization		LS		36,000
B. Construction of Spring Box & Ground Reservoir				
1. Materials		ĻS		128,000
2. Labor (35% of 1.)		LS		44,800
3. Freight Cost (8% of Materials)		LS		10,240
Sub-Total of B				183,040
C. Installation of Pipelines & Fittings				
1. Transmission Pipeline Materials				
63mm dia. PVC Pipe (Class 12.5 with socket)	500	pcs.	959	479,500
63mm dia, Tee	1	no.	172	172
Solvent Cement	40	cans	140	5,600
63mm dia. x 50mm Nipple	3	nos.	159	. 477
63mm dia. Union Patent	1	pc.	203	203
63mm dia. x 50mm dia. Reducing Socket	2	pcs.	123	
63mm dia. Elbow (90 deg.)	1	pc.	89	
63mm dia. Elbow (45 deg.)	1	pc.	99	1
63mm dia. Gate Valve	3	pcs.	1,320	1
Sub-Total of Materials		poo.	1,,,,,	490,346
Labor (35% of Material Cost)		LS		171,621
Freight Cost (8% of Materials)		LS		39,228
Sub-Total of Transmission Main	•			701,195
2. Distribution Pipeline Materials				701,123
	20	nde	531	10,620
50mm dia. PVC Pipe (Class 12.5 with socket)	30		353	l ' li
38mm dia. PVC Pipe (Class 12.5 with socket)	10	Z	118	, · · · · · · · · · · · · · · · · · · ·
20mm dia. PVC Pipe (Class 40 with socket)	10	٠.	110	
13mm dia. x 1 m Stand Pipe			140	
Solvent Cement	4	canș	140	300
Fittings	,		147	441
a. 50mm dia. x 150mm PVC Nipple	3	pcs.	147	
b. 32mm dia, x 150mm PVC Nipple	3	pcs.	89	1
c. 13mm dia. x 150mm GI Nipple	40		29	
d. 50mm dia. Union Patent		pcs.	192	[
e. 32mm dia. Union Patent	2	pcs.	83	i . I
f. 13mm dia. Union Patent	10	1 ·	29	
g. 50mm dia. x 32mm dia. Reducing Socket	6	1 .	106	
h. 32mm dia. x 20mm dia. Reducing Socket	10	1 ^	82	
i. 20mm dia. x 13mm dia. Reducing Socket	10	1 '	64	1
j. 50mm dia. PVC Elbow (90 deg.)	2	, ·	64	I I
k. 13mm dia. GI Elbow (90 deg.)	20	1 1	15	
1. 20mm dia. x 13mm dia. Socket Adapter	10	, -	48	
m. 50mm dia. GI Gate Valve	2		791	E ' 1
n. 32mm dia. GI Gate Valve	. 2	4 •	447	
o. 13mm dia. GI Gate Valve	24		271	, , ,
p. 13mm dia. Brass Faucet	- 24	pcs.	59	
q. 50mm dia. Tee	4	pcs.	153	
r. 32mm dia. Tee	6	pcs.	129	
s. Water Meter	24	pcs.	1,004	
t. Water Meter Box	- 24	pcs.	1,297	
Sub-Total of Materials				96,576

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

Sheet 2 of 2				(Cost: Peso)
Description	Q'ty	Unit	Unit Cost	Amount
Labor (35% of Material Cost)		LS		33,802
Freight Cost (8% of Materials)		LS	1	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				4.5
Profit (10% of A, B, C-2)		LS		35,714
Overhead Expense (13% of A, B and C-2)		LS		46,429
VAT (10% of Profit, Overhead Expense and Labor)		LS		16,075
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	on	LS		2,400
2. Supervision		LS	100	15,000
3. Water Quality Analysis		LS		1,400
Sub-Total of E				18,800
			1. 1.	1 1 1 1
Total Estimated Cost		-		1,369,922
			:	
Unit Cost per Person Served			F 4 4.	2,283
SAY				2,300

Note: LS - Lump Sum

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

(Cost: Peso) Q'ty Unit Unit Cost Amount Description 360,000 A. Mobilization/Demobilization LS B. Source Development and Storage 1. Deep Well 2,001,000 2,001,000 No. 2. Deep Well Pump No. 832,000 832,000 3. Chlorinator House & Equipment LS 632,000 632,000 1,300,000 4. Storage Tank (250 cu.m) 1,300,000 No. Sub-Total of B 4,765,000 C. Transmission Main 500 1,320 1. 160mm dia. LM 660,000 Sub-Total of C 660,000 D. Distribution Main 1,320,000 1,000 1,320 1. 160mm dia. LM 1,090 3,270,000 2. 110mm dia. 3,000 LM 2,052,000 3. 90mm dia. 3,000 LM 684 4. 75mm dia. 6,000 LM637 3,822,000 10,464,000 Sub-Total of D E. Service Connections 1,000 Nos. 2,288 2,288,000 F. Miscellaneous 649,000 1. Vehicle No. 649,000 2. Office & Workshop Bldg. 645,000 645,000 No. 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 25,073,750 **Total Estimated Cost** 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: Peso)
Description	Q'ty	Unit	Unit Cost	Amount
A. Mobilization/Demobilization		LS		360,000
B. Source Development and Storage		*		
1. Deep Well	1	No.	2,001,000	2,001,000
2. Deep Well Pump	1	No.	832,000	832,00
3. Chlorinator House & Equipment	1	LS	632,000	632,00
4. Storage Tank (250 cu.m)	1	No.	1,300,000	1,300,000
Sub-Total of B	i	:		4,765,000
C. Transmission Main				
1. 160mm dia.	500	LM	1,320	660,00
Sub-Total of C	:			660,000
				· · · · · · · · · · · · · · · · · · ·
D. Distribution Main				
1. 160mm dia.	2,000		1,320	
2. 110mm dia.	5,000		1,090	5,450,00
3. 90mm dia.	6,000		684	4,104,00
4. 75mm dia.	9,000	LM	637	5,733,00
Sub-Total of D)			17,927,000
	<u> </u>			
E. Service Connections	2,000	Nos.	2,288	4,576,000
F. Miscellaneous				e e
1. Vehicle	1	No.	649,000	
2. Office & Workshop Bldg.	. 1	No.	645,000	
3. Office Equipment	1	LS	118,000	
4. Tools and Spare Parts	1	LS	110,000	[
Sub-Total of I	र			1,522,000
				April Marie Land
				i filozofik sik
Total Direct Cost (A+B+C+D+E+F)		`		29,810,00
	<u> </u>	<u> </u>		
G. Indirect Cost (25% of Direct Cost)	1 ,			7,452,50
			ng sa girin asi	13. 1
		1.		
Total Estimated Cost		1	The second section of the	37,262,50
	1	<u> </u>		
Unit Cost per Person Served				
For New Construction				3,72
	1	<u> </u>	L	3,70
For Expansion of Existing System (Exclude	e F.)			3,53
			Distributed by	3,50

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		360,000
	<u> </u>			
B. Source Development and Storage				
1. Deep Well	2	No.	2,001,000	4,002,000
2. Deep Well Pump	2	No.	832,000	1,664,000
3. Chlorinator House & Equipment	2	LS	632,000	1,264,000
4. Storage Tank (250 cu.m)	2	No.	1,300,000	2,600,000
Sub-Total of B	\$ 			9,530,000
C. Transmission Main				
1. 160mm dia.	1,000	LM	1,320	
Sub-Total of C				1,320,000
	ļ			
D. Distribution Main				
1. 160mm dia.	3,000	1	1,320	
2. 110mm dia.	7,000	1	1,090	7,630,000
3. 90mm dia.	8,000		684	
4. 75mm dia.	10,000	LM	637	6,370,000
Sub-Total of D	1 1			23,432,000
E. Service Connections	3,000	Nos.	2,288	6,864,000
	<u> </u>			
F. Miscellaneous	İ .			
1. Vehicle	l 1	No.	649,000	649,000
2. Office & Workshop Bldg.		No.	645,000	645,000
3. Office Equipment		LS	118,000	118,000
4. Tools and Spare Parts	<u> </u>	LS	110,000	110,000
Sub-Total of F	`			1,522,000
	 			
m. In				42.000.000
Total Direct Cost (A+B+C+D+E+F)				43,028,000
0.1.1.4.0.4.050(-5.7); 4.0.0	 			10 000 000
G. Indirect Cost (25% of Direct Cost)				10,757,000
	 		 	·
The Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Part of the Pa		40 Tu 42		 63 405 000
Total Estimated Cost	A Triving		, .	53,785,000
Tritico and District Control	 			
Unit Cost per Person Served			r deadi. A	2 500
For New Construction				3,586
	L			3,600
For Expansion of Existing System (Exclude	r.)	:	e yang saara	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

	D			T-51-1-2	(Cost: Peso
ļ	Description	Q'ty	Unit	Unit Cost	Amount
A.	Demolition		LS		1,100
	13 41				
В.	Earthwork				
	1. Materials				
	(1) Gravel Fill	1	cu.m	454	454
	Sub-Total of B-1				454
	2. Labor			İ	
	(1) Excavation	6	cu.m	140	840
1	(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 0	
1	(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		454	908
	(7) Stone Lining with Mortar	ے 1	cu.m LS	1,250	4
	Sub-Total of C-1	. 1	Lo	1,230	1,250
,					5,294
	2. Labor (30% of C-1)			 	1,588
-	Sub-Total of C				6,882
D.	Carpentry Work				
	1. Materials			1.0	
	(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	10	333
	(5) 3" dia. Bamboo	3	light	21	63
	(6) Assorted CWN	-	kg	43	172
	(7) Rattan wire	20	pc.	1	20
	Sub-Total of C-1				1,153
2	2. Labor (30% of C-1)	1		i a va il	346
l	Sub-Total of C				1,499
Ê.	Plumbing				
'	1. Materials				to Switter of all
	(1) Water Closet	- 1	set	4,900	4,900
]	(2) Water line and sanitary fixtures	1	LS	1,650	1,650
5,71	Sub-Total of E-1	-	1	2.7	6,550
	2. Labor (30% of E-1)				1,965
	Sub-Total of E				8,515
F.	Transportation Cost	1	LS	540	540
	(excluding indigenous materials)	•	25	J-10	340
G.	Indirect Cost				
٠,	Profit (10% of A - F)	of the trail	1.55	Company of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta	2 026
4. 4.			100	1	2,025
	VAT (10% of Profit & Labor)				718
	Sub-Total of F		1 F 1		2,743
	Total of Construction Cost			0.3	22,993
	(A+B+C+D+E+F+G) LS - Lump Sum			SAY	23,000

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

						(Cost: Peso)
ļ		Description	Q'ty	Unit	Unit Cost	Amount
A.		Earthwork				
	1.	Materials				
		(1) Gravel Fill	1	cu.m	454	454
		Sub-Total of A-1		į		454
	2.	Labor		<u> </u>		
<u> </u>		(1) Excavation	6	cu.m	140	840
		(2) Backfill	2	cu.m	127	254
		(3) Gravel Fill	ī	cu.m	166	166
[Sub-Total of A-2	·		.00	1,266
i -		Sub-Total of A				1,714
В.		Concrete Work	 	 		1,717
	ı	Materials				
	١.	Slab on wood planks				
			120	מנו	0	1.024
		(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
1		(4) Cement	10	bag	137	1,370
		(5) Sand	1.5	çu.m	359	539
		(6) Gravel	2	çu.m	454	908
1		(7) Stone Lining with Mortar	1	LS	1,250	1,250
		Sub-Total of B-1				5,294
	2.	Labor (25% of B-1)				1,323
		Sub-Total of B		[6,617
C.		Carpentry Work				
4.17	1.		1.3-1-1			
		(1) Nipa	60	pc.	2	120
i		(2) 1.5m x 1.8m, amakan	3	pc.	75	225
		(3) 2" x 3" x 10' Coco Lumber	20	bd.ft	ii	220
		(4) 2" x 2" x 10' Coco Lumber	33.3	bd.ft	10	333
· ·		(5) 3" dia. Bamboo	33.3	light	21	63
		(6) Assorted CWN	4		43	172
].				kg		
		(7) Rattan wire	20	pc.	1 202	20
		(8) Pale (medium)		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	1	pint	54	54
1		(12) Ga. 31" x 8' plain GI sheet	1	sheet	214	214
		Sub-Total of C-1		ļ .	1	2,429
	2.	Labor (25% of C-1)		<u> </u>]	607
		Sub-Total of C				3,036
D.		Plumbing				
	l.			1	J. 1884	1 -
		(1) Toilet Bowl-Squat Type	1	pc.	i 220	220
		(2) 75mm dia x 6.0m PVC Pipe	1 × 1	pc.	152	152
		Sub-Total of D-1	-		*	372
	2.	Labor (25% of D-1)				93
	Ξ,	Sub-Total of D				465
E.		Transportation Cost	1	LS	340	340
	٠.,	(excluding indigenous materials)				
F.		Indirect Cost				
[• ·		Profit (10% of A - D)		1 A	Entra Albandari	1,487
25.		VAT (10% of Profit & Labor)		epart to a		477
		Sub-Total of F				1,964
3 (3 , 3)	:	Total Construction Cost	1 1 1	11. 21.25 11. 3. 45.54.55	agretings to the state	14,136
		(A+B+C+D+E+F)			SAY	14,130
<u> </u>		A CATULCIDIDER)			UAI	17,100

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 Earthwork 1. Materials (1) Gravel Fill 0.5 454 cu.m 227 Sub-Total of A-1 227 2. Labor (1) Excavation 3 140 420 cu.m (2) Backfill 127 ĺ cu.m 127 (3) Gravel Fill 0.5 cu.m 166 83 Sub-Total of A-2 630 Sub-Total of A 857 Concrete Work 1. Materials Slab on wood planks (1) 2" x 8" x 6' Coco Lumber bd.ft 64 8 512 (2) 10mm dia x 6.0m Rebar DĆ. 58 116 (3) #16 Tie Wire 0.5 kg 58 29 (4) Cement bag 4 137 548 (5) Sand 0.5 359 çu.m 180 (6) Gravel 0.5 454 cu.m 227 (7) Stone Lining with Mortar ,200 LS 1,200 Sub-total of B-1 2,812 2. Labor (25% of B-1) 703 Sub-Total of B 3,515 C. Carpentry Work 1. Materials (1) Nipa 60 2 pc. 120 (2) 1.5m x 1.8m, amakan 75 3 pc. 225 (3) 2" x 3" x 10' Coco Lumber (4) 2" x 2" x 10' Coco Lumber 20 bd.ft 11 220 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 p¢. 1 20 (8) 3" x 3" hinges 32 64 pc. Sub-Total of C-1 1,217 2. Labor (25% of C-1) 304 Sub-Total of C 1,521 D. Plumbing 1. Material (1) 50mm dia. PVC Pipe 76 76 1 pc. (2) Fly Screen pc. 59 59 Sub-Total of D-1 135 2. Labor (25% of D-1) 41 Sub-Total of D 176 Transportation Cost 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 854 **Total Construction Cost** 7,093 (A+B+C+D+E+F)

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

					(Cost: Peso)
	Description	Q'ty	Unit	Unit Cost	Amount
٨.	Earthwork		ľ		
1. 3	Materials	1	ļ		
. ((1) Gravel Fill	0.3	cu.m	454	136
	Sub-Total of A-1				136
2.	Labor				
	(1) Excavation	2	cu.m	140	280
	(2) Backfill	0.6	çu.m	127	76
	(3) Gravel Fill	0.3	cu.m	166	50
	Sub-Total of A-2			ľ	406
•	Sub-Total of A				542
В.	Concrete Work				
	Materials			* .	
	Slab on wood planks			·	•
	(1) 2" x 8" x 6' Coco Lumber	38	bd.ft	8	304
	(2) 10mm dia x 6.0m Rebar	1	pc.	58	58
	(3) #16 Tie Wire	0.5	kg.	58	29
	(4) Cement	3	bag	137	411
	` '	0.3	cu.m	359	108
	(5) Sand	0.3	cu.m	454	136
	(6) Gravel	1	LS	700	700
	(7) Stone Lining with Mortar Sub-total of B-1		Lo	700	1,746
					436
2.	Labor (25% of B-1) Sub-Total of B				2,182
					<u> </u>
	Carpentry Work				•
ł	Materials	30	pc.	2	60
	(1) Nipa	3	pc.	75	225
	(2) 1.0m x 1.8m, amakan	14	bd.ft	11	154
	(3) 2" x 3" x 10' Coco Lumber	24	bd.ft	10	240
	(4) 2" x 2" x 10' Coco Lumber		1	21	63
	(5) 3" dia. Bamboo	3	light	43	129
	(6) Assorted CWN	3	kg	43	14
	(7) Rattan wire	14	pc.	i .	64
	(8) 3" x 3" hinges	2	pc.	32	949
	Sub-Total of C-1				
2.	Labor (25% of C-1)				237
	Sub-Total of C			100	1,186
D.	Transportation Cost	1	LS	170	170
	(excluding indigenous materials)		ļ		
E.	Indirect Cost	1		Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sept. 1. Sep	
	Profit (10% of A -D)		La sale		391
	VAT (10% of Profit & Labor)				164
	Sub-Total of E	1			555
	Total Construction Cost			1 1 1 1 1 1 1 1 1 1	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 (Cost: Peso)

	1 0					(Cost: Peso)
		Description	Q'ty	Unit	Unit Cost	Amount
A.		Mobilization and Demobilization		LS		6,000
B.		Earthwork				
	1.	Materials				
		(1) Gravel Fill	3	cu.m	454	1,362
		Sub-Total of B-1	•			1,362
	2	Labor				.,,,,,,
	Z.	(1) Excavation	16	cu.m	140	2,240
			5		140	635
		(2) Backfill		cu.m	166	
		(3) Gravel Fill	3	cu.m	100	498
		Sub-Total of B-2				3,373
		Sub-Total of B				4,735
C.		Concrete Work				
	1.	Materials			* *	
		(1) Cement	61	bags	137	8,357
		(2) Sand	4	cu.m	. 359	1,436
		(3) Gravel	8	cu.m	454	3,632
		(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:	·	Q -		,
l		1/4" Plywood	6	pcs.	477	2,862
		2" x 2" x 10', Coco Lumber	200	bd.ft.	10	2,000
		•	200	ou.it.	10	25,059
	•	Sub-Total of C-1		LS		
ŀ	2.	Labor (30% of C-1)		Lo		7,518
		Sub-Total of C			-	32,577
D.		Masonry Work				je je
	1.	Materials	000			
ĺ		(1) 6" CHB	800	pcs.	6	4,800
		(2) 4" CHB	260	pes.	5	1,300
		(3) Cement	97	bags	137	13,289
		(5) Sand	10	cu.m	359	3,590
		(6) Rebars: 12mm dia x 6m	30	pcs.	79	2,370
		10mm dia x 6m	11	pcs.	58	638
		(7) #16 Tie Wire	4	kg.	58	232
		(8) Scaffolding:				
		2" x 4" x 8' x 10pcs., Coco Lumber	53	bf.	8	424
		Sub-Total of D-1				26,643
ļ	2.	Labor (30% of D-1)		LS		7,993
		Sub-Total of D				34,636
Ē.		Roofing Work		 		3.,000
	í	Materials] :	. 17. * 2.	in 1
l	1.	(1) GA #26 Corr. GI (1 = 10')	20	l nee	310	6,200
				pes.		\$
		(2) GA #24 Pln. GI Flashing	3	pcs.	300	900
		(3) GA #24 Pln. GI Gutter (Pre-Fab)	9	pcs.	300	2,700
		(4) Umbrella Nails 2-1/2"	12	kg.	50	600
		(5) Rafter - $2'' \times 5'' \times 18' = 5$ pcs.	75	bf.	35	2,625
		(6) Purlins - $2'' \times 2'' \times 12' = 18$ pcs.	72	bf.	35	2,520
		(7) WD Cleats - $2'' \times 2'' \times 10'' = 6$ pcs.	20	bf.	35	700
l		(8) Nailers - $2'' \times 2'' \times 12' = 30$ pcs.	120	bf.	35	4,200
•		$-2'' \times 2'' \times 10' = 36$ pcs.	120	bf.	35	4,200
						

Table 10.2.16 Unit Cost of School Toilet

Sheet 2 of 5	(Cost: Peso)

Description	T (2)4	1 1124	T III-le Care	(Cost: Peso
Description (0) France Production	Q'ty	Unit	Unit Cost	Amount
(9) Fascia Board		1		
$1'' \times 12'' \times 12! = 4 \text{pcs.}$	48	bf.	35	1,680
$1'' \times 12'' \times 18' = 2pcs.$	36	bf.	34	1,224
(10) Wood Plate	Ì			ļ
$2'' \times 4'' \times 20' = 2pcs$.	27	bf.	34	918
(11) 1/4" Thk. Mar. Plywood 4'x8'	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	pcs.	70	140
(15) 3" dia Coupling (PVC)	1	pes.	26	26
(16) Ceiling Vent				
$1'' \times 1'' \times 8' = 4pcs.$	3	bf.	29	87
(17) Screen (1/8" x 1/8")	1	yd.	91	91
Sub-Total of E-1	1 1	'	7.	30,177
2. Labor (30% of E-1)		LS		9,053
Sub-Total of E	 -	1		{
F. Carpentry Work	 	 		39,230
1. Materials				[
	[[
(1) D - 1 Hollow Core Tanguile	_			
Flush Type Door w/ Louver (.80x2.20)	2	sets	1,620	3,240
(2) D - 2 Hollow Core Tanguile				
Flush Type Door (.60x2.10)	1	sets	1,216	1,216
(3) D - 3 Louver Door (.60x1.40)	5	sets	1,013	5,065
(4) Door Jambs (Apitong)			\$ 1 a 4 a	
$2'' \times 6'' \times 14'' = 1pc.$	14	bf.	37	518
$2^{n} \times 6^{n} \times 10^{n} = 2 \text{pcs}.$	20	bf.	36	720
$2'' \times 6'' \times 10'' = 1$ pc.	18	bf.	35	630
$2'' \times 4'' \times 12'' = 5pcs.$	40	bf.	. 34	1,360
(7) Wooden Jalousie Window			4.1	
With 5 Blades (.40x.50)	14	set	338	4,732
(8) Window Jambs (Apitong)			_ * * * * * * * * * * * * * * * * * * *	
$2'' \times 6'' \times 16'' = 5 \text{pcs.}$	80	bf.	36	2,880
$2'' \times 6'' \times 14'' = 1pc.$. 14	bf.	35	490
2" x 6" x 10" = 1pc.	10	bf.	34	340
(9) Cabinet		""		340
$3/4'' \times 4' \times 8' = 1pc.$ (plyboard)	1	ne	878	878
Sub-Total of F-1		pc.	0,0	22,069
2. Labor (30% of F-1)		LS		
Sub-Total of F		r ₂		6,621
G. Tile Work				28,690
1. Materials	1 0 0			
(1) 4-1/4" x 4-1/4", Glazed Tiles	1,950	pcs.	5	9,750
(2) 0.10m x 0.20m, Floor Tiles	900	pcs.	1	6,300
(3) Cement	4	bags	137	548
(4) White Cement	1	bag	742	742
Sub-Total of G-1			Table Hill Barrier	17,340
2. Labor (30% of G-1)		LS	<u> Jaw</u> Habay	5,202
Sub-Total of G			art at a agreement	22,542
	7:	V I H KA	(Suid Addition)	

Table 10.2.16 Unit Cost of School Toilet

Sheet 3 of 5 (Cost: Peso)

Sheet 3 o						st: Peso)
	Description	Q'ty	Unit ·	Unit Cost	Am	ount
ł,	Plumbing Work					
l.	Materials					
	(1) Toilet Bowl - Squat Type	3	sets	703		2,109
	(2) Toilet Bowl - Sit Type	2	sets	703		1,406
	(3) Lavatory	2	sets	3,300		6,600
	(4) 4" dia x 3m PVC San. Pipe	4	pcs.	175		700
	(5) 3" dia x 3m PVC San. Pipe	7	pcs.	98		686
	(6) 1-1/2" dia x 3m, PVC San. Pipe	4	pcs.	59		236
	(7) 2" dia. x 3m, PVC San. Pipe	4	pcs.	62		248
	(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	1 1	385
	Sub-Total of H-1		pes.			14,865
١,	Labor (30% of H-1)		LS		1	4,460
- ~	Sub-Total of H		1.0			19,325
	Painting				<u> </u>	15,010
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	gais.	310		1,860
	(5) Wood Putty	Ĭ	gals.	342		342
		;	gals.	67		67
	(6) Paint Thinner	4	pint	45		180
	(7) Tinting Color	15		8		120
	(8) Sand Paper (Assorted)	13	pcs. LS	1,200		1,200
	(9) Miscellaneous		1	319	1	638
	(10) Roof Paint (green, ready-mix)	2	gals.	319		
	Sub-Total of I-1	: -	1.0	1 3 16 15	314	8,499
2	Labor (30% of I-1)		LS			2,550
	Sub-Total of I				_	11,049
J.	Electrical Work		f entre.		\$1.5	
1	. Materials		l .	200	(3)	670
	(1) 40 Watts Fluorescent Lamp	2	sets	289	3.5	578
	(2) Elect. Wire TW #12	a. ja (24	M	7		168
· .	(3) Elect. Conduit - 1/2" dia x 10"	4	pcs.	88		352
1 1	(4) Entrance Cap. 1/2" dia	1 , , , , 1 ,	pc.	32		32
	(5) Switch Outlet, Flush Type	2	pcs.	44		88
	(6) Utility Box 2"x3"	2	pcs.	12	<u> </u>	24

Table 10.2.16 Unit Cost of School Toilet

Sheet 4 of 5 (Cost: Peso)

Sheet 4 of 5			1 11 1. 6	
Description	Q'ty	Unit	Unit Cost	Amount
(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)		LS		551
Sub-Total of J		******	***	2,387
K. Hardware				
1. Materials				
(1) 3" x 3" Butt Hinges (Loose Pin)	10	pcs.	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	,	pcs.	·]
Checkered Plate 1/4" thick				İ
l :			1 116	1 116
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	: ::			5,645
2. Labor (30% of K-1)		LS		1,694
Sub-Total of K				7,339
L. Septic Tank and Sewage Basin				
1. Materials			17	
(1) 4" CHB	180	pcs.	5.	900
(2) Cement	. 18	bags	137	2,466
(3) Sand	2	cu.m	359	718
(4) Gravel	1	cu.m	454	454
(5) Rebars: 10mm dia x 6m	29	pcs.	58	1,682
(6) #16 Tie Wire	2	kg	- 58	116
(7) Formworks: Coco Lumber	, ,			
$2'' \times 3'' \times 10' = 12pcs$.	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		V		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				1
Steel Casing/Screen				
1. Materials				1
(1) 63mm x 6m PVC Pipe with socket	2	pcs.	912	1,824
(2) 63mm x 3m PVC Pipe with plug	1	pcs.	452	452
(3) 63mm PVC Socket	1	I -	12	12
	1	pc.	1,443	1,443
(4) 63mm x 3m PVC Screen		pc.	1,443	4
Sub-Total of M-a-1				3,731
2. Labor, Fuel, Lubricant and others				
Well Drilling for 18m depth at				50.00
150mm borehole	18	111	1,600	28,800
Sub-Total of M-a				32,531
b. Well Development	1_	LS	600	600

Table 10.2.16 Unit Cost of School Toilet

Sheet 5 of 5 (Cost: Peso)

Sheet 5 o					(Cost: Peso
	Description	Q'ty	Unit	Unit Cost	Amount
М. с.	Gravel Packing, Installation of Hand-		·		
	Pump and Construction of Platform				
1.	Materials		ļ	1	
	(1) 50mm Jetmatic Handpump	1	set	2,807	2,807
	(2) 50mm x 1m GI Pipe (Sch. 40)	1	pc.	118	118
A	(3) #10 Sieved Gravel	0.1	cu.m	1,026	103
	(4) Coarse Sand	0.07	cu.m	359	25
	(5) Cement for Sanitary Seal	ì	bag	127	127
	(6) Pump Base and Platform				
1.1	1) Cement	4	bags	127	508
	2) Gravel	1	cu.m	454	454
	3) Sand	1	cu.m	359	359
	4) Plywood (1,200mm x 2,400mm x 6mm)	1	pc.	294	294
	5) Form Lumber (50mmx75mmx1,800mm	1	pc.	52	52
	6) Nail	1	kg.	40	40
	Sub-Total of M-c-1		Ŧ		4,887
2.	Labor (40% of M-c-1)		LS		1,955
	Sub-Total of M-c				6,842
* * .	Sub-Total of M				39,973
N.	Freight Cost (8% of Materials for A - M		LS		13,121
	excluding sand and gravel)				
O.	Indirect Cost		14-4		1: 1
	Profit (10% of A - N)		,		27,205
	VAT (10% of Profit & Labor)			1 1	8,059
	Sub-Total of O			1 1	35,264
4.	Total of Construction Cost			1	307,315
	(A to O)			·	- 4
Ρ.	Estimated Government Expenses				
1.	Preliminary & Detailed Engineering Cost	1	LS	2,400	2,400
	Construction Supervision	1	LS	1,800	1,800
	Sub-Total of P			1	4,200
· · · · · · ·	GRAND TOTAL				311,515
				SAY	311,500

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 Lof 5 (Cost: Peso) Description Unit Cost Q'ty Unit Amount Mobilization and Demobilization LS 7,000 (2.4% of B - M) B. Earthwork 1. Materials (1) Gravel Fill 3 454 cu.m 1,362 Sub-Total of B-1 1,362 2. Labor (1) Excavation 15.88 140 2,223 çu.m (2) Backfill 4.97 127 cu.m 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 bags 137 8,357 (2) Sand 4 359 cu.m 1,436 (3) Gravel 8 çu.m 454 3,632 (4) Rebars: 12mm dia x 6m 38 79 3,002 pcs. 10mm dia x 6m 57 pcs. 58 3,306 (5) #16 Tie Wire 8 58 464 kg. (6) Formworks: 1/4" Plywood 477 2,862 6 pcs. 2" x 2" x 10" (Coco Lumber) 2.000 200 bd.ft. 10 Sub-Total of C-1 25,059 7,518 Labor (30% of C-1) Sub-Total of C 32,577 Masonry Work D. 1. Materials (1) 6" CHB 800 4.800 pcs. (2) 4" CHB 260 pes. 1,300 (3) Cement 97 bags 13,289 137 (5) Sand 10 cu m 359 3,590 (6) Rebars: 12mm dia x 6m 30 79 2,370 pes. 10mm dia x 6m 638 11 pcs. 58 (7) #16 Tie Wire 4 58 232 kg. (8) Scaffolding: $2'' \times 4'' \times 8'' = 10$ pcs. (Coco Lumber) 53.33 bf. 427 Sub-Total of D-1 26,646 2. Labor (30% of D-1) 7,994 Sub-Total of D 34,640 E. Roofing Work 1. Materials (1) GA # 26 Com. GI (1 = 10')20 pcs. 310 6.200 (2) GA #24 Pln. GI Flashing 900 300 pcs. 2,700 (3) GA #24 Pln. Gl Gutter (Pre-Fab) 9 300 pcs. (4) Umbrella Nails 2-1/2" 12 50 600 kg. (5) Rafter - 2" \times 5" \times 18' = 5pcs. 35 2,625 75 bf. (6) Purlins - 2" x 2" x 12' = 18pcs.
(7) WD Cleats - 2" x 2" x 10" = 6pcs. 72 bf. 2.520 35 bf. 700

heet 2 of 5				(COST. PESO,
Description	Q'ty	Unit	Unit Cost	Amount
(8) Nailers - 2" x 2" x 12' = 30pcs.	120	bf.	35	4,200
$-2^{\prime\prime} \times 2^{\prime\prime} \times 10^{\prime} = 36$ pcs.	120	bf.	35	4,200
(9) Fascia Board		*		
$1'' \times 12'' \times 12' = 4$ pcs.	48	bf.	35	1,680
	36	bf.	34	1,224
$1'' \times 12'' \times 18' = 2pcs.$	30	01.	77	1,22
(10) Wood Plate	26.66	LC	2.4	900
$2^{n} \times 4^{n} \times 20^{t} = 2pcs.$	26.66	bf.	34	
(11) 1/4" Thk. Mar. Plywood 4' x 8'	14	pes.	32	449
(12) C.W.N. Assorted	15	kg.	43	64:
(13) 3" dia x 3m Downspout (PVC)	3	pcs.	91	27.
(14) 3" dia Elbow (PVC)	2	pcs.	70	14
(15) 3"dia Coupling (PVC)	1	pcs.	26	2
(16) Ceiling Vent, 1" x 1" x 8' x 4pcs.	2.67	bf.	29	7
(17) Screen (1/8" x 1/8")	1	yd.	91	9
Sub-Total of E-1		_		30,15
2. Labor (30% of E-1)				9,04
Sub-Total of E	1			39,20
Carpentry Work	<u> </u>			
1. Materials				
(1) D - 1 Hollow Core Tanguile	ا م	note	1,620	3,24
Flush Type Door w/ Louver (0.80 x 2.2	2	sets	1,020	3,24
(2) D - 2 Hollow Core Tanguile				1.21
Flush Type Door (0.60 x 2.10)	1	sets	1,216	1,21
(3) D - 3 Louver Door (0.60 x 1.40)	5	sets	1,013	5,06
(4) Door Jambs (Apitong)			4	
$2'' \times 6'' \times 14'' = 1$ pc.	14	bf.	37	51
$2^{n} \times 6^{n} \times 10^{n} = 2 pcs.$	20	bf.	36	72
$2'' \times 6'' \times 10'' = 1$ pc.	18	bf.	35	63
$2'' \times 4'' \times 12'' = 5pcs.$	40	bf.	34	1,36
(7) Wooden Jalousie Window			* * * *	
With 5 Blades (0.40 x 0.50)	14	set	338	4,7
(8) Window Jambs (Apitong)	1-7			""
	80	bf.	36	2,88
2" x 6" x 16" = 5pcs.	1			
$2'' \times 6'' \times 14'' = 1pc.$	14	bf.	35	
$2'' \times 6'' \times 10'' = 1$ pc.	10	bf.	34	- 34
(9) Cabinet			1994 N. Jan.	
3/4" x 4' x 8' = 1pc. (plyboard)	1,	pc.	878	8
Sub-Total of F-	1			22,0
2. Labor (30% of F-1)	1	<u> </u>		6,6
Sub-Total of	R			28,6
G. Tile Work				1.4
1. Materials			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Back Tal
(1) 4-1/4" x 4-1/4" Glazed Tiles	1,950	pcs.	5	9,7
(2) 0.10 x 0.20m Floor Tiles	900	pcs.	7	6,30
(3) Cement	4	bags	137	1000
	1	bag	742	1 - 2 -
(4) White Cement	'	_		5,6
(5) Tiles Fittings		LS		22,9
Sub-Total of G-	1		10.00	The second second second
2. Labor (30% of G-1)				6,8
Sub-Total of	ات			29,8

Table 10.2.17 Unit Cost of Public Toilet

Sheet 3 of 5 (Cost: Peso)

Sheet 3 of 5 Description	Q'ty	Unit	Unit Cost	(Cost: Peso) Amount
H. Plumbing Work	<u> </u>			
1. Materials				
(1) Urinal	3	sets	1,253	3,759
(2) Toilet Bowl - Squat Type	6	sets	703	4,218
(3) 4" dia x 3m PVC San. Pipe	6	pes.	175	
(4) 3" dia x 3m PVC San. Pipe	4	pcs.	98	
(5) 2" dia x 3m PVC San. Pipe	3	pes.	62	
(6) 3/4" dia x 6m GI Pipe Sch. 40	5	pes.	288	
(7) 1/2" dia x 6m GI Pipe Sch. 40	1	pes.	213	
(8) 4" x 4" WYE PVC	1	pcs.	38	1
(9) 3" dia Elbow PVC	10	pes.	70	1
(10) 3" dia 45 degrees Bend PVC	2	pcs.	85	
(11) 2" dia Elbow PVC	6	pes.	53	
(12) 2" dia 45 degrees Bend PVC	2	pcs.	68	1
(13) 1/2" dia Elbow GI	5	pcs.	40	1
(14) 4" dia 3" dia WYE PVC	8	pcs.	52	
(14) 4 dia 3 dia WTETVC (15) 3/4" dia TEE GI	7		70	
(15) 3/4 dia TEE GI (16) 1/2" dia TEE GI	. 5	pcs.	55	
B * *	6	pcs.	36	Į.
(17) 4" dia x 2" dia TEE PVC	3	pcs.	41	123
(18) 4" dia Clean Out PVC	_	pcs.		i
(19) 2" dia Clean Out PVC	10	pcs.	29 59	ſ
(20) Faucet	10	pcs.	B .	
(21) 3" dia x 2" dia Elbow Reducer PVC	1	pcs.	85	
(22) 3" dia x 2" dia WYE PVC	3	pcs.	29	87
(23) 2" dia x 2" dia WYE PVC	3	pcs.	17	51
(24) PVC Cement	1	can	142	
(25) 4" dia x 2" dia WYE PVC	2	pcs.	47	94
(26) Gate Valve 3/4" dia	1	pcs.	142	1
(27) Gate Valve 1/2" dia	: · I	pcs.	112	112
(28) Water Meter 3/4" dia	1	pcs.	1,488	
(29) 3/4"dia x1/2"dia Elbow Reducer GI	1	pcs.	21	21
Sub-Total of H-1				17,181
2. Labor (30% of H-1)				5,154
Sub-Total of H				22,335
I. Painting				
1. Materials				2.260
(1) Acrylic, Semi Gloss	- 8	gals.	295	2,360
(2) Concrete Sealer	4	gais.	233	932
(3) Acri Color: Wood	4	gals.	200	800
(4) Enamel, QDE	6	gals.	310	1,860
(5) Wood Putty	l	gals.	342	342
(6) Paint Thinner		gals.	67	67
(7) Tinting Color	4	pint	45	180
(8) Sand Paper (Assorted)	15	pcs.	8	120
(9) Miscellaneous	ry dady.	LS	14 6 2	1,200
(10) Roof Paint (green, ready-mix)	2	gals.	319	638
Sub-Total of I-1			el comi	8,499
2. Labor (30% of 1-1)				2,550
Sub-Total of I		<u> </u>		11,049

Table 10.2.17 Unit Cost of Public Toilet

Sheet 4 of 5 (Cost: Peso)

neet 4 o	Description	Q'ty	Unit	Unit Cost	Amount
	Electrical Work				
	Materials				
4.	(1) 40 Watts Fluorescent Lamp	2	sets	289	57
	(2) Elect. Wire TW #12	24	m	7	16
	(3) Elect. Conduit - 1/2" dia x 10"	4	pes.	88	35
		1	•	32	3
	(4) Entrance Cap. 1/2" dia	2	pe.	44	8
	(5) Switch Outlet, Flush Type	2	pcs.	12	2
	(6) Utility Box 2" x 3"		pcs.	12	1
	(7) Porcelain Receptacle 2" dia	2	pes.	555	55
	(8) Safety Switch 60A, 250V	1	set		
	(9) Electrical Tape	1	roll	25	2
	Sub-Total of J-1				1,83
2.	Labor (30% of J-1)				55
	Sub-Total of J				2,38
•	Hardware				
1.	Materials				
	(1) 3" x 3" Butt Hinges (Loose Pin)	10	pcs.	20	20
	(2) 4" x 4" Butt Hinges (Loose Pin)	12	pcs.	36	43
	(3) Door Lockset (Schlage US)	3	pcs.	650	1,95
	(4) Barrel Bolt (4")	5	pcs.	45	. 22
	(5) Cabinet Pull (4")	5	pcs.	7	3
	(6) Water Storage Cover				•
	Checkered Plate 1/4" thick				100
	1.44x0.633 w/ L bar & flat bar	1	sét	1,116	1,11
	(7) 0.645x0.633 w/ L bar & flat bar	2	set	629	1,25
	(8) Padlock	1	pcs.	429	42
	Sub-Total of K-1				5,64
. 2	. Labor (30% of K-1)				1,69
	Sub-Total of K				7,33
	Septic Tank and Sewage Basin				
	. Materials				
•	(1) 4" CHB	180	pcs.	5	90
	(2) Cement	18	bags	137	2,46
	(3) Sand	1.50		359	
	(4) Gravel	1	cu.m	454	
	(5) Rebars: 10mm dia x 6m	29	pcs.	58	1,68
	(6) #16 Tire Wire	2	kg.	58	1
	(7) Formworks: Coco Lumber				
	$2'' \times 3'' \times 10' = 12$ pcs.	60	bf.	11	60
	2 x 3 x 10 = 12pcs. 1/4" plywood ord. 4' x 8'	2	pcs.	477	
		2	kg.	43	1
	C.W.N. (Assorted) Sub-Total of L-1	1	Λg.	1	7,8
					2,3
2	2. Labor (30% of L-1)	ļ		.	10,2
	Sub-Total of L	'	 	1	10,2
1.	Concrete Water Tank (Elevated)				
1	I. Earth Work				
	(1) Materials				
	1) Gravel Fill] 1	cu.m	454	
14,3,1	Sub-Total of M-1 (1)			4

Table 10.2.17 Unit Cost of Public Toilet

Sheet-5

ORCE-5			7	(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		359	
(3) Gravel	8	cu.m	454	
(4) Rebars: 12mm dia x 6m	160	. pcs.	79	
(5) #16 Tie Wire	. 4	kg.	58	
(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			1	69,196
N. Freight Cost (8% of Materials for A - M	:			16,234
excluding sand and gravel)			1: ., .	
O. Indirect Cost				
Profit (10% of A - M)				31,546
VAT (10% of Profit & Labor)				10,413
Sub-Total of O	<u>-</u>			41,959
Total of Construction Cost				357,424
(A to O)	j			
P. Estimated Government Expenses				1.1
1. Preliminary & Detailed Engineering Cost		LS		2,400
2. Construction Supervision	24 A	LS		1,800
Sub-Total of P				4,200
AND TOTAL OF STATES				361,624
Note: LS - Lump Sum			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 Om	i omi cost i	<u> </u>	Amount
1. Building	,	4	أحما	0.5.5.00
New Building	m ²	15,000	57	855,000
2. Instruments		•		
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	şet	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	1.		
Working table	LS	· .		
Shelf	LS			
Office desk	LS			
Chair	LS	1 14 1 1		
Sub-total	**			65,000
4. Glassware/Chemicals				
Glassware/Chemicals	LS		4.5	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)

		(031. 1030)		
Item	Unit	Unit Cost	Q'ty	Amount
1. Instruments				
Turbidity meter	set	37,500	1	37,500
Color meter	set	10,500	1	10,500
pH/Residual chlorine checker	set	16,000	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 \$4250 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 I (2005)

								,		Ď	Unit: P 1,000
のできる。 1 日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	Urban				Rura	Rural Water Supply	ıpply	-			
	Water			,	New System				,		
Name of Municipality	Sumply				eJ.	Level I			Level 1	i	Grand
	Y ATT	Level II		Deep Well		Shallow	Spring		Rehabili-	Total	Total
	Level 111	-	40 m	ш 08	120 m	Well	Dev.	Subtotal	tation		
Anini-y See See See See See See See See See Se	505		3,960			422	1,475	5.857	88	5 943	6 448
Barbaza	1,885		2,520			506	1.475	4.501	55	4 556	6 441
Belison	3,162				Ξ.		738	738		738	3 800
Bugasong	4,169		4,680			927	738	6.345	102	6.447	10.616
Caluya			,			169	1,475	1.644		748	1644
Culasi	2,961		5,040			1,939	1.475	8.454	110	8 564	11 525
Hamtic	2,359		2,160			169	738	3.066	47	3,113	5.473
Laua-an	2,341		1,080		:	253	738	2.071	24	2.094	4.435
Libertad	1,637		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			253	1,475	1.728		1.728	3.365
Pandam			5,400			2,360	738	8.498	118	8 616	8.616
Patnongon						2,866	738	3,604		3,604	6.335
San Jose de Buenavista (Capital	18,281					28		8		8	18 365
San Remigio	760		2,880			3,794	1,475	8,149	63	8.211	8.971
Sebaste			1,800			843	1,475	4,118	39	4,157	4,157
Sibalom	4,907		2,520				1,475	3,995	55	4,050	8,957
Libiao			2,160				1,475	3.635	47	3,682	3,682
Lobias Formier			5,760			1,855	1,475	9,090	125	9,215	9.215
Valderrama	2,285		720		3	,	1,475	2,195	16	2.211	4.496
Provincial Total (w/ ADB Assisted Project)	47,982		40,680			16,439	20,653	177,77	988	78,657	126,639
Provincial Total (PW4SP)	47,982										47 982
											11.70

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

	1				Rural Water Supply	er Supply				
	Urban			New System	ystem			I lava I		Crand
Name of Municipality	Water			Level I	el I			Pehabili	Total	Total
	Supply		Deep Well		Shallow	Spring	Subtotal	totion	1 O Y	
	Level III	40 m	80 m	120 m	Well	Dev.		14404		
A mini-v	4.061	31.680			7,418		39,098	069	39,788	43,849
Barbaza	11.886	15.840			8,430		24,270	345	24,615	36,501
Belison	19,062	7,920			2,613		10,533	172	10,706	29,768
Bugasong	12,098	10,080			9,104		19,184	220	19,404	31,502
Caliva	25.734				9,357		9,357		9,357	35,091
Culasi	3.502	7.920			7,250		15,170	172	15.342	18,844
Hamtic	12.577	87,120			2,192		89,312	1.897	91,209	103,786
Tananan	17,437	7.920			7,334		15.254	172	15,427	32,864
Tibertad	13.052	5,760			11,381		17,141	125	17,266	30,318
Dandan	3.065									3,065
Patrongon	14.081	39.960			3,962		43,922	870	44,792	58,874
San Jose de Buenavista (Cap	122,007	5,400					5,400	118	5,518	127,524
San Remigio	5,795				2,276		3,356	24	3,380	9,175
Sebaste	29,268									29.268
Sibalom	20.238	49,680			17,282		66,962	1,082	68,043	88,282
Tibiao	16.947	1.800			3,794		5,594	36	5,633	22,580
Tobias Fornier	4.774	29,160			759		29,919	589	30,554	35.327
Valderrama	17,409	4,680			9,104		13,784	102	13,886	31,295
Provincial Total	352,992	306,000			102,256		408,256	6,664	414,920	767,911

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

				Urba	van Sanitation	uc.							Rural Sanitation	nitation			
		Ho	Household Toilets	ilets					Total		Hoe	Household Toilets	lets				T.0421
				Sub-total	Sub-total	Public	D. M. II.	Total	Public				Sub-total	Sub-total	Public	Yotal	Public
Name of Municipality	Flure h	Pour	VIP/Day	of Cons-	of Public	School	Toiler	traction	Invest-	G	Pour	VIQ.D.	of Cons-	of Public	School	truction	Invest
		Flush	<u> </u>	truction	Invest-	Tollets		Cost	Den Cost		Flush	217/214	truction	Invest-	Toilets	Cost	Cost
Aniniav	276	183	O.S				chr	871	76Δ	1 055	018.4	2 719	11 485	ž	1 868	12 352	1 074
Barbaza	1.242	1.227		2	6.	234	1.085	3 787	1 337	2 392	12.620	1 63	16.943	161	1.868	18.81	2 065
Belison	3,128	451		3.579	_		1,085	4 664	1.092	1,426	2,383		3.809	37		3,809	3
Bugasong	4.301	4.780		180.6	75	701	723	10,505	1,498	2,277	24,069	284	7	375	2,102	28,731	2.477
Caluya		3.046	212	3,763	84	701	362	4,825	1.0		5.950	2,954		93	1,40	10,305	1.494
Culasi	3,565	95		3,621		467	362	4,450	829		28.412	497	28,909	443	2,569	31.477	3.01
Hamtic	1,150	656	121	2,230	15	467	362	3.058	448	5,865	16.046	1,583	23.494	250	3.970	27,464	4,220
Laua-an	2,484	1,72,6	270		SI	467		6,492	518	4.117	8.827		12,944	138	2,102	15.045	2,239
Libertad	1,541	656		2,677	15		1.085	3.762	1.100	2.944	12.803		15.747	2002	1,635	17,381	1,834
Pandan		162'1		1,791	28	467	362	2.619	857		3.187	2,755		92	2.569	8.510	2,618
Patnongon	2,714			2,982	4	934	362	4.278	1,300	3,703	9.941		13,64	155	4.670	18,314	4.82
San Jose de Buenavista (Capita	9.292	16,145		25,437	252	3,269	1.085	29.790	4,606		324		324	15	234	858	239
San Remigio	897	747		1,644	12		1.085	2,729	1.096		22,363	753	23,115	349	2,802	25.917	3,151
Sebaste	3,105			3,105			1,085	4,190	1,085	437	423		098	7		1098	
Sibalom	5.267	127		5,394	2	934	362	069.9	1.298	8.556	13,310		998.12	208	4,904	26.770	5.11
Tibiao	621	874	36	1,531	14	467	362	2,359	842	3,013	1.889	1,619	125.9	52	1,401	7.922	1,430
Tobias Fornier	2,116	2,524		4,640	39		1,085	5,725	1,124	460			097			460	
Valderrama	2,553	776	270	3.598	12	467	362	4,427	841	2.898	9,814		12,712	153	1,401	14,113	1.554
Provincial Total (w/ ADB Assisted Project)	44.252	38,183	1,640	84,075	969	9.574	11.571	105,220	21,740	40,043	179,169	15,095	234,306	2,795	35.492	269,798	38.287
Provincial Total (PW4SP)	44,252	38,183	1,640	84,075	965	9,574	10.486	104.135	21,740	40,043	176,067	15,095	231,204	2.234	34.558	265.762	36.792
With the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	Commence.	TOTAL PROPERTY.			Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Con	-										ı	

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

				Andrews of the second second second					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									JW JW.
					Croan Sa	IN SAMICATION				-				Kural Sanitation	nitation			_
-		Ř	Household Toilets	ilets								Hou	Household Toilets	lets			-	
Name of			· ·		Sub-total	Public	Public	Total Contra	Total	1)rhan				Sub-total :	Sub-total	Public	Total	Total
Municipality	Flush	Pour	VIP/Drv	•	of Public	School	Toilets	truction		Sewerage	Flush	Pour	VIP/Dry	···	of Public	School	frietion	rugiic Inver-
		Flush	•	Cost	Invest- ment	loilets		Ç				Flush		truction Cost	Invest- ment	Toilets	-	ment Cost
Anjni-y	2.208			2.208			362	2.570	362			31,739		31,739	495	6,305	38.044	6.800
Barbaza	8.280			8.280		467	362	6 100	829		7.337	16,624		23,961	259	5.37!	29 331	\$ 630
Belison	13,294			13.294	100		362	13,656	362			9.292		9.292	145	2,102	11 393	2.246
Bugasong	18,492			18,492			362	18.854	362		9,108	20,868		29,976	326	6.305	36,281	6.630
Caluya	16,675	-		16,675		701		17,376	701			19,726		19.726	308	4.203	23,929	4.511
Culasi	12.857			12.857		467	362	13,686	829		7,912	22,250		30.162	347	7.706	37.867	8.053
Hamric	10.557			10,557		234		10.791	234		7,199	38.056		45,255	594	11.442	56,696	12,035
Lauran	9,131			9.131		234	362	9.726	\$65	-	:	16.920		16,920	264	5.604	22,524	5,868
Libertad	6,969	:		6,969		234	362	7,564	595			22.800		22.800	356	4.670	27,470	5,026
Pandan	7.245			7.245				7,245			8,050	20,064		28,114	313	7.005	35,119	7,318
Pathongon	11.937			11,937			362	12,209	362			29,399		29,399	459	7.939	37,338	8,398
(San Jose de Buenavista (Capital)	112,309			112,309			362	112,671	362	191,713		5,161		5,161	18	934	6.095	1,015
San Remissio	3,013			3.013				3,013				28,313		28,313	442	7.472	35.785	7.914
Sebaste	23,322			23.322		234	362	23,917	595	40.676		2,439		2.439	38	701	3,140	739
Sibalom	22,402			22,402		-	362	22,764	362	38,281	2,323	52,805		55.128	824	13,543	129.89	14.367
Tibiao	9.752			9.752				9.752	-	-	5,152	696'6		15,121	156	3.970	19,090	4,125
Tobias Fornier	10,327			10,327				10,327			4,485	19,670		24,155	307	5,371	29,525	5.677
Vaidemama	9.131		· interpretation	9,131		701	362	10,193	1,062			14.988		14,988	234	4,203	19,191	4,437
Provincial Total	307,901			307,901		3,269	4,339	315.509	7.608	270,669	\$1,566	381.081		432.647	5.945	104,842	\$37,488	110.786

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
1.	Preparation for Training Activities	10
	1.1 Transportation	I
	1.2 Technical Assistance	1
	1.3 Food	1
	1.4 Supplies and Materials including Production of Training Kits	6
	1.5 Generation of Training Aids	1 .
2.	Conduct of Training Activities	53
	2.1 Transportation	5
	2.2 Food	12
	2.3 Accommodation	33
	2.4 Training Room Rental	t
	2.5 Miscellaneous	2
3.	Field Visits to Support BWSA Formation	37
4.	3.1 Transportation	5
	3.2 Food	15
	3.3 Accommodation	12
	3.4 Field	4
	Total	100

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11. FINANCIAL ARRANGEMENTS FOR MEDIUM-TERM DEVELOPMENT PLAN

11.3 Additional Funding Requirements

Percentages for Annual Investment

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

Table 11.3.1 Percentages for Annual Investment

Sub-Sector	Component	2001	2002	2003	2004	2005	Total
	Level III System						
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						
1 ² 1 1	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
	1			1 /			
Supply	Level II System					i	ł
	Detail Design	100	. 0.	0	. 0	. : 0	. 100
	Construction & Supervision	50	50	0	0	Ü	100
	Institutional Development	50	50	0	0	0	100
	Urban Household Toilet Rural Household Toilet	12	22	22	22	22	100
	Rural Household Toilet	12	22	22	22	22	100
	Public School Toilet	12	22.	22	22	22	100
Sanitation	Public Toilet	12	22	22	22	22	100
	Disinfection of Level I Wells	12	22	22	22_	22	100
	Detail Design	100	0	0	0	0	. 100
1.1.49	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

Blog Harmon Markey

5. Administrative support.

Urban water supply:

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

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

Rural water supply (Level I):

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

Sanitation:

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

11.4 Medium-Term Implementation Arrangements

11.4.2 Alternative Countermeasures

Comprehensive Investment Need Ranking for the Municipalities

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

11.5 National Government Assisted Level I Water Supply and Sanitation Project

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

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

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

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

O&M for Rural Water Supply

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

O&M for Sanitation

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

Table 11.4.1 Comprehensive Investment Need Ranking of the Municipalities

VA. Supply Rural Water Urban Water Rural Water Supply Rural Samitation Water Supply Rural Supply Supply Rural Water Supply Rural Supply Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply Rural Water Supply </th <th></th> <th>bu(1 to %)</th> <th>Evaluati erserved and Unser</th> <th>Evaluation Factor (%, of Underserved and Unserved Population or Households)</th> <th>useholds)</th> <th></th> <th>Score by Sub-Sector</th> <th>ub-Sector</th> <th></th> <th></th> <th>Weighted</th> <th>Weighted Score by Sub-Sector</th> <th>ub-Sector</th> <th></th> <th>Synthetic</th>		bu(1 to %)	Evaluati erserved and Unser	Evaluation Factor (%, of Underserved and Unserved Population or Households)	useholds)		Score by Sub-Sector	ub-Sector			Weighted	Weighted Score by Sub-Sector	ub-Sector		Synthetic
NA.A. Supply Value Water Supply Supply Supply Supply Supply Water Water Water Water Supply	Name of		1			Urban	Rurai	Lishan	D. r. r.	Urban	Rural	Lirban	Rural	Total	Investment Need Ranking
N.A. 39 17 26 0.76 0.40 0.20 0.19 0.10 0.10 0.05 0.44 N.A. 24 12 13 0.80 0.40 0.40 0.40 0.10 0.10 0.10 0.10 0.10 N.A. 32 34 45 0.40 0.40 0.40 0.40 0.10 0.10 0.10 0.15 0.15 N.A. 36 31 42 0.40 0.40 0.80 0.60 0.10 0.10 0.10 0.15 0.15 N.A. 36 31 42 0.40 0.40 0.80 0.60 0.10 0.10 0.10 0.15 0.44 N.A. 36 31 42 0.40 0.40 0.80 0.60 0.10 0.10 0.10 0.15 0.44 N.A. 37 37 38 31 0.87 0.40 0.40 0.40 0.10 0.10 0.10 0.15 0.44 N.A. 37 38 31 0.87 0.40 0.40 0.40 0.10 0.10 0.10 0.10 0.15 N.A. 37 38 31 0.87 0.40 0.40 0.40 0.10 0.10 0.10 0.10 0.10 N.A. 37 38 31 30 0.44 0.20 0.40 0.40 0.10 0.10 0.10 0.10 0.10 N.A. 37 38 39 30 0.40 0.40 0.20 0.12 0.05 0.10 0.10 0.10 N.A. 37 38 38 39 0.40 0.40 0.20 0.10 0.10 0.10 0.10 0.10 0.10 N.A. 37 38 38 39 0.40 0.40 0.20 0.10 0.10 0.10 0.10 0.10 0.10 N.A. 37 38 38 39 0.40 0.40 0.40 0.20 0.10 0.10 0.10 0.10 0.10 0.10 N.A. 37 38 38 39 0.40 0.40 0.40 0.40 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 N.A. 37 38 38 39 39 0.40 0.40 0.40 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	Municipanty	Urban Water Supply	Rural Water Supply	Urban Sanitation	Rural Sanitation	Water	Water	Sanitation	Sanitation	Water Supply	Water	Sanitation	Sanitation	Weighted Score	
N.A. 37 17 18 18 19 19 19 19 19 19			00		7.4	0.76	0.40	0.40	0.20	0.19	0.0	0.10	0.05	0.44	10
N.A. 34 12 15 15 15 15 15 15 15	א-וחות/	N.V.	60	,,	2	0% 0	040	0.40	0.40	0.20	0.10	0.10	0,10	0.50	7
N.A. 3.4 4.5 6.45 6.45 6.45 6.45 6.45 6.45 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.	Barbaza	γ.γ.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		2	0.40	0.20	0.40	0.20	0.12	0.05	0.10	0.05	0.32	36
N.A. 3.4 2.5 3.4 2.5 3.4 2.5 3.5 3.1 4.2 0.39 0.40 0.60 0.10 0.10 0.10 0.15 0.44 N.A. 3.6 3.1 4.5 50 0.37 0.40 0.60 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	Belison	N.A.	*7	77	3,	980	04.0	080	09.0	0.10	01.0	0.20	0.15	0.55	3
N.A. 35 54 57 54 57 54 54 54 5	Bugason	V.	7,		25	0.30	040	0.80	09.0	0,10	0.10	0.20	0,15	0.55	3
N.A. 35 17 31 0.77 0.40 0.40 0.24 0.10 0.10 0.10 0.54 N.A. 39 17 31 0.65 0.40 0.40 0.24 0.12 0.25 0.25 0.67 N.A. 37 18 31 0.66 0.40 0.40 0.17 0.12 0.25 0.05 0.67 On N.A. 4 21 20 0.67 0.40 0.17 0.10 0.10 0.10 0.47 On N.A. 36 13 20 0.67 0.40 0.12 0.05 0.10 0.10 0.05 0.41 On N.A. 3 18 7 0.46 0.20 0.12 0.05 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.05 0.10 0.10 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	Caluya	N.A.	200	15	3	0.37	0.40	0.40	09'0	60:0	0.10	0.10	0.15	44.0	6
N.A. 39 17 21 21 22 24 27 26 240 260 201 2012 2015 2025 2057 2077 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017	Culasi	Y.A.	00	×, ;	2	200	4	0.40	0.40	0.24	0.10	0,10	0.10	0.54	5
N.A. 30	Hamne	N.A.	39		200	, , ,	٤	8	0.20	0.12	0.25	0.25	0.05	0.67	
N.A. 37 18 21 200 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.10 0.10 0.05 0.41 M.A. 36 13 20 0.63 0.40 0.20 0.16 0.10 0.10 0.05 0.41 N.A. 20 36 12 0.40 0.20 0.12 0.05 0.10 0.05 0.32 N.A. 31 15 25 0.39 0.40 0.20 0.10 0.10 0.10 0.05 0.35 N.A. 35 12 12 0.40 0.40 0.20 0.10 0.10 0.10 0.05 0.35 0.35 N.A. 27 20 31 0.40 0.20 0.20 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 <td>Laua-an</td> <td>N.A.</td> <td>30</td> <td>200</td> <td>07</td> <td></td> <td>040</td> <td>0.40</td> <td>0.40</td> <td>0.17</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.47</td> <td>«</td>	Laua-an	N.A.	30	200	07		040	0.40	0.40	0.17	0.10	0.10	0.10	0.47	«
N.A. 36 13 20 0.46 0.20 0.16 0.10 0.10 0.05 0.41 N.A. 4 18 7 0.46 0.20 0.40 0.20 0.12 0.05 0.10 0.05 0.32 N.A. 20 36 45 0.49 0.20 0.40 0.20 0.12 0.05 0.10 0.05 0.32 N.A. 31 15 25 0.49 0.20 0.40 0.20 0.10 0.10 0.10 0.05 N.A. 35 12 12 19 0.40 0.40 0.20 0.10 0.10 0.10 0.05 N.A. 37 38 11 0.46 0.80 0.20 0.40 0.12 0.05 0.10 0.10 N.A. 44 24 24 34 0.83 0.60 0.40 0.21 0.15 0.15 0.10 0.01 N.A. 37 38 34 0.83 0.60 0.40 0.21 0.15 0.15 0.10 0.01 N.A. 37 38 34 0.83 0.60 0.40 0.21 0.15 0.15 0.10 0.01 N.A. 37 38 34 0.83 0.60 0.40 0.21 0.15 0.15 0.10 0.01 N.A. 37 38 34 0.83 0.60 0.40 0.21 0.15 0.15 0.10 0.01 N.A. 37 38 34 0.83 0.60 0.40 0.21 0.15 0.15 0.10 0.01 N.A. 37 38 34 0.83 0.60 0.40 0.21 0.15 0.15 0.10 0.01 N.A. 37 38 34 0.83 0.80 0.80 0.21 0.15 0.15 0.10 0.01 N.A. 37 38 34 0.83 0.80 0.80 0.21 0.15 0.15 0.10 0.01 N.A. 37 38 34 0.83 0.80 0.80 0.21 0.15 0.15 0.10 0.01 N.A. 37 38 38 38 38 38 38 38	Libertad	V.V.	/(8.	Ç.	22.0	0.20	0.60	0.20	0.07	0.05	0.15	0.05	0.32	. 91
N.A. 36 13 20 0.05 0.20 0.12 0.12 0.05 0.10 0.05 0.32 N.A. 20 36 45 0.20 0.80 0.60 0.12 0.05 0.10 0.05 0.52 N.A. 31 15 25 0.39 0.40 0.20 0.10 0.10 0.10 0.05 0.35 N.A. 35 12 0.40 0.20 0.40 0.10 0.10 0.10 0.05 0.35 N.A. 37 20 31 0.40 0.40 0.40 0.10 0.10 0.05 0.35 N.A. 37 38 11 0.46 0.20 0.40 0.12 0.10 0.10 0.10 0.05 0.10 0.05 0.10 0.05 0.05 0.10 0.05 0.10 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	Pandan	.V.Z	4	17	0.7	77.0	07.0	040	0.20	0.16	0.10	0.10	0.05	0.41	12
N.A. 20 36 45 0.49 0.20 0.60 0.12 0.05 0.20 0.12 0.60 0.15 0.52 0.52 N.A. 31 15 25 0.39 0.40 0.20 0.10 0.10 0.10 0.05 0.35 N.A. 35 12 19 0.40 0.40 0.20 0.11 0.10 0.10 0.05 0.36 N.A. 27 20 31 0.46 0.20 0.40 0.12 0.05 0.10 0.10 0.10 0.37 N.A. 37 38 11 0.37 0.40 0.20 0.40 0.12 0.05 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 <	Patnongon		36	6	٠,	0.00	02.0	0.40	0.20	0.12	0.05	0.10	0.05	0.32	16
N.A. 20 36 45 0.39 0.40 0.20 0.10 0.10 0.10 0.05 0.35 0.35 0.35 0.36 0.37 0.40 0.20 0.10 0.10 0.10 0.05 0.35 0.35 0.36 0.37 0.40 0.40 0.20 0.11 0.10 0.10 0.05 0.36 0.36 0.37 0.40 0.40 0.40 0.12 0.05 0.10 0.10 0.37 0.37 0.40 0.20 0.40 0.12 0.05 0.10 0.10 0.37 0.37 0.40 0.37 0.40 0.20 0.40 0.10 0.20 0.10 0.37 0.44 0.37 0.44 0.37 0.40 0.40 0.21 0.15 0.15 0.10 0.01 0.01 0.01 0.01 0.0	San Jose de Buenavis		4	281	, ,	9	27.0	08.0	090	0.12	0.05	0.20	0.15	0.52	9
N.A. 31 15 25 0.37 0.40 0.40 0.40 0.10 0.10 0.10 0.10 0.35 0.36 N.A. 37 20 31 0.46 0.20 0.40 0.40 0.40 0.12 0.05 0.10 0.10 0.37 0.37 0.40 0.40 0.40 0.10 0.10 0.10 0.10 0.37 0.40 0.10 0.10 0.10 0.10 0.37 0.40 0.10 0.20 0.10 0.10 0.10 0.10 0.37 0.40 0.10 0.20 0.10 0.10 0.10 0.10 0.10 0.1	San Remigio	N.A.	50	36	£ ;	64.0	0.40	040	02.0	01.0	0.10	01.0	50.0	0.35	15
N.A. 35 12 19 0.45 0.40 0.20 0.20 0.20 0.10 0.15 0.10 0.10 0.37 0.40 0.20 0.20 0.20 0.10 0.10 0.10 0.37 0.40 0.20 0.20 0.20 0.20 0.20 0.10 0.20 0.2	Sebaste	N.A.	31	15	3	65.0	200	9	0.30	2 2	01.0	01.0	\$0.0	7,0	4
N.A. 27 20 31 0.46 0.20 0.40 0.12 0.05 0.10 0.10 0.10 0.10 0.10 0.10 0.10	Sibalom	N.A.	35.	12	2	0.43	0	2 6	23.0		20.0		9	0.27	
N.A. 37 38 11 0.37 0.40 0.20 0.20 0.10 0.15 0.10 0.00 0.00 0.00 0.01 0.15 0.10 0.10	Tibiao	Z.A.	27	20	31	0.46	0.20	0.40	3	71.0		2 2	213		3 9
N.A. 44 24 24 34 0.83 0.60 0.60 0.40 0.21 0.15 0.15 0.10 0.10 0.10	Tohios Fornier	Ϋ́Z	37	38	=	0.37	0.40	0.80	0.20	3	0.10	07.0	0.05	1.5	2
I Total N.A. 32 20	Valderrama	Ϋ́	4	24	34	68.0	09.0	09:0	0.40	0.21	0.15	0.15	0.10	0.61	2
	Provincial Total	, Y Z	32	20	29										

(1) Scoring to Underserved and Unserved Percentage.

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

Allocated Weight

0.25

0.25					
0.25					
0.25				,	
	ÎΠ	9	Ş	9	30
วระคามรูด	*×	0 2762	>%>	>%>	>%
d Per	3	53	4	3.1	
nserve		40	30	70	10
Range of Underserved and Unserved Percentage	%>	V 55 V	<%< 30	< %< 20 3	۶,۲ ۱
crserv	4	ž	~	=	
fUnd	Γ	3	S	3	30
Range o	% V	09 1751	<% < 50	04 40	٧ %
	9	5	4	~	
Score	1.0	8.0	0.6	0.4	0.2
		L	<u> </u>	L	Ц

Table 11.5.1 Available IRA for GOP-Assisted Level 1 Water and Rural Sanitation Project for Eligible Municipalities

							X Terus V	Rural Water Supply	2								Kura	Kural Sanitation	tion				ſ
	Tel Nov. of		Jo vok	R. W.	Nov. of R. Water Supply	L	Nos. of L.	Nos. of LEVEL 1 Facilities	ilities	Prov.	Prov. Mun.	Sub-total	No.of	Rural	Rural Sanitation		Num	Number of Toilets) ilets	<u> </u>	Prov.	Mun.	Sub-total
Name of City or		Class	Related	Allotme	Class Related Allotment of IRA	å Ö	Shallow	Spring	Į.	Avail.	Avail, Avail.	Avail.	Related	Related Allotment of IRA	- 1	Public	Bus	School	Ţ.	Ĕ	Avail.	Avail.	Avail.
vinedioinniv.	Rural Area		e Kr	Prov.	Muni.	Wells	Wells	Devit	Related	R	ž.	IR.	Bgy.	Prov.	Muni.	Mkt,	Term,	Toiler		Related	IRA	R.	సై
(Anini-y	12	ě										0		457	2,275			×	8	8	157	2,275	2.732
Barbaza	37	÷					L					0		1,213	1,49X			8	×	×	1.213	1,498	2.711
Belison	0.	SC)			Ŀ	L	<u> </u>					0		290	20		-	0	0	0			0
Bugasong	23	45				L		L				0		1,399	1,417			6	6	6	1.399	1.417	2.816
Caluya	9	414	1		f.,							0		0	1,960			9	9	9	0	096	096
Culasi	4	ų,		L	L							0		Off 9°	2,327			=	=		1.6.40	2,327	787
Hamile	42	413						-				Q		2,030	2,868			1.7	12	1.1	2.080	2,868	4,948
าอ-ตาย	81	φş	L		L							0		1,292	1,727			6	ó	6	1.292	727.1	3.019
Libertad	4	Sth			_		L					0		668	955			- 2	1	١, ١	668	556	1.88.1
Pandan	3-	Sth				L						0		451	3,115			-11	=	Ξ	451)	3,115	3,567
Pamonyon	35	40						_				0		2,458	2.426			20	20	20	2,458	2,426	4,884
San Jose de Buenavista (Capital)	(Capital)	3rd										0		285	-			-		-	285		236
San Remigio	3	40										0		90×	3,564			-2	.:		800	1.564	4,364
Sebaste	43	93										0		0	10			٥	٥	0		-	0
Sibalom	7.1	3rd										0		2,587	3,114			21	21	21	2,587	3,114	5,701
Tibiao	ñ	Ştp 2										0		0	2.086			9	9	9	0	2.086	2,0%6
Tobias Fornier	05	¥1\$										0		0	0			0	0	0			0
Valderrama	22	. T.										o		586	1,137			Ŷ	9	Ŷ	6X3	1.137	2,120
Total	524	J. V	0		٥) 0	0 . 0	0	→	٥	0		16,843	30,490	0	0	152	152	152	152 16,544	694'0E	47.013
Total Available IRA Fund			47.013																				ĺ

Table 11.5.2 Available IRA for COP-Assisted Urban Sanitation Project for Eligible Municipalities

Bgy. in Cluss Related Alloment of IRA Public Bus School 1 5th Prov. Muni. Man. Term 0 0 2 5th 658 970 3 0 1 2 4th 771 857 1 0 3 3 4th 771 850 2 1 0 5 4th 771 857 1 0 0 3 5 4th 771 857 0 0 0 3 5 4th 469 641 0 0 3 5 4th 469 641 0 0 2 6 5th 450 641 0 0 2 7 4th 459 641 0 0 2 8 5th 350 400 0 0 2 8 5th 687 0	Married A.C. Co.	Til Nos. of		Nos. 01	Urbanis	Urban Spottation		Number	Number of Tiolets		Prov.	Mun,	Sub-total
Urban Brow. Prov. Muni. MX. Term. 1 5th 229 420 0 0 2 5th 608 970 3 1 2 4th 587 596 2 1 0 2 4th 771 872 1 0 3 3 3 4th 372 1,456 0 0 3 3 5 4th 469 641 0 0 3 3 5 4th 469 641 0 0 3 3 5 4th 475 607 0 0 2 3 6 5th 329 400 0 0 0 2 7 4th 379 400 0 0 0 0 0 8 5th 300 1,200 0 0 0 0 0	Manne of Caty of	-	Cluss		Allotmen	COLIRA	Public	Bus	School	Τđ	Avail	Avail.	Avail.
1 5th 688 970 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </th <th>Amediaiun ia</th> <th>Urban</th> <th>-</th> <th>Bev.</th> <th>Prov.</th> <th>Muni.</th> <th>Mkt.</th> <th>Term.</th> <th></th> <th>Related</th> <th>IRA</th> <th>IRA</th> <th>IRA</th>	Amediaiun ia	Urban	-	Bev.	Prov.	Muni.	Mkt.	Term.		Related	IRA	IRA	IRA
2 5th 668 970 3 0 1 5th 587 586 2 1 2 4th 387 1,456 2 1 3 4th 452 1,456 0 0 3 4th 468 641 0 0 5 4th 456 641 0 0 5 4th 3329 400 0 0 6 5th 3329 400 0 0 7 5th 3329 400 0 0 8 5th 350 20 0 0 1 4th 350 1,019 0 0 1 4th 500 1,224 0 0 2 3td 0 1,234 0 0 2 3th 0 1,234 0 0 2 3th 0 1,235 <td>Anini-y</td> <td>1</td> <td>Sth.</td> <td></td> <td>259</td> <td>420</td> <td>0</td> <td>Q</td> <td>0</td> <td>0</td> <td></td> <td></td> <td>0</td>	Anini-y	1	Sth.		259	420	0	Q	0	0			0
1 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5th	3arbaza	7	Sth		869	026	3	0	1	4	869	046	1,668
4 40h 771 857 1 0 2 40h 382 1,456 0 0 3 4th 459 641 0 0 5 4th 475 667 0 0 5 4th 379 607 0 0 5 4th 379 607 0 0 6 5th 379 600 0 0 7 5th 481 1019 0 0 1 4th 500 1,240 3 0 1 4th 500 1,240 3 0 5 5th 500 1,582 3 0 6 5th 500 1,582 3 0 5 5th 500 1,582 3 0 5 5th 5th 0 1 5 5th 0 1,582 3 </td <td>3elison</td> <td></td> <td>Sth</td> <td></td> <td>587</td> <td>965</td> <td>2</td> <td>1</td> <td>٥</td> <td>3.</td> <td>587</td> <td>8%</td> <td>1,184</td>	3elison		Sth		587	965	2	1	٥	3.	587	8%	1,184
2 4th 465 641 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sugasong	Þ	40		177	887	1	0	3	7	122	357	1,628
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S /1 /2002/ 27/2	Total	72	Ard		9,314	15,697	17	Ş	17	£ 9	150%	15,277	155,45

able IRA for GOP-Assisted Level I Water Supply and	on Project
IRA for (Sanitatio
Total Available	
Table 11.5.3	

Name of City or	Water Supply	Sanit	Sanitation	Total
Municipality	Rural	Urban	Rural	
Anni-v	0	0	2,732	2,732
Barbaza	0	899"!	112.2	4,379
Belison	0	1.184	0	1,184
Bugasong	0	829'!	2,816	4,444
Caluya	D	1,837	1,960	3,797
Cutasi	0	011.1	1961	5,077
Hamtic	0	1,032	876*7	0.030
uc-ener;	0	728	9,019	3.747
Liberad	0	65CT1	1,85,1	3,212
Pandan	0	005'1	3.567	5,067
Pamongon	0	1,335	4,8%4	612.0
San Jose de Buemavi	0	17672	780	3,256
San Renigio	0	0881	†*)1°*÷	6,194
Sehaste	0	Z85"1	0	2851
Sibalom	0	7NO.1	107.4	6.789
origit	0	855.	2,0%	4.8.4
Tobius Fornier	0	1,112	0	1,112
Vaiderrania	0	1,089	2,120	1,200
Total	-	24,331	17.013	717,12

Table 11.5.4 FIRR for Level I Water Supply

Year	No. of Deep Well	11	No. of Spring Devt.	t. Construction	Rehab. & Replacement Cost	O&M Cost	Total Costs (Outflow)	No. of Houscholds	Water Rate per month per household	Loans and Subsidies	Cash Inflow	Net Value
			- '									
	ጠ	39		15,993,300	0	0	15.993,300	1,020	161'601		09 587 921	114 656 911 400
7	34	. 59		8 23,114,500		159,933	23,274,433	2.535	01 001		3 223 660 90	(04:4:0:000:1)
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4	%	39	-	00:293.300		622,223	11,215,523	4.845	109.19		5.200.05#.00 6.248.306.60	(18.198,944,00)
v,					0	728,156	728,156	4.845	109.19		6 348 306 60	(04.012.10.40)
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۲-					0	728.156	728.156	4.845	109.19		6 348 306 60	3,620,130,00
					•	728,156	728,156	4,845	109.19		6 348 306 60	5,620,150,00
٥	:				0	728,156	728,156	4.845	109.19		6 348 306 60	5 620 150 60
2		•			0	728,156	728,156	4.845	109.19		6.348.306.60	5 670 150 60
-					2.090,900	728,156	5.819,056	4.845	109.19	-	6.348 306 60	520.250.60
			-		7,639,300	728,156	8,367,456	4,845	109.19		6 348 306 60	05.052.050
Ξ.					7.639.300	728.156	8.367.456	4,845	109.19		6.348.306.60	(2019,149,40)
₹ ;					3,914,900	728.156	4,643.056	4,845	109.19		6.348.306.60	1 705 250 60
2 :					O .	728,156	728.156	4,845	109.19		6,348,306,60	5.620.150.60
2 !					0	728,156	728,156	4.845	109.19		6,348,306,60	5.620.150.60
					0	728,156	728,156	4.845	109.19		6,348,306,60	5 670 150 60
; :						728,156	728,156	4.845	109.19		6,348,306.60	5 620 150 60
2 ;					0	728,156	728.156	4.845	109.19	-	6.348.306.60	5,020,020,0
20					0	728,156	728.156	4.845	109.19		6,348,306,60	5.620.150.60

Total: 7.962,161.60 FIRR: 1.29% NPV優%: -22.997.671.74

Table 11.6.1 Investment Program of GOP-Assisted Level I Water Supply and Sanitation Project	Program of GO	P-Assisted Level	I Water Supply	and Sanitation	Project	(Unit: Pesos)
Category	Total Amount	1st year	2nd year	3rd year	4th year	5th year
A. Const. & Civil Works 1. Water Supply	0	0	0	0	0	0
2. Sanitation	53,020,700	0	10,604,140	15,906,210	15.906.210	10.604,140
3. Land Acquisition	0	0 :	0	0		0
B. Equip./Logistic Support	0	0	0	0	0	0
C. Consultancy Services						
1. Hydrogeological Survey	0	0	0	0	0	0
2. D/D and Const. Sv.	5,832,277	2,332,911	1,166,455	1,166,455	583,228	583.228
	-	,				
D. Instiutional Devt.						
1. Capacity Enhanc. Prog.	3,200,000	000,096	000,096	640,000	320,000	320,000
2. Commu. Manag. Prog.	0	0	0	0	0	0
3. Health & Hygiene Educ.	0	0	0	0	0	0
4. Water Quality Surveil.	0		0	0	0	0
S. NGO Assistance	0	0	0	0	0	0
6 Administrative Support	1,200,000	360,000	360,000	240,000	120,000	120,000
E. Physical Contingency (10% of sub-total A+B+C+D)	6,325,298	365,291	1,309,060	1,795,267	1,692,944	1.162.737

Total (A+B+C+D+E+F)	69,578,275	4,018,202	14,399,655	19,747,932	18,622,381	12,790,104
F. Others						
1. Price Contingency	23,834,784	1,376,478	4,932,756	6,764,866	6,379,297	4,381,388
2. Value Added Tax (VAT)	2,722,649	157,235	563,469	772,751	728,707	500,486
						-

Note: Item A includes equity of users.

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

Table 11.6.2 O&M Cost for Level I Facilities

	Deep Well	Shallow Well	Spring Dev't
Nos. of Facilities to be Constructed "	113	195	28
Nos. of HHs to be Served	1,695	2,925	420
Reconstruction Cost (Peso) 2)			
Unit Cost	360,000	84,300	737,600
Ttl. Reconst. Cost	40,680,000	16,438,500	
Ttl. Reconst. Cost/year	2,034,000	1,643,850	
Cost per HH/year	1,200	562	
Rehabilitation Cost (Peso) 33	:		
Unit Cost	78,400		
Ttl. Rehab. Cost	8,859,200		<u> </u>
Ttl. Rehab. Cost/year	885,920		
Cost per HH/year	523		
Recurrent Cost for O&M (Peso)			
Cost per HH/year	100	50	50
O&M Cost Total (Peso) Cost per 11H/year	1,823	612	50

Note: 1) Physical target under ADB-assisted project

- Reconstruction of deep and shallow wells shall be conducted every 20 and 10 years, respectively.
 Spring development is excluded due to more than 20 years facility life.
- 2) Rehabilitation is applicable to deep wells every 10 years.

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

	Deep Well	Shallow Well	Spring Dev't
O&M Cost per HH/month	152	51	4
Proportion (Mean)	2.0%	0.7%	0.1%
Proportion (Median)	2.8%	0.9%	0.1%

Table 11.6.4 Family Income

(Unit: Pesos)

Ann	ual ¹⁾	Mon	******
Mean	Median	Mean	Median
42,393	31,125	7,436	5,459

Note: 1) 1994 NSO Family Income and Expenditure Survey

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

O&M Cost for GOP Assisted Sanitation Project

Table 11.6.5 O&M Cost for Rural Sanitation

(Unit: Pesòs)

Nos. of Facilities	to be Constructed	Unit Constr	uction Cost	Yearly O&M
Public Toilets	School Toilets	Public Toilets	School Toilets	Cost
0	152	361,600	233,500	1,774,600

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

Table 11.6.6 O&M Cost for Urban Sanitation

(Unit: Pesos)

Nos. of Facilities	to be Constructed	Unit Consti	uction Cost	Yearly O&M
Public Toilets	School Toilets	Public Toilets	School Toilets	Cost
22	41	361,600	233,500	876,435

12. MONITORING FOR MEDIUM-TERM DEVELOPMENT PLAN

12.4 Evaluation of Plan Implementation and Updating the PW4SP

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

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

Service Coverage

consequence and produce an accompany of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequ	get sag et de konstant op de som et de som et generale k	LAST YEAR	YEAR			THIS,	THIS YEAR	
Municipality	Population	Persons with Safe	Persons with	Persons with	Population	Persons with Safe	Persons with	Persons with
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Total								
% Served								
		Targets	4					

II. Sources & Uses of Capital Development Funds

					:	Uses of Funds		;	
Source of Fund (1)	Budget for Water Supply & Sanitation (2)	Actual Disbursement (3)	Water Source Development (4)	Water Supply Transmission (5)	Water Storage/ Treatment & Distribution (6)	Household Toilets (7)	School Toilets (8)	Public Toilets (9)	Others (10)
A. Local Funds. Provincial Funds									
Municipal Funds									
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SUB-TOTAL					The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon			:	
B. National Funds						:			
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SUB-TOTAL									
C. External Funds									
SUB-TOTAL									
T	The second second								

III. School Sanitation (Source, DECS)

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

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		

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Form M-1

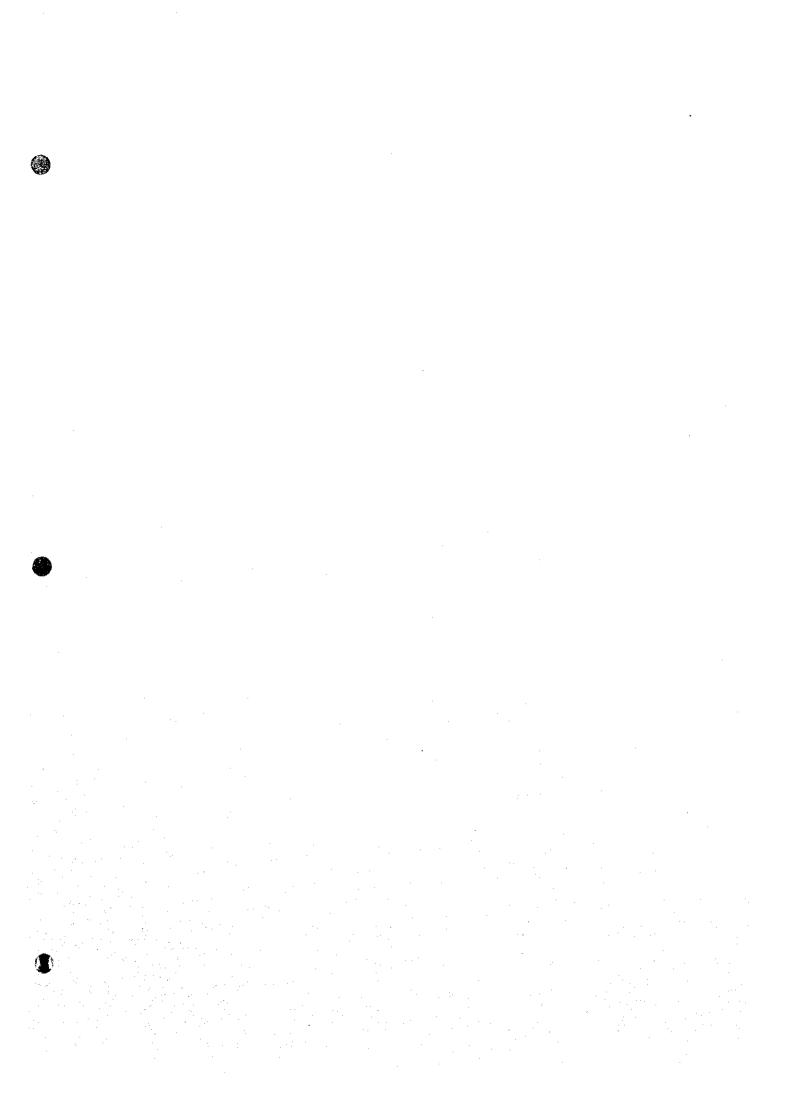
Municipality of Provincial Water & Sanitation Monitoring System

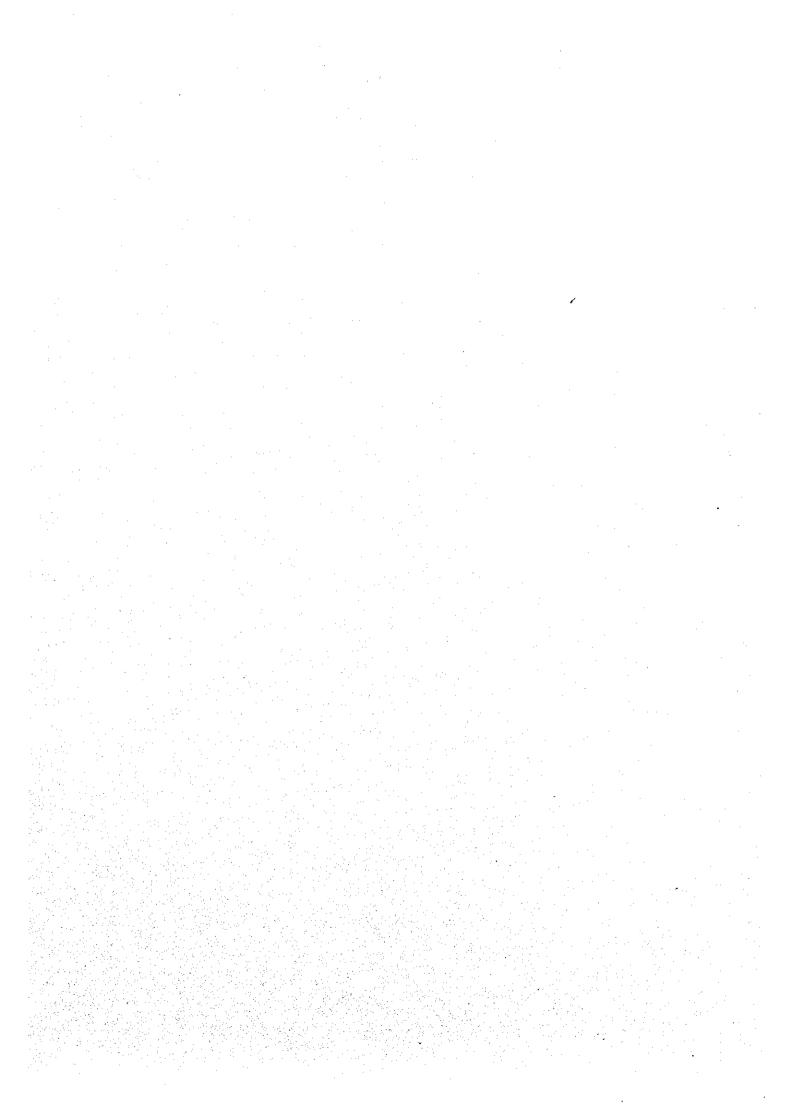
I. Service Coverage

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II. Sources & Uses of Capital Development Funds.

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