

Table 4.2.5 (92/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.	Working Name		Calculation Quantity			Remarks					
U-P3-Bq-71	Concrete, Type C1 including Formwork		10 m3								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.88	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-24	Form Work B	m2	55.91	10030	75	52910	560,768	4,193	2,958,150	
	CW-2-40	Breaking-up the Concrete Form	m2	55.91	0	0	3700	0	0	206,864	
	CW-1-42	Tublar Scaffold for Re-Con IV	m2	0	24970	70	23610	0	0	0	
	CW-1-44	Frame Support	m3	0	11370	50	22310	0	0	0	
	CW-1-20	Concrete Work for Reinforced Concrete C1 by Pump	m3	10	20270	41770	183330	202,700	417,700	1,833,300	
Indirect Cost											
Site Expense			%	15	0.8		0.2	792,838	0	198,210	
Profit and Overhead Cost			%	10	0.8		0.2	607,843	0	151,961	
		Miscellaneous	L.S.					18	96	48	Round Up
Total for	10 m3							2,399,600	426,700	5,531,700	
Unit Cost for	1 m3							239,960	42,670	553,170	

*1: Total Concrete Volume: 22 m3
 *2: Total Scaffolding Area: 0 m2 Total Supporting Volume: 0 m3
 Average Scaffolding Area: 0 m2/unit m3 Average Supporting Volume: 0 m3/unit m3
 Total Formwork Area: 123 m2
 Average Formwork Area: 55.90909 m2/unit m3
 *3: Truck Mixer: 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

ID No.	Working Name		Calculation Quantity			Remarks					
U-P3-Bq-72	Concrete, Type E including Formwork		10 m3								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.88	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-28	Form Work F	m2	33.33333	0	0	36510	0	0	1,217,000	
	CW-1-22	Concrete Work for Levelling Concrete	m3	10	120	37130	158740	1,200	371,300	1,587,400	
Indirect Cost											
Site Expense			%	15	0.8		0.2	432,025	0	108,006	
Profit and Overhead Cost			%	10	0.8		0.2	331,219	0	82,805	
		Miscellaneous	L.S.					22	89	21	Round Up
Total for	10 m3							999,900	376,100	3,178,400	
Unit Cost for	1 m3							99,990	37,610	317,840	

*1: Form Work Area: Total Form work area / Concrete Volume = Form Work Area m2 / concrete 1m3
 20 / 6 = 3.333333 m2/m3
 *2: Dump Truck: 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

- U-P3-Bq-73 Deformed Reinforcing Bars
- U-P3-Bq-74 Wet Stone Masonry is equal unit cost with U-P1-Bq-20.
- U-P3-Bq-79 Gravel Bedding is equal unit cost with U-P2-Bq-100.
- U-P3-Bq-80 Cobble Stone is equal unit cost with U-P2-Bq-174.
- U-P3-Bq-81 Weep Hole, Dia. 50 mm is equal unit cost with U-P2-Bq-29.
- U-P3-Bq-81.1 Pointing
- U-P3-Bq-82 Log Pile, Dia. 150 mm L=2.0m is equal unit cost with U-P2-Bq-176.

Table 4.2.5 (93/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-83		Precast Concrete Pipe, Dia. 800 mm		10 m							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-71	Truck Crane; 11(10) ton, Oil Pressure	hourly	3.45	99321.89	1020	85928.77	342,661	3,519	296,454	
Labour	L-2-1	Foreman	day	0.4	0	0	48800	0	0	19,520	
	L-2-13	Rigger	day	0.4	0	0	39000	0	0	15,600	
	L-2-23	Common Labour	day	1	0	0	35100	0	0	35,100	
Material	M-C-38	Reinforced Concrete Pipe, Dia. 800 mm	m	10	0	98835	230615	0	988,350	2,306,150	
Others		Tools	%	10				34,266	99,187	267,282	Cutter, Mortar and etc.
Indirect Cost											
Site Expense			%	15	0.8		0.2	528,971	0	132,243	
Profit and Overhead Cost			%	10	0.8		0.2	405,544	0	101,386	
		Miscellaneous	L.S.					59	44	65	Round Up
Total for	10 m							1,311,500	1,091,100	3,173,800	
Unit Cost for	1 m							131,150	109,110	317,380	

*1 All composition numbers are quoted from Japanese Standard. (P228)

*2 Truck Crane : $0.5 \text{ day} \times \frac{690}{100} = 3.45 \text{ hours}$

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-89		Concrete, Type C1 including Formwork		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m ³	hourly	3.17	77957.88	1560	60651.61	247,126	4,945	192,266	
Working Base Cost	CW-1-23	Form Work A	m ²	68.00	60	0	44798	4,080	0	3,046,264	
	CW-2-40	Breaking-up the Concrete Formwork for Type-C by Concrete Work for Type-C by	m ²	68.00	0	0	3700	0	0	251,600	
	CW-1-60	Shoot Hopper	m ³	10	120	43660	197860	1,200	436,600	1,978,600	
Indirect Cost											
Site Expense			%	15	0.8		0.2	739,522	0	184,880	
Profit and Overhead Cost			%	10	0.8		0.2	566,967	0	141,742	
		Miscellaneous	L.S.					5	55	48	Round Up
Total for	10 m ³							1,558,900	441,600	5,795,400	
Unit Cost for	1 m ³							155,890	44,160	579,540	

*1 : Total Concrete Volume : 5 m³
 *2 : Total Formwork Area : 34 m²
 Average Formwork Area : 68,00000 m²/unit m³
 *3 : Truck Mixer : $\frac{10.7 \text{ m}^3}{2.38 \text{ Truck}} / \frac{4.5 \text{ m}^3/\text{truck}}{30 \text{ km/hr} + 60 \text{ mts(loss)}} = \frac{2.38 \text{ Truck}}{1.33 \text{ hours}} = 3.17 \text{ hours}$

U-P3-Bq-91 Deformed Reinforcing Bars

U-P3-Bq-95 Furnishing and Driving PC Sheet Pile (t=220 mm) is equal unit cost with U-P2-Bq-33.

Table 4.2.5 (94/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.	Working Name	Calculation Quantity	Remarks								
U-P3-Bq-98	Demolition of Existing Revetment	1 L.S.									
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	I/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment											
	A-2-1-7	Backhoe; 0.6 m3	hourly	40.00	125,543	2,040	90,965	5,021,716	81,600	3,638,603	
	A-2-2-35	Pick Hammer	daily	69.57	5716.910885	0	2030.086722	397,698	0	141,223	
	A-2-1-48	Dumptruck; 10 ton	hourly	94.00	77268.99609	3060	70744.12066	7,263,286	287,640	6,649,947	
	A-2-2-17	Generator; 15 kVA	daily	17.39	82875	1800	52496.05263	1,441,196	31,302	912,906	
Labour											
	L-2-1	Foreman	day	17.39	0	0	48800	0	0	848,696	
	L-2-10	Drill Worker	day	69.57	0	0	39000	0	0	2,713,043	
	L-2-23	Common Labour	day	69.57	0	0	35100	0	0	2,441,739	
Working Base Cost											
	CW-1-54	Excavation I	m3	100	5072	83	3675	507,200	8,300	367,500	
Indirect Cost											
		Site Expense	%	15	0.8		0.2	3,930,432	0	982,608	
		Profit and Overhead Cost	%	10	0.8		0.2	2,620,288	0	655,072	
		Miscellaneous	L.S.					184	158	662	Round Up
Total for								1 L.S.			
Unit Cost for								1 L.S.			
								21,182,000	409,000	19,352,000	
								21,182,000	409,000	19,352,000	

Manpower Composition; Foreman : man/day
 Common Labor : man/day
 Drill Worker : man/day

* 1 : Length of Revetment Demolished L = m x sides = m
 * 2 : Thickness Assumed of Revetment t = m Hence, Volume = m3

* 3	0.5m3 x	$\frac{T_a}{T \times 60}$	=	x Composition of Manpower	=	$\frac{480}{17.39}$	Foreman	$\frac{480}{69.57}$	Drill Worker	$\frac{480}{69.57}$	Common
* 4	1m3 x	$\frac{T_b}{60}$	=	Dump Truck	=	$\frac{480}{94.00}$	hour				
* 5	0.5m3 x	$\frac{T_c}{T \times 60}$	=	Generator	=	$\frac{480}{17.39}$	days				
* 6	0.5m3 x	$\frac{T_c}{60}$	=	Backhoe	=	$\frac{480}{40.00}$	hour				

* 7 : Average Daily Working Time of Generator, Labor, Breaker
 $T = \frac{690}{100} = 6.9$ (hour/day)

Working Time by Hand Breaker / 1m3 (Ta)
 Ta = minutes/m3

Working Time by Dump Truck / 1m3 (Tb)
 $T_b = \left(\frac{5 \text{ km (one way)} \times 2}{30 \text{ km/hour}} + \frac{20 \text{ minutes}}{10 \text{ ton truck}} \right) = 11.75 \text{ minutes/m3}$

Working Time by Backhoe and Pick Hammer / 1m3 (Tc)
 Tc = minutes/m3

U-P3-Bq-100 Structural Excavation is equal unit cost with U-P1-Bq-16.
 U-P3-Bq-101 Backfill is equal unit cost with U-P2-Bq-122.
 U-P3-Bq-102 Embankment is equal unit cost with U-P1-Bq-29.

Table 4.2.5 (95/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name			Calculation Quantity			Remarks			
U-P3-Bq-103		Concrete, Type C1 including Formwork, Scaffolding and Falsework			10 m3						
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.87571	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-24	Form Work B	m2	13.82	10030	75	52910	138,600	1,036	731,140	
		Breaking-up the Concrete									
	CW-2-40	Form	m2	13.82	0	0	3700	0	0	51,129	
		Tublar Scaffold for Re-Con									
	CW-1-42	IV	m2	10.97046	24970	70	23610	273,932	768	259,013	
	CW-1-44	Frame Support	m3	5.791139	11370	50	22310	65,845	290	129,200	
		Concrete Work for									
		Reinforced Concrete C1 by									
	CW-1-20	Pump	m3	10	20270	41770	183330	202,700	417,700	1,833,300	
Indirect Cost											
Site Expense			%	15	0.8		0.2	543,356	0	135,839	
Profit and Overhead Cost			%	10	0.8		0.2	416,573	0	104,143	
		Miscellaneous	L.S.					61	95	68	Round Up
Total for	10 m3							1,876,500	424,600	3,427,000	
Unit Cost for	1 m3							187,650	42,460	342,700	

*1: Total Concrete Volume : 948 m3
 *2: Total Scaffolding Area : 1040 m2
 Average Scaffolding Area : 10.97046 m2/unit m3
 Total Formwork Area : 1310 m2
 Average Formwork Area : 13.81857 m2/unit m3
 *3: Truck Mixer : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

ID	Con	Fin	Sca	Sup
	948	1310	1040	549

ID No.		Working Name			Calculation Quantity			Remarks			
U-P3-Bq-104		Concrete, Type E including Formwork			10 m3						
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.87571	1560	60651.60529	235,433	4,711	183,168	
Working Base Cost											
	CW-1-28	Form Work F	m2	5.384615	0	0	36510	0	0	196,592	
		Concrete Work for									
	CW-1-22	Levelling Concrete	m3	10	120	37130	158740	1,200	371,300	1,587,400	
Indirect Cost											
Site Expense			%	15	0.8		0.2	309,576	0	77,394	
Profit and Overhead Cost			%	10	0.8		0.2	237,342	0	59,335	
		Miscellaneous	L.S.					49	89	10	Round Up
Total for	10 m3							783,600	376,100	2,103,900	
Unit Cost for	1 m3							78,360	37,610	210,390	

*1: Form Work Area : Total Form work area / Concrete Volume = Form Work Area m2 / concrete 1m3
 21 / 39 = 0.538461538 m2/m3
 *2: Dump Truck : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

Table 4.2.5 (96/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-104.1		Secondary Concrete, Type C2		10 m3							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.87571	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-23	Form Work A	m2	36.14	60	0	44798	2,169	0	1,619,205	
	CW-2-40	Breaking-up the Concrete Form	m2	36.14	0	0	3700	0	0	133,735	
	CW-1-20	Concrete Work for Reinforced Concrete C1 by Pump	m3	10	20270	41770	183330	202,700	417,700	1,833,300	
Indirect Cost											
Site Expense			%	15	0.8		0.2	555,854	0	138,964	
Profit and Overhead Cost			%	10	0.8		0.2	426,155	0	106,539	
		Miscellaneous	L.S.					89	89	90	Round Up
Total for		10 m3						1,422,400	422,500	4,015,000	
Unit Cost for		1 m3						142,240	42,250	401,500	

*1 : Total Concrete Volume : 83 m3
 *2 : Total Formwork Area : 300 m2
 Average Formwork Area : 36.14 m2/unit m3
 *3 : Truck Mixer : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

U-P3-Bq-105 Deformed Reinforcing Bars

U-P3-Bq-106 Water Stop, 200 mm wide is equal unit cost with U-P2-Bq-66.

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-107		Furnishing and Driving PC Pile, Dia. 500 mm, Type A		10 m							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Working Base Cost											
	CW-3-26	Pile Work of Asin & Baru No.1	m	3.9	229222.3529	297.6471	63214.70588	893,967	1,161	246,537	
	CW-3-27	Pile Work of Asin & Baru No.2	m	6.1	218426.6667	235.1852	51903.33333	1,332,403	1,435	316,610	
Indirect Cost											
Site Expense			%	15	0.8		0.2	335,054	0	83,763	
Profit and Overhead Cost			%	10	0.8		0.2	256,874	0	64,219	
		Miscellaneous	L.S.					2	5	70	Round Up
Total for		10 m						2,818,300	2,600	711,200	
Unit Cost for		1 m						281,830	260	71,120	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-108		Furnishing and Driving PC Test Pile, Dia. 500 mm, Type A		10 m							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Working Base Cost											
	CW-3-26	Pile Work of Asin & Baru No.1	m	4.4	229222.3529	297.6471	63214.70588	1,008,578	1,310	278,145	
	CW-3-27	Pile Work of Asin & Baru No.2	m	6.6	218426.6667	235.1852	51903.33333	1,441,616	1,552	342,562	
		Piling Test	m	10			30000	0	0	300,000	incl. All tests needed & report
Indirect Cost											
Site Expense			%	15	0.8		0.2	404,852	0	101,213	
Profit and Overhead Cost			%	10	0.8		0.2	310,386	0	77,597	
		Miscellaneous	L.S.					68	38	84	Round Up
Total for		10 m						3,165,500	2,900	1,099,600	
Unit Cost for		1 m						316,550	290	109,960	

U-P3-Bq-109 Furnishing and Driving Steel Sheet Pile, Type II is equal unit cost with U-P2-Bq-63.

U-P3-Bq-110 Furnishing and Driving PC Sheet Pile (t=220 mm) is equal unit cost with U-P2-Bq-33.

U-P3-Bq-110.1 Gabion Mattress, t=500 mm (Galvanized)

U-P3-Bq-111 Safety Hand Rail (Type-I) is equal unit cost with U-P2-Bq-198.

U-P3-Bq-112 Safety Hand Rail (Type-II) is equal unit cost with U-P2-Bq-199.

U-P3-Bq-112.2 Dowel Bar, Dia. 19 mm, 1.0 m Long (Round Bar and PVC Pipe)

U-P3-Bq-113 Wet Stone Masonry is equal unit cost with U-P1-Bq-20.

Table 4.2.5 (97/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

U-P3-Bq-113.1 Weep Hole, Dia. 50 mm

U-P3-Bq-113.2 Pointing

ID No. Working Name Calculation Quantity Remarks
 U-P3-Bq-116 Furnishing and Installing Main Pump Units 1 set

Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	1,869,186,780	0	207,687,420	1,869,186,780	0	207,687,420	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		249,224,904	0	62,306,226		
Profit and Overhead Cost			%	10	0.8		191,072,426	0	47,768,107		
		Miscellaneous	L.S.				90	0	47	Round Up	
Total for		1 set					2,309,484,200	0	317,761,800		
Unit Cost for		1 set					2,309,484,200	0	317,761,800		

ID No. Working Name Calculation Quantity Remarks
 U-P3-Bq-117 Gear Boxes 1 set

Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	527,298,530	0	58,588,726	527,298,530	0	58,588,726	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		70,306,471	0	17,576,618		
Profit and Overhead Cost			%	10	0.8		53,901,627	0	13,475,407		
		Miscellaneous	L.S.				72	0	50	Round Up	
Total for		1 set					651,506,700	0	89,640,800		
Unit Cost for		1 set					651,506,700	0	89,640,800		

ID No. Working Name Calculation Quantity Remarks
 U-P3-Bq-118 Diesel Engine Units 1 set

Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	574,243,466	0	63,804,830	574,243,466	0	63,804,830	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		76,565,795	0	19,141,449		
Profit and Overhead Cost			%	10	0.8		58,700,443	0	14,675,111		
		Miscellaneous	L.S.				96	0	11	Round Up	
Total for		1 set					709,509,800	0	97,621,400		
Unit Cost for		1 set					709,509,800	0	97,621,400		

ID No. Working Name Calculation Quantity Remarks
 U-P3-Bq-120 Fuel Service Tank 1 set

Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	69,795,000	0	7,755,000	69,795,000	0	7,755,000	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		9,306,000	0	2,326,500		
Profit and Overhead Cost			%	10	0.8		7,134,600	0	1,783,650		
		Miscellaneous	L.S.				0	0	50	Round Up	
Total for		1 set					86,235,600	0	11,865,200		
Unit Cost for		1 set					86,235,600	0	11,865,200		

Table 4.2.5 (98/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-121		Fuel Transfer Pump		1 set							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	22,585,140	0	2,509,460	22,585,140	0	2,509,460	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	3,011,352	0	752,838	
Profit and Overhead Cost			%	10	0.8		0.2	2,308,703	0	577,176	
		Miscellaneous	L.S.					5	0	26	Round Up
Total for				1 set				27,905,200	0	3,839,500	
Unit Cost for				1 set				27,905,200	0	3,839,500	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-124		Auxiliary Drainage Pump System		1 set							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	162,665,663	0	18,073,963	162,665,663	0	18,073,963	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	21,688,755	0	5,422,189	
Profit and Overhead Cost			%	10	0.8		0.2	16,628,046	0	4,157,011	
		Miscellaneous	L.S.					37	0	37	Round Up
Total for				1 set				200,982,500	0	27,653,200	
Unit Cost for				1 set				200,982,500	0	27,653,200	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-126		Overhead Crane		1 set							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	222,149,813	0	24,683,313	222,149,813	0	24,683,313	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	29,619,975	0	7,404,994	
Profit and Overhead Cost			%	10	0.8		0.2	22,708,648	0	5,677,162	
		Miscellaneous	L.S.					65	0	32	Round Up
Total for				1 set				274,478,500	0	37,765,500	
Unit Cost for				1 set				274,478,500	0	37,765,500	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-127		Piping System		1 item							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			item	1	67,500,000	0	7,500,000	67,500,000	0	7,500,000	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	9,000,000	0	2,250,000	
Profit and Overhead Cost			%	10	0.8		0.2	6,900,000	0	1,725,000	
		Miscellaneous	L.S.					0	0	0	Round Up
Total for				1 item				83,400,000	0	11,475,000	
Unit Cost for				1 item				83,400,000	0	11,475,000	

Table 4.2.5 (99/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-129		Inspection and Test		1 item							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			item	1	49,500,000	0	5,500,000	49,500,000	0	5,500,000	
Installation		Electricity and Fuel Cost	L.S.	1			29243000	0	0	29,243,000	
Indirect Cost											
Site Expense			%	15	0.8		0.2	10,109,160	0	2,527,290	
Profit and Overhead Cost			%	10	0.8		0.2	7,750,356	0	1,937,589	
		Miscellaneous	L.S.					84	0	21	Round Up
Total for		1 item						67,359,600	0	39,207,900	
Unit Cost for		1 item						67,359,600	0	39,207,900	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-130		Spare Parts		1 item							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			item	1	99,414,563	0	11,046,063	99,414,563	0	11,046,063	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	13,255,275	0	3,313,819	
Profit and Overhead Cost			%	10	0.8		0.2	10,162,378	0	2,540,594	
		Miscellaneous	L.S.					85	0	24	Round Up
Total for		1 item						122,832,300	0	16,900,500	
Unit Cost for		1 item						122,832,300	0	16,900,500	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-131		Maintenance Tools		1 item							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			item	1	31,794,750	0	3,532,750	31,794,750	0	3,532,750	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	4,239,300	0	1,059,825	
Profit and Overhead Cost			%	10	0.8		0.2	3,250,130	0	812,533	
		Miscellaneous	L.S.					20	0	93	Round Up
Total for		1 item						39,284,200	0	5,405,200	
Unit Cost for		1 item						39,284,200	0	5,405,200	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-134		Main Control Panel		1 set							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	680,661,000	0	75,629,000	680,661,000	0	75,629,000	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	90,754,800	0	22,688,700	
Profit and Overhead Cost			%	10	0.8		0.2	69,578,680	0	17,394,670	
		Miscellaneous	L.S.					20	0	30	Round Up
Total for		1 set						840,994,500	0	115,712,400	
Unit Cost for		1 set						840,994,500	0	115,712,400	

Table 4.2.5 (100/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-135		Local Switch		1 set							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	13,896,450	0	1,544,050	13,896,450	0	1,544,050	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	1,852,860	0	463,215	
Profit and Overhead Cost			%	10	0.8		0.2	1,420,526	0	355,132	
		Miscellaneous	L.S.					64	0	4	Round Up
Total for		1 set						17,169,900	0	2,362,400	
Unit Cost for		1 set						17,169,900	0	2,362,400	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-138		Inspection and Test		1 set							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	21,672,900	0	2,408,100	21,672,900	0	2,408,100	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	2,889,720	0	722,430	
Profit and Overhead Cost			%	10	0.8		0.2	2,215,452	0	553,863	
		Miscellaneous	L.S.					28	0	7	Round Up
Total for		1 set						26,778,100	0	3,684,400	
Unit Cost for		1 set						26,778,100	0	3,684,400	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-139		Spare Parts		1 set							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	27,139,500	0	3,015,500	27,139,500	0	3,015,500	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	3,618,600	0	904,650	
Profit and Overhead Cost			%	10	0.8		0.2	2,774,260	0	693,565	
		Miscellaneous	L.S.					40	0	85	Round Up
Total for		1 set						33,532,400	0	4,613,800	
Unit Cost for		1 set						33,532,400	0	4,613,800	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-140		Maintenance Tools		1 set							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	30,496,500	0	3,388,500	30,496,500	0	3,388,500	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	4,066,200	0	1,016,550	
Profit and Overhead Cost			%	10	0.8		0.2	3,117,420	0	779,355	
		Miscellaneous	L.S.					80	0	95	Round Up
Total for		1 set						37,680,200	0	5,184,500	
Unit Cost for		1 set						37,680,200	0	5,184,500	

Table 4.2.5 (101/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name			Calculation Quantity			Remarks			
U-P3-Bq-143		Control Panel for Auxiliary Drainage Pumps			1 set						
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	70,272,000	0	7,808,000	70,272,000	0	7,808,000	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	9,369,600	0	2,342,400	
Profit and Overhead Cost			%	10	0.8		0.2	7,183,360	0	1,795,840	
		Miscellaneous	L.S.					40	0	60	Round Up
Total for				1 set				86,825,000	0	11,946,300	
Unit Cost for				1 set				86,825,000	0	11,946,300	

ID No.		Working Name			Calculation Quantity			Remarks			
U-P3-Bq-143.1		Generator System			1 set						
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation			set	1	48,650,063	0	5,405,563	48,650,063	0	5,405,563	
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	6,486,675	0	1,621,669	
Profit and Overhead Cost			%	10	0.8		0.2	4,973,118	0	1,243,279	
		Miscellaneous	L.S.					45	0	89	Round Up
Total for				1 set				60,109,900	0	8,270,600	
Unit Cost for				1 set				60,109,900	0	8,270,600	

ID No.		Working Name			Calculation Quantity			Remarks			
U-P3-Bq-145		Concrete, Type B including Formwork			10 m3						
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment											
		Truck Crane; 11(10) ton,	hourly	0.11	99321.88995	1020	85928.7745	10,925	112	9,452	
	A-2-1-71	Oil Pressure	hourly	3.02	77957.87571	1560	60651.60529	235,433	4,711	183,168	
	A-2-1-79	Truck Mixer; 4.5 m3	hourly								
Working Base Cost											
	CW-1-24	Form Work B	m2	18.18182	10030	75	52910	182,364	1,364	962,000	
	CW-2-40	Breaking-up the Concrete	m2	18.18182	0	0	3700	0	0	67,273	
	CW-1-62	Reinforced Concrete Work	m3	10	20270	43850	191650	202,700	438,500	1,916,500	
Indirect Cost											
Site Expense			%	15	0.8		0.2	505,740	0	126,435	
Profit and Overhead Cost			%	10	0.8		0.2	387,734	0	96,934	
		Miscellaneous	L.S.					4	13	39	Round Up
Total for				10 m3				1,524,900	444,700	3,361,800	
Unit Cost for				1 m3				152,490	44,470	336,180	

*1 : Total Concrete Volume : 55 m3
 *2 : Total Formwork Area : 100 m2
 Average Formwork Area : 18.18182 m2/unit m3
 *3 : Truck Mixer : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 min(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours
 *4 : Truck Crane : 10.2 m3 / 90 m3/hour = 0.11 hour

- U-P3-Bq-146 Deformed Reinforcing Bars
- U-P3-Bq-147 Safety Hand Rail is equal unit cost with U-P2-Bq-232.
- U-P3-Bq-149 Structural Excavation is equal unit cost with U-P1-Bq-16.
- U-P3-Bq-150 Backfill is equal unit cost with U-P2-Bq-122.

Table 4.2.5 (102/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name			Calculation Quantity			Remarks			
U-P3-Bq-151		Concrete, Type C1 including Formwork, Scaffolding and Falsework			10 m3						
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.87571	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-24	Form Work B Breaking-up the Concrete	m2	34.08	10030	75	52910	341,839	2,556	1,803,259	
	CW-2-40	Form Tublar Scaffold for Re-Con	m2	34.08	0	0	3700	0	0	126,102	
	CW-1-42	IV	m2	27.14286	24970	70	23610	677,757	1,900	640,843	
	CW-1-44	Frame Support Concrete Work for Reinforced Concrete C1 by	m3	12.65306	11370	50	22310	143,865	633	282,290	
	CW-1-20	Pump	m3	10	20270	41770	183330	202,700	417,700	1,833,300	
Indirect Cost											
Site Expense			%	15	0.8		0.2	827,767	0	206,942	
Profit and Overhead Cost			%	10	0.8		0.2	634,621	0	158,655	
		Miscellaneous	L.S.					18	0	41	Round Up
Total for		10 m3						3,064,000	427,500	5,234,600	
Unit Cost for		1 m3						306,400	42,750	523,460	

*1 : Total Concrete Volume : 49 m3
 *2 : Total Scaffolding Area : 133 m2
 Average Scaffolding Area : 27.14286 m2/unit m3
 Total Formwork Area : 167 m2
 Average Formwork Area : 34.08163 m2/unit m3
 *3 : Truck Mixer : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/trnd / 30 km/hr + 60 mnts(loss)= 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

ID No.		Working Name			Calculation Quantity			Remarks			
U-P3-Bq-152		Concrete, Type E including Formwork			10 m3						
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.87571	1560	60651.60529	235,433	4,711	183,168	
Working Base Cost											
	CW-1-28	Form Work F Concrete Work for	m2	10	0	0	36510	0	0	365,100	
	CW-1-22	Levelling Concrete	m3	10	120	37130	158740	1,200	371,300	1,587,400	
Indirect Cost											
Site Expense			%	15	0.8		0.2	329,797	0	82,449	
Profit and Overhead Cost			%	10	0.8		0.2	252,845	0	63,211	
		Miscellaneous	L.S.					25	89	72	Round Up
Total for		10 m3						819,300	376,100	2,281,400	
Unit Cost for		1 m3						81,930	37,610	228,140	

*1 : Form Work Area : Total Form work area / Concrete Volume = Form Work Area m2 / concrete 1m3
 3 / 3 = 1 m2/m3
 *2 : Dump Truck : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/trnd / 30 km/hr + 60 mnts(loss)= 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

U-P3-Bq-153 Deformed Reinforcing Bars

ID No.		Working Name			Calculation Quantity			Remarks			
U-P3-Bq-154		Fuel Tank and Accessories			1 set						
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
Transportation											
Installation			set	1	157,635,000	0	17,515,000	157,635,000	0	17,515,000	
Indirect Cost											
Site Expense			%	15	0.8		0.2	21,018,000	0	5,254,500	
Profit and Overhead Cost			%	10	0.8		0.2	16,113,800	0	4,028,450	
		Miscellaneous	L.S.					0	0	50	Round Up
Total for		1 set						194,766,800	0	26,798,000	
Unit Cost for		1 set						194,766,800	0	26,798,000	

Table 4.2.5 (103/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.	Working Name		Calculation Quantity			Remarks						
U-P3-Bq-155	Grounding		1 set									
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks	
					PF/C	IF/C	L/C	PF/C	IF/C	L/C		
Direct Cost												
Furnishing												
Transportation			set	1	11,542,500	0	1,282,500	11,542,500	0	1,282,500		
Installation												
Indirect Cost												
Site Expense			%	15	0.8		0.2	1,539,000	0	384,750		
Profit and Overhead Cost			%	10	0.8		0.2	1,179,900	0	294,975		
		Miscellaneous	L.S.					0	0	75	Round Up	
Total for		1 set						14,261,400	0	1,962,300		
Unit Cost for		1 set						14,261,400	0	1,962,300		

- U-P3-Bq-159 Structural Excavation is equal unit cost with U-P1-Bq-16.
- U-P3-Bq-160 Backfill with Sandy Soil is equal unit cost with U-P2-Bq-23.
- U-P3-Bq-161 Wet Stone Masonry is equal unit cost with U-P1-Bq-20.
- U-P3-Bq-162 Pointing is equal unit cost with U-P1-Bq-23.

Table 4.2.5 (104/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

U-P3-Bq-165 Structural Excavation is equal unit cost with U-P1-Bq-16.
 U-P3-Bq-166 Backfill with Sandy Soil is equal unit cost with U-P2-Bq-23.

ID No.	Working Name		Calculation Quantity							Remarks	
U-P3-Bq-167	Concrete, Type C1 including Formwork, Scaffolding and Falsework		10 m ³								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m ³	hourly	3.02	77957.876	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-24	Form Work B	m ²	55.23	10030	75	52910	553,983	4,142	2,922,355	
	CW-2-40	Breaking-up the Concrete Form	m ²	55.23	0	0	3700	0	0	204,360	
	CW-1-42	Tublar Scaffold for Re-Con IV	m ²	40.69767	24970	70	23610	1,016,221	2,849	960,872	
	CW-1-44	Frame Support	m ³	13.95349	11370	50	22310	158,651	698	311,302	
		Concrete Work for Reinforced									
	CW-1-20	Concrete C1 by Pump	m ³	10	20270	41770	183330	202,700	417,700	1,833,300	
Indirect Cost											
Site Expense			%	15	0.8		0.2	1,081,493	0	270,373	
Profit and Overhead Cost			%	10	0.8		0.2	829,145	0	207,286	
		Miscellaneous	L.S.					74	100	83	Round Up
Total for		10 m ³						4,077,700	430,200	6,893,100	
Unit Cost for		1 m ³						407,770	43,020	689,310	

*1 : Total Concrete Volume : 86 m³
 *2 : Total Scaffolding Area : 350 m² Total Supporting Volume : 120 m³
 Average Scaffolding Area : 40.69767 m²/unit m³ Average Supporting Volume : 13.9534884 m³/unit m³
 Total Formwork Area : 475 m²
 Average Formwork Area : 55.23256 m²/unit m³
 *3 : Truck Mixer : 10.2 m³ / 4.5 m³/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

ID No.	Working Name		Calculation Quantity							Remarks	
U-P3-Bq-168	Concrete, Type E including Formwork		10 m ³								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m ³	hourly	3.02	77957.876	1560	60651.6053	235,433	4,711	183,168	
Working Base Cost											
	CW-1-28	Form Work F	m ²	10	0	0	36510	0	0	365,100	
		Concrete Work for Levelling									
	CW-1-22	Concrete	m ³	10	120	37130	158740	1,200	371,300	1,587,400	
Indirect Cost											
Site Expense			%	15	0.8		0.2	329,797	0	82,449	
Profit and Overhead Cost			%	10	0.8		0.2	252,845	0	63,211	
		Miscellaneous	L.S.					25	89	72	Round Up
Total for		10 m ³						819,300	376,100	2,281,400	
Unit Cost for		1 m ³						81,930	37,610	228,140	

*1 : Form Work Area : Total Form work area / Concrete Volume = Form Work Area m² / concrete 1m³
 7 / 7 = 1 m²/m³
 *2 : Dump Truck : 10.2 m³ / 4.5 m³/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

Table 4.2.5 (105/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.	Working Name		Calculation Quantity			Remarks						
U-P3-Bq-168.1	Secondary Concrete, Type C2		10 m ³									
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks	
					PF/C	IF/C	L/C	PF/C	IF/C	L/C		
Direct Cost												
Equipment												
	A-2-1-79	Truck Mixer; 4.5 m ³	hourly	3.02	77957.876	1560	60651.61	235,433	4,711	183,168		
Working Base Cost												
	CW-1-23	Form Work A	m ²	40.00	60	0	44798	2,400	0	1,791,920		
	CW-2-40	Breaking-up the Concrete Form	m ²	40.00	0	0	3700	0	0	148,000		
	CW-1-20	Concrete C1 by Pump	m ³	10	20270	41770	183330	202,700	417,700	1,833,300		
Indirect Cost												
Site Expense												
			%	15	0.8		0.2	578,320	0	144,580		
Profit and Overhead Cost												
			%	10	0.8		0.2	443,379	0	110,845		
		Miscellaneous	L.S.					69	89	88	Round Up	
Total for								10 m ³				
Unit Cost for								1 m ³	146,230	42,250	421,190	

*1 : Total Concrete Volume : 10 m³
 *2 : Total Formwork Area : 40 m²
 Average Formwork Area : 40.00 m²/unit m³
 *3 : Truck Mixer : 10.2 m³ / 4.5 m³/truck = 2.27 Truck
 10 km²/rd / 30 km/hr + 60 mins(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

- U-P3-Bq-169 Deformed Reinforcing Bars
- U-P3-Bq-170 Water Stop, 200 mm wide is equal unit cost with U-P2-Bq-66.
- U-P3-Bq-170.1 Dowel Bar, Dia. 19 mm, 1.0 m long (Round Bar and PVC Pipe)

ID No.	Working Name		Calculation Quantity			Remarks						
U-P3-Bq-171	Furnishing and Driving PC Piles, Dia. 500 mm, Type A		10 m									
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks	
					PF/C	IF/C	L/C	PF/C	IF/C	L/C		
Direct Cost												
Working Base Cost												
	CW-3-26	Pile Work of Asin & Baru No.1	m	4.4	229222.35	297.6471	63214.7059	1,008,578	1,310	278,145		
	CW-3-27	Pile Work of Asin & Baru No.2	m	5.6	218426.67	235.1852	51903.3333	1,223,189	1,317	290,659		
Indirect Cost												
Site Expense												
			%	15	0.8		0.2	336,384	0	84,096		
Profit and Overhead Cost												
			%	10	0.8		0.2	257,894	0	64,474		
		Miscellaneous	L.S.					54	73	27	Round Up	
Total for								10 m				
Unit Cost for								1 m	282,610	270	71,740	

- U-P3-Bq-172 Furnishing and Driving Steel Sheet Pile, Type II is equal unit cost with U-P2-Bq-196
- U-P3-Bq-172.1 Gabion Mattress, t= 500 mm (Galvanized)
- U-P3-Bq-173 Safety Hand Rail (Type-1) is equal unit cost with U-P2-Bq-198.
- U-P3-Bq-174 Ladder is equal unit cost with U-P2-Bq-274.
- U-P3-Bq-175 Window is equal unit cost with U-P2-Bq-275.
- U-P3-Bq-176 Door is equal unit cost with U-P2-Bq-276.

Table 4.2.5 (106/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.	Working Name		Calculation Quantity			Remarks					
U-P3-Bq-176.1	Roof Sealing		1 L.S.								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Labour											
	L-2-16	Steel Worker	day	18.84195	0	0	39000	0	0	734,836	
	L-2-29	Chief of Steel Worker	day	4.45095	0	0	58600	0	0	260,826	
	L-2-23	Common Labour	day	27.80925	0	0	35100	0	0	976,105	
	L-2-22	Asphalt Worker	day	3	0	0	35100	0	0	105,300	
	L-2-1	Foreman	day	2	0	0	48800	0	0	97,600	
Material											
	M-C-4	Asphalt	kg	8690.625	0	450	1050	0	3,910,781	9,125,156	
	M-C-46	Sealant	m ³	4.5	0	17600	70400	0	79,200	316,800	
	M-E-50	Stopper Nail	pcs	90	0	3	7	0	270	630	
	M-E-7	Steel Plate SS41	kg	197.82	5225	0	275	1,033,610	0	54,401	
		Galvanizing						516,805	0	27,200	
		Rubber	m	45	0	0	200	0	0	9,000	
		Foam	m	90	0	0	100	0	0	9,000	
Indirect Cost											
Site Expense											
			%	15	0.8		0.2	2,070,902	0	517,726	
Profit and Overhead Cost											
			%	10	0.8		0.2	1,587,692	0	396,923	
		Miscellaneous	L.S.					92	49	98	Round Up
Total for 1 L.S.											
								5,209,100	3,990,300	12,631,600	
Unit Cost for 1 L.S.											
								5,209,100	3,990,300	12,631,600	

- * 1 : Plating Production Rate for Furnishing (100kg)
 - Steel Worker 6.75 Hence, 13.35285
 - Chief of Steel Worker 2.25 4.45095
 - Common Labor 6.75 13.35285
- for Installation (100kg)
 - Steel Worker 0.5 0.9891
 - Common Labor 2 3.9564
- for Drilling (1 hole)
 - Steel Worker 0.05 4.5
 - Common Labor 0.05 4.5
- * 2 : Another Production Rate
 - Foreman 2
 - Common Labor 6
 - Asphalt Worker 3
- * 3 : Steel Plate
 - Unit Weight 0.35 m x 0.0016 m x 7850 kg/m³ = 4.396 kg/m
 - Total Weight 4.396 kg/m x 5 m long x 9 piece = 197.82 kg
- * 4 : Rubber
 - Total Length 5 m long x 9 piece = 45 m
- * 5 : Foam
 - Total Length 5 m long x 9 piece x 2 = 90 m
- * 6 : Drilling
 - Total Number 5 m long x 9 piece x 2 = 90 piece
- * 7 : Asphalt
 - Total Volume 0.25 m x 0.75 m x 5 m long x 9 piece
- * 8 : Sealant
 - Total Volume x 1.03 ton/m³ = 8690.625 kg
 - 0.5 m x 0.1 m x 5 m long x 9 piece
 - x 2 sides = 4.5 m³

ID No.	Working Name		Calculation Quantity			Remarks					
U-P3-Bq-178	Gate Leaf		1 set								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
		Transportation	set	1	96591936	0	185,744,199	96,591,936	0	185,744,199	
Installation											
Indirect Cost											
Site Expense											
			%	15	0.8		0.2	33,880,336	0	8,470,084	
Profit and Overhead Cost											
			%	10	0.8		0.2	25,974,924	0	6,493,731	
		Miscellaneous	L.S.					3	0	86	Round Up
Total for 1 set											
								156,447,200	0	200,708,100	
Unit Cost for 1 set											
								156,447,200	0	200,708,100	

ID No.	Working Name		Calculation Quantity			Remarks					
U-P3-Bq-179	Guide Frame		1 set								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing											
		Transportation	set	1	22551507	0	174,941,893	22,551,507	0	174,941,893	
Installation											
Indirect Cost											
Site Expense											
			%	15	0.8		0.2	23,699,208	0	5,924,802	
Profit and Overhead Cost											
			%	10	0.8		0.2	18,169,393	0	4,542,348	
		Miscellaneous	L.S.					93	0	56	Round Up
Total for 1 set											
								64,420,200	0	185,409,100	
Unit Cost for 1 set											
								64,420,200	0	185,409,100	

Table 4.2.5 (107/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-180		Hoist		1 set							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing			set	1	465063431	0	125,922,609	465,063,431	0	125,922,609	
Transportation											
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	70,918,325	0	17,729,581	
Profit and Overhead Cost			%	10	0.8		0.2	54,370,716	0	13,592,679	
		Miscellaneous	L.S.					29	0	31	Round Up
Total for		1 set						590,352,300	0	157,244,900	
Unit Cost for		1 set						590,352,300	0	157,244,900	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-181		Stop Log		1 set							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing			set	1	57543089	0	42,630,852	57,543,089	0	42,630,852	
Transportation											
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	12,020,873	0	3,005,218	
Profit and Overhead Cost			%	10	0.8		0.2	9,216,003	0	2,304,001	
		Miscellaneous	L.S.					36	0	29	Round Up
Total for		1 set						78,780,000	0	47,940,100	
Unit Cost for		1 set						78,780,000	0	47,940,100	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-181.1		Spare Parts		1 L.S.							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing			set	1	57543089	0	42,630,852	57,543,089	0	42,630,852	
Transportation											
Installation											
Indirect Cost											
Site Expense			%	15	0.8		0.2	12,020,873	0	3,005,218	
Profit and Overhead Cost			%	10	0.8		0.2	9,216,003	0	2,304,001	
		Miscellaneous	L.S.					36	0	29	Round Up
Total for		1 L.S.						78,780,000	0	47,940,100	
Unit Cost for		1 L.S.						78,780,000	0	47,940,100	

Table 4.2.5 (108/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-186		Pump Control Building		1 L.S.							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost		Pump Control Building		1 L.S.	30064514	16222960	166886651	30,064,514	16,222,960	166,886,651	
Indirect Cost											
Site Expense			%	15	0.8			25,580,895	0	6,395,224	
Profit and Overhead Cost			%	10	0.8			19,612,019	0	4,903,005	
		Miscellaneous	L.S.					72	40	20	Round Up
Total for		1 L.S.						75,257,500	16,223,000	178,184,900	
Unit Cost for		1 L.S.						75,257,500	16,223,000	178,184,900	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-187		Management Office		1 L.S.							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost		Management Office		1 L.S.	410711	14956327	161288951	410,711	14,956,327	161,288,951	
Indirect Cost											
Site Expense			%	15	0.8			21,198,719	0	5,299,680	
Profit and Overhead Cost			%	10	0.8			16,252,351	0	4,063,088	
		Miscellaneous	L.S.					19	73	81	Round Up
Total for		1 L.S.						37,861,800	14,956,400	170,651,800	
Unit Cost for		1 L.S.						37,861,800	14,956,400	170,651,800	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-188		Garage		1 L.S.							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost		Garage		1 L.S.	442843.85	17179220	180717979	442,844	17,179,220	180,717,979	
Indirect Cost											
Site Expense			%	15	0.8			23,800,805	0	5,950,201	
Profit and Overhead Cost			%	10	0.8			18,247,284	0	4,561,821	
		Miscellaneous	L.S.					67	80	98	Round Up
Total for		1 L.S.						42,491,000	17,179,300	191,230,100	
Unit Cost for		1 L.S.						42,491,000	17,179,300	191,230,100	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-189		Staff House		1 L.S.							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost		Staff House		1 L.S.	123599.89	7906971.2	92617635.9	123,600	7,906,971	92,617,636	
Indirect Cost											
Site Expense			%	15	0.8			12,077,785	0	3,019,446	
Profit and Overhead Cost			%	10	0.8			9,259,635	0	2,314,909	
		Miscellaneous	L.S.					80	29	9	Round Up
Total for		1 L.S.						21,461,100	7,907,000	97,952,000	
Unit Cost for		1 L.S.						21,461,100	7,907,000	97,952,000	

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-190		External Works		1 L.S.							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost		Staff House		1 L.S.	8072782	6426420	79592273.4	8,072,782	6,426,420	79,592,273	
Indirect Cost											
Site Expense			%	15	0.8			11,290,977	0	2,822,744	
Profit and Overhead Cost			%	10	0.8			8,656,416	0	2,164,104	
		Miscellaneous	L.S.					25	80	78	Round Up
Total for		1 L.S.						28,020,200	6,426,500	84,579,200	
Unit Cost for		1 L.S.						28,020,200	6,426,500	84,579,200	

Table 4.2.5 (109/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name		Calculation Quantity		Remarks					
U-P3-Bq-193		Coffering and Dewatering		1 L.S.							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Working Base Cost											
	CW-4-7	Sand Bags	nos	300	88.5375	758.9625	4199.663	26,561	227,689	1,259,899	
	CW-4-23	Temporary Dewatering by D160mm	day	140	319831.1	15124	234050.7	44,776,352	2,117,360	32,767,096	
Indirect Cost											
Site Expense											
			%	15	0.8		0.2	9,740,995	0	2,435,249	
Profit and Overhead Cost											
		Miscellaneous	L.S.	10	0.8		0.2	7,468,096	0	1,867,024	
								97	51	33	
Total for								1 L.S.			
Unit Cost for								1 L.S.			
								62,012,100	2,345,100	38,329,300	

Sand Bag
 * 1 : Total Number of Sand Bags : 300 nos. from Construction Planning
 Dewatering
 * 2 : D160mm 7 month x 10 days x 2 set = 140

ID No.		Working Name		Calculation Quantity		Remarks					
U-P3-Bq-195		Common Excavation Including Hauling and Spoiling		10 m3							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment											
	A-2-1-48	Dumptruck; 10 ton	hourly	0.8	77269	3060	70744.12	61,815	2,448	56,595	
Working Base Cost											
	CW-1-5	Spreading A	m3	12	2941	35	2823	35,292	420	33,876	for Reclamation Site
	CW-1-46	Excavation A	m3	4	2361	39	1711	9,444	156	6,844	
	CW-1-47	Excavation B	m3	5	2951	48	2138	14,755	240	10,690	
	CW-1-6	Manpower Excavation	m3	1	0	0	15800	0	0	15,800	
Indirect Cost											
Site Expense											
			%	15	0.8		0.2	29,805	0	7,451	
Profit and Overhead Cost											
		Miscellaneous	L.S.	10	0.8		0.2	22,851	0	5,713	
								38	36	31	Round Up
Total for								10 m3			
Unit Cost for								1 m3			
								174,000	3,300	137,000	

*1 : Soil Volume : 10 m3
 *2 : Dump Truck : 10 ton/dump / 8 km/rnd / 40 km/hr + 20 mnits(loss) = 6.67 m3/dump = 0.53 hours
 10 m3 / 6.67 m3/dump = 1.5 dp/10m3
 1.5 dp/10m3 x 0.53 hours = 0.8 hours
 *3 : Spreading : 10 m3 x 1.2 = 12 m3

U-P3-Bq-197 Structural Excavation is equal unit cost with U-P1-Bq-16.
 U-P3-Bq-198 Backfill with Cobble is equal unit cost with U-P2-Bq-21.
 U-P3-Bq-199 Backfill with Gravel is equal unit cost with U-P2-Bq-22.
 U-P3-Bq-200 Backfill with Sandy Soil is equal unit cost with U-P2-Bq-23.
 U-P3-Bq-201 Wet Stone Masonry is equal unit cost with U-P1-Bq-20.

Table 4.2.5 (110/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name		Calculation Quantity			Remarks						
U-P3-Bq-202		Concrete, Type C1 including Formwork		10 m3									
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks		
					PF/C	IF/C	L/C	PF/C	IF/C	L/C			
Direct Cost													
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.88	1560	60651.61	235,433	4,711	183,168			
Working Base Cost													
	CW-1-23	Form Work A	m2	48.13	60	0	44798	2,888	0	2,155,904			
	CW-2-40	Breaking-up the Concrete Form	m2	48.13	0	0	3700	0	0	178,063			
	CW-1-20	Concrete Work for Reinforced Concrete C1 by Pump	m3	10	20270	41770	183330	202,700	417,700	1,833,300			
Indirect Cost													
Site Expense			%	15	0.8		0.2	625,664	0	156,416			
Profit and Overhead Cost			%	10	0.8		0.2	479,676	0	119,919			
		Miscellaneous	L.S.					40	89	31	Round Up		
Total for								10 m3		1,546,400	422,500	4,626,800	
Unit Cost for								1 m3		154,640	42,250	462,680	

*1 : Total Concrete Volume : 320 m3
 *2 : Total Formwork Area : 1540 m2
 Average Formwork Area : 48.13 m2/unit m3
 *3 : Truck Mixer : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

ID No.		Working Name		Calculation Quantity			Remarks						
U-P3-Bq-203		Concrete, Type E including Formwork		10 m3									
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks		
					PF/C	IF/C	L/C	PF/C	IF/C	L/C			
Direct Cost													
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.88	1560	60651.61	235,433	4,711	183,168			
Working Base Cost													
	CW-1-28	Form Work F	m2	28.8	0	0	36510	0	0	1,051,488			
	CW-1-22	Concrete Work for Levelling Concrete	m3	10	120	37130	158740	1,200	371,300	1,587,400			
Indirect Cost													
Site Expense			%	15	0.8		0.2	412,164	0	103,041			
Profit and Overhead Cost			%	10	0.8		0.2	315,992	0	78,998			
		Miscellaneous	L.S.					11	89	5	Round Up		
Total for								10 m3		964,800	376,100	3,004,100	
Unit Cost for								1 m3		96,480	37,610	300,410	

*1 : Form Work Area : Total Form work area 288 / Concrete Volume 100 = Form Work Area m2 / concrete 1m3 2.88 m2/m3
 *2 : Dump Truck : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

- U-P3-Bq-204 Deformed Reinforcing Bars
- U-P3-Bq-205 Pointing is equal unit cost with U-P1-Bq-23.
- U-P3-Bq-206 Weep Hole, Dia. 50 mm is equal unit cost with U-P2-Bq-29.
- U-P3-Bq-206.1 Log Pile, Dis. 150 mm, L = 3.0 m
- U-P3-Bq-207 Sodding is equal unit cost with U-P2-Bq-307.
- U-P3-Bq-209 Structural Excavation is equal unit cost with U-P1-Bq-16.
- U-P3-Bq-210 Backfill is equal unit cost with U-P2-Bq-122.
- U-P3-Bq-211 Backfill with Gravel is equal unit cost with U-P2-Bq-22.

Table 4.2.5 (111/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-212		Concrete, Type C1 including Formwork and Falsework		10 m3							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.17	77957.88	1560	60651.61	247,126	4,945	192,266	
Working Base Cost											
	CW-1-23	Form Work A	m2	25.41	60	0	44798	1,524	0	1,138,111	
	CW-1-44	Frame Support Breaking-up the Concrete	m3	20.81	11370	50	22310	236,610	1,041	464,271	
	CW-2-40	Form Concrete Work for Type-C by	m2	25.41	0	0	3700	0	0	94,000	
	CW-1-60	Shoot Hopper	m3	10	120	43660	197860	1,200	436,600	1,978,600	
Indirect Cost											
Site Expense			%	15	0.8		0.2	575,555	0	143,889	
Profit and Overhead Cost			%	10	0.8		0.2	441,259	0	110,315	
		Miscellaneous	L.S.					25	14	48	Round Up
Total for		10 m3						1,503,300	442,600	4,121,500	
Unit Cost for		1 m3						150,330	44,260	412,150	

*1 : Total Concrete Volume : 37 m3
 *2 : Total Formwork Area : 94 m2
 Average Formwork Area : 25.41 m2/unit m3
 *3 : Truck Mixer : 10.7 m3 / 10 km/rnd / 2.38 Truck
 Total Falsework Volume : 77 m3
 Average Falsework Volume : 20.81 m3/unit m3
 = 4.5 m3/truck = 2.38 Truck
 = 30 km/hr + 60 mnts(loss) = 1.33 hours
 = 1.33 hours = 3.17 hours

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-213		Concrete, Type E including Formwork		10 m3							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.88	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-28	Form Work F Concrete Work for Levelling	m2	36	0	0	36510	0	0	1,314,360	
	CW-1-22	Concrete	m3	10	120	37130	158740	1,200	371,300	1,587,400	
Indirect Cost											
Site Expense			%	15	0.8		0.2	443,709	0	110,927	
Profit and Overhead Cost			%	10	0.8		0.2	340,177	0	85,044	
		Miscellaneous	L.S.					82	89	1	Round Up
Total for		10 m3						1,020,600	376,100	3,280,900	
Unit Cost for		1 m3						102,060	37,610	328,090	

*1 : Form Work Area : Total Form work area / Concrete Volume = From Work Area m2 / concrete 1m3
 = 18 / 5 = 3.6 m2/m3
 *2 : Dump Truck : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 = 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 = 2.27 Truck x 1.33 hours = 3.02 hours

- U-P3-Bq-214 Deformed Reinforcing Bars
- U-P3-Bq-215 Wet Stone Masonry is equal unit cost with U-P1-Bq-20.
- U-P3-Bq-216 Log Pile, Dia. 150 mm L=2.0 m is equal unit cost with U-P2-Bq-176.
- U-P3-Bq-217 Weep Hole, Dia. 50 mm is equal unit cost with U-P2-Bq-29.

ID No.		Working Name		Calculation Quantity			Remarks				
U-P3-Bq-218		Stop Log (wood)		1 item							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Furnishing								0	0	0	
Transportation								0	0	0	
Installation								0	0	0	
Indirect Cost											
Site Expense			%	15	0.8		0.2	0	0	0	
Profit and Overhead Cost			%	10	0.8		0.2	0	0	0	
		Miscellaneous	L.S.					0	0	0	Round Up
Total for		1 item						0	0	0	
Unit Cost for		1 item						0	0	0	

Table 4.2.5 (112/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

- U-P3-Bq-220 Structural Excavation is equal unit cost with U-P1-Bq-16.
- U-P3-Bq-221 Backfill is equal unit cost with U-P2-Bq-122.
- U-P3-Bq-222 Backfill with Gravel is equal unit cost with U-P2-Bq-22.
- U-P3-Bq-222.1 Cobble Stone

ID No. Working Name Calculation Quantity Remarks
 U-P3-Bq-223 Concrete, Type C1 including Formwork, Scaffolding and Falsework 10 m3

Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.88	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-24	Form Work B Breaking-up the Concrete	m2	40.54	10030	75	52910	406,573	3,040	2,144,745	
	CW-2-40	Form	m2	40.54	0	0	3700	0	0	149,982	
	CW-1-42	Tablar Scaffold for Re-Con IV	m2	26.78571	24970	70	23610	668,839	1,875	632,411	
	CW-1-44	Frame Support Concrete Work for Reinforced	m3	6.25	11370	50	22310	71,063	313	139,438	
	CW-1-20	Concrete C1 by Pump	m3	10	20270	41770	183330	202,700	417,700	1,833,300	
Indirect Cost											
Site Expense			%	15	0.8		0.2	851,435	0	212,859	
Profit and Overhead Cost			%	10	0.8		0.2	652,767	0	163,192	
		Miscellaneous	L.S.					91	61	7	Round Up
Total for								10 m3	3,088,900	427,700	5,459,100
Unit Cost for								1 m3	308,890	42,770	545,910

- *1 : Total Concrete Volume : 56 m3
- *2 : Total Scaffolding Area : 150 m2 Total Supporting Volume : 35 m3
- Average Scaffolding Area : 26.78571 m2/unit m3 Average Supporting Volume : 6.25 m3/unit m3
- Total Formwork Area : 227 m2
- Average Formwork Area : 40.53571 m2/unit m3
- *3 : Truck Mixer : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
- 10 km/rnd / 30 km/hr + 60 mnts(loss)= 1.33 hours
- 2.27 Truck x 1.33 hours = 3.02 hours

U-P3-Bq-224 Deformed Reinforcing Bars

ID No. Working Name Calculation Quantity Remarks
 U-P3-Bq-225 Concrete, Type E including Formwork 10 m3

Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.88	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-28	Form Work F Concrete Work for Levelling	m2	18	0	0	36510	0	0	657,180	
	CW-1-22	Concrete	m3	10	120	37130	158740	1,200	371,300	1,587,400	
Indirect Cost											
Site Expense			%	15	0.8		0.2	364,847	0	91,212	
Profit and Overhead Cost			%	10	0.8		0.2	279,716	0	69,929	
		Miscellaneous	L.S.					4	89	11	Round Up
Total for								10 m3	881,200	376,100	2,588,900
Unit Cost for								1 m3	88,120	37,610	258,890

- *1 : Form Work Area : Total Form work area / Concrete Volume = From Work Area m2 / concrete 1m3
- 9 / 5 = 1.8 m2/m3
- *2 : Dump Truck : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
- 10 km/rnd / 30 km/hr + 60 mnts(loss)= 1.33 hours
- 2.27 Truck x 1.33 hours = 3.02 hours

- U-P3-Bq-226 Wet Stone Masonry is equal unit cost with U-P1-Bq-20.
- U-P3-Bq-227 Log Pile, Dia. 150 mm L= 2.0 m is equal unit cost with U-P2-Bq-176.
- U-P3-Bq-228 Weep Hole, Dia. 50 mm is equal unit cost with U-P2-Bq-29.
- U-P3-Bq-228.1 Pointing

Table 4.2.5 (113/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

- U-P3-Bq-230 Structure Excavation is equal unit cost with U-P1-Bq-16.
- U-P3-Bq-231 Backfill is equal unit cost with U-P2-Bq-122.
- U-P3-Bq-232 Backfill with Gravel is equal unit cost with U-P2-Bq-22.
- U-P3-Bq-232.1 Cobble Stone

ID No.	Working Name		Calculation Quantity							Remarks	
U-P3-Bq-233	Concrete, Type C1 including Formwork		10 m3								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.88	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-24	Form Work B	m2	28.00	10030	75	52910	280,840	2,100	1,481,480	
		Breaking-up the Concrete									
	CW-2-40	Form	m2	28.00	0	0	3700	0	0	103,600	
	CW-1-42	Tublar Scaffold for Re-Con IV	m2	0	24970	70	23610	0	0	0	
	CW-1-44	Frame Support	m3	64	11370	50	22310	727,680	3,200	1,427,840	
		Concrete Work for Reinforced									
	CW-1-20	Concrete C1 by Pump	m3	10	20270	41770	183330	202,700	417,700	1,833,300	
Indirect Cost											
Site Expense			%	15	0.8		0.2	828,450	0	207,113	
Profit and Overhead Cost			%	10	0.8		0.2	635,145	0	158,786	
		Miscellaneous	L.S.					52	89	13	Round Up
Total for		10 m3						2,910,300	427,800	5,395,300	
Unit Cost for		1 m3						291,030	42,780	539,530	

- *1 : Total Concrete Volume : 15 m3
- *2 : Total Scaffolding Area : 0 m2
- Average Scaffolding Area : 0 m2/unit m3
- Total Formwork Area : 42 m2
- Average Formwork Area : 28.00 m2/unit m3
- *3 : Truck Mixer : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
- 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
- 2.27 Truck x 1.33 hours = 3.02 hours
- Total Supporting Volume : 96 m3
- Average Supporting Volume : 64 m3/unit m3

ID No.	Working Name		Calculation Quantity							Remarks	
U-P3-Bq-234	Concrete, Type E including Formwork		10 m3								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.88	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-28	Form Work F	m2	25	0	0	36510	0	0	912,750	
		Concrete Work for Levelling									
	CW-1-22	Concrete	m3	10	120	37130	158740	1,200	371,300	1,587,400	
Indirect Cost											
Site Expense			%	15	0.8		0.2	395,515	0	98,879	
Profit and Overhead Cost			%	10	0.8		0.2	303,228	0	75,807	
		Miscellaneous	L.S.					23	89	96	Round Up
Total for		10 m3						935,400	376,100	2,858,100	
Unit Cost for		1 m3						93,540	37,610	285,810	

- *1 : Form Work Area : Total Form work area 5 / Concrete Volume 2 = Form Work Area m2 / concrete 1m3 2.5 m2/m3
- *2 : Dump Truck : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
- 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
- 2.27 Truck x 1.33 hours = 3.02 hours

Table 4.2.5 (114/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

U-P3-Bq-235	Deformed Reinforcing Bars	
U-P3-Bq-236	Wet Stone Masonry	is equal unit cost with U-P1-Bq-20.
U-P3-Bq-237	Log Pile, Dia. 150mm L=2.0 m	is equal unit cost with U-P2-Bq-176.
U-P3-Bq-238	Weep Hole, Dia. 50 mm	is equal unit cost with U-P2-Bq-29.
U-P3-Bq-238.1	Pointing	
U-P3-Bq-240	Stripping of Top Soil	is equal unit cost with U-P1-Bq-28.
U-P3-Bq-241	Embankment	is equal unit cost with U-P1-Bq-29.
U-P3-Bq-244	Aggregate Class A	is equal unit cost with U-P1-Bq-32.
U-P3-Bq-245	Aggregate Class B	is equal unit cost with U-P1-Bq-33.
U-P3-Bq-245.1	Sand Bedding	
U-P3-Bq-245.2	Concrete Block Pavement	
U-P3-Bq-245.3	Concrete Kerb	is equal unit cost with U-P1-Bq-33.4.
U-P3-Bq-245.5	Sodding	

Table 4.2.5 (115/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name		Calculation Quantity		Remarks						
U-P3-Bq-248		Cutting and Dewatering		1 L.S.								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks	
					PF/C	IF/C	L/C	PF/C	IF/C	L/C		
Direct Cost												
Working Base Cost												
	CW-4-7	Sand Bags	nos	1005	88.5375	758.9625	4199.663	88,980	762,757	4,220,661		
	CW-4-23	Temporary Dewatering by D160mm	day	140	319831.08	15124	234050.7	44,776.352	2,117,360	32,767,096		
Indirect Cost												
Site Expense												
			%	15	0.8		0.2	10,167,985	0	2,541,996		
Profit and Overhead Cost												
		Miscellaneous	%	10	0.8		0.2	7,795,455	0	1,948,864		
			L.S.					29	83	84		
Total for								1 L.S.				
Unit Cost for								1 L.S.				
									62,828,800	2,880,200	41,478,700	
									62,828,800	2,880,200	41,478,700	

Sand Bag
 * 1: Total Number of Sand Bags : 1005 nos. from Construction Planning
 Dewatering
 * 2: D160mm 7 month x 10 days x 2 set = 140

U-P3-Bq-250 Structural Excavation is equal unit cost with U-P1-Bq-16.

ID No.		Working Name		Calculation Quantity		Remarks						
U-P3-Bq-251		Structural Excavation with Shoring		3 m								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks	
					PF/C	IF/C	L/C	PF/C	IF/C	L/C		
Direct Cost												
Material												
	M-E-9	H-beam (Purchasing), SS41	kg	247.5	5225	0	275	1,293,188	0	68,063		
	M-E-31	Steel Sheet Pile (Purchasing)	ton	0.9	5700000	0	300000	5,130,000	0	270,000		
Equipment												
	A-2-1-48	Dumptruck; 10 ton	hourly	2.71	77268.996	3060	70744.12	209,399	8,293	191,717		
Working Base Cost												
	CW-1-5	Spreading A	m3	27	2941	35	2823	79,407	945	76,221	for Reclamation Site	
	CW-1-46	Excavation A	m3	33.75	2361	39	1711	79,684	1,316	57,746		
	CW-1-47	Excavation B	m3	33.75	2951	48	2138	99,596	1,620	72,158		
	CW-1-6	Manpower Excavation	m3	1	0	0	15800	0	0	15,800		
	CW-3-17	Wale Work-B (Temporary) Driving In of Steel Sheet Pile	ton	1.485	558950	3200	581050	830,041	4,752	862,859		
	CW-3-9	(Type-I) Pulling Out of Steel Sheet Pile	m	45	9909.0668	76.17755	8578.669	445,908	3,428	386,040		
	CW-3-10	(Type-II)	m	45	9754	67	8548	438,930	3,015	384,660		
Indirect Cost												
Site Expense												
			%	15	0.8		0.2	1,321,774	0	330,444		
Profit and Overhead Cost												
		Miscellaneous	%	10	0.8		0.2	1,013,360	0	253,340		
			L.S.					14	31	53	Round Up	
Total for								3 m				
Unit Cost for								1 m				
									10,941,300	23,400	2,969,100	
Unit Cost for								1 m3				
									3,647,100	7,800	989,700	
									162,093	347	43,987	

* 1: Calculation Length : 3 m
 * 2: Excavation Volume : 5 m width x 4.5 m high x 3 m long = 67.5 m3
 * 3: Backfill Volume : 67.5 m3 - 9 m3 x 3 m long = 40.5 m3
 * 4: Soil Waste Volume : 67.5 m3 - 40.5 m3 = 27 m3
 * 5: Dump Truck : 10 ton/dump / 10 km/rnd / 27 m3 / 4.05 dp/10m3 = 1.5 m3/ton = 30 km/hr + 20 mnts(loss) = 6.67 m3/dump = 0.67 hours
 * 6: Spreading : 27 m3 x 0.67 hours = 2.71 hours
 * 7: Steel Sheet Pile : 48 kg/m x 15 m long x 3 m dstnc / 0.4 m wide = 48 kg/m x 45 m in total = 5400 kg
 * 8: Steel in General : 11 m length in total x 135 kg/m3 = 1485 kg
 1485 kg / 6 times = 247.5 kg

U-P3-Bq-252 Backfill with Sandy Soil is equal unit cost with U-P2-Bq-23.

Table 4.2.5 (116/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.		Working Name			Calculation Quantity						Remarks
U-P3-Bq-253		Concrete, Type C1 including Formwork, Scaffolding and Falsework			10 m3						
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.876	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-24	Form Work B	m2	36.85	10030	75	52910	369,650	2,764	1,949,969	
	CW-2-40	Breaking-up the Concrete Form	m2	36.85	0	0	3700	0	0	136,362	
	CW-1-42	Tubular Scaffold for Re-Con IV	m2	22.04561	24970	70	23610	550,479	1,543	520,497	
	CW-1-44	Frame Support	m3	9.282361	11370	50	22310	105,540	464	207,089	
	CW-1-20	Concrete Work for Reinforced Concrete C1 by Pump	m3	10	20270	41770	183330	202,700	417,700	1,833,300	
Indirect Cost											
Site Expense			%	15	0.8		0.2	806,564	0	201,641	
Profit and Overhead Cost			%	10	0.8		0.2	618,366	0	154,592	
		Miscellaneous	L.S.					67	17	82	Round Up
Total for								10 m3			
Unit Cost for								1 m3			
								2,888,800	427,200	5,186,700	
								288,880	42,720	518,670	

*1 : Total Concrete Volume : 2982 m3
 *2 : Total Scaffolding Area : 6574 m2
 Average Scaffolding Area : 22.04561 m2/unit m3
 Total Formwork Area : 10990 m2
 Average Formwork Area : 36.85446 m2/unit m3
 *3 : Truck Mixer : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

ID No.		Working Name			Calculation Quantity						Remarks
U-P3-Bq-254		Concrete, Type E including Formwork			10 m3						
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.876	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-28	Form Work F	m2	6.887967	0	0	36510	0	0	251,480	
	CW-1-22	Concrete Work for Levelling Concrete	m3	10	120	37130	158740	1,200	371,300	1,587,400	
Indirect Cost											
Site Expense			%	15	0.8		0.2	316,163	0	79,041	
Profit and Overhead Cost			%	10	0.8		0.2	242,392	0	60,598	
		Miscellaneous	L.S.					13	89	14	Round Up
Total for								10 m3			
Unit Cost for								1 m3			
								795,200	376,100	2,161,700	
								79,520	37,610	216,170	

*1 : Form Work Area : Total Form work area 166 / Concrete Volume 241 = Form Work Area m2 / concrete 1m3
 0.688797 m2/m3
 *2 : Dump Truck : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

- U-P3-Bq-255 Deformed Reinforcing Bars
- U-P3-Bq-258 Embankment is equal unit cost with U-P1-Bq-29.
- #REF! #REF! is equal unit cost with U-P1-Bq-30.
- #REF! #REF! is equal unit cost with U-P1-Bq-31.
- U-P3-Bq-261 Aggregate Class A is equal unit cost with U-P1-Bq-32.
- #REF! #REF! is equal unit cost with U-P1-Bq-33.
- U-P3-Bq-262.1 Sand Bedding is equal unit cost with U-P1-Bq-19.
- U-P3-Bq-262.2 Concrete Block Pavement
- U-P3-Bq-262.3 Cement Mortar
- U-P3-Bq-262.4 Concrete Kerb is equal unit cost with U-P1-Bq-33.4.

Table 4.2.5 (117/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.	Working Name		Calculation Quantity		Remarks						
U-P3-Bq-265	Coffering and Dewatering		1 L.S.								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Working Base Cost											
	CW-4-7	Sand Bags	nos	492	88.5375	758.9625	4199.663	43,560	373,410	2,066,234	
	CW-4-23	Temporary Dewatering by D160mm	day	140	319831.1	15124	234050.7	44,776,352	2,117,360	32,767,096	
Indirect Cost											
		Site Expense	%	15	0.8		0.2	9,857,281	0	2,464,320	
Profit and Overhead Cost											
		Miscellaneous	%	10	0.8		0.2	7,557,249	0	1,889,312	
		Miscellaneous	L.S.					58	30	38	
Total for								62,234,500	2,490,800	39,187,000	
Unit Cost for								62,234,500	2,490,800	39,187,000	

Sand Bag * 1 : Total Number of Sand Bags : 492 nos. from Construction Planning

Dewatering * 2 : D160mm 7 month x 10 days x 2 set = 140

ID No.	Working Name		Calculation Quantity		Remarks						
U-P3-Bq-267	Common Excavation including hauling and spoiling		10 m3								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment											
	A-2-1-48	Dumptruck; 10 ton	hourly	0.87	77269	3060	70744.12	67,224	2,662	61,547	
Working Base Cost											
	CW-1-5	Spreading A	m3	12	2941	35	2823	35,292	420	33,876	for Reclamation Site
	CW-1-47	Excavation B	m3	4	2951	48	2138	11,804	192	8,552	
	CW-1-48	Excavation C	m3	5	3943	65	2857	19,715	325	14,285	
	CW-1-6	Manpower Excavation	m3	1	0	0	15800	0	0	15,800	
Indirect Cost											
		Site Expense	%	15	0.8		0.2	32,603	0	8,151	
Profit and Overhead Cost											
		Miscellaneous	%	10	0.8		0.2	24,996	0	6,249	
		Miscellaneous	L.S.					66	1	40	Round Up
Total for								191,700	3,600	148,500	
Unit Cost for								19,170	360	14,850	

*1 : Soil Volume : 10 m3

*2 : Dump Truck : 10 ton/dump / 1.5 m3/ton = 6.67 m3/dump
 10 km/rnd / 40 km/hr + 20 mins(loss) = 0.58 hours
 10 m3 / 6.67 m3/dump = 1.5 dp/10m3
 1.5 dp/10m3 x 0.58 hours = 0.87 hours

*3 : Spreading : 10 m3 x 1.2 = 12 m3

- U-P3-Bq-268 Structural Excavation is equal unit cost with U-P1-Bq-16.
- U-P3-Bq-269 Backfill with Sandy Soil is equal unit cost with U-P2-Bq-23.
- U-P3-Bq-269.1 Cobble Stone
- U-P3-Bq-270 Wet Stone Masonry is equal unit cost with U-P1-Bq-20.
- U-P3-Bq-271 Cement Mortar Plastering is equal unit cost with U-P1-Bq-22.
- U-P3-Bq-272 Pointing is equal unit cost with U-P1-Bq-23.
- U-P3-Bq-272.1 Weep Hole, Dia. 50 mm
- U-P3-Bq-273 Water Stop, 200 mm wide is equal unit cost with U-P2-Bq-66.
- U-P3-Bq-273.1 Log Pile, Dia 150 mm L= 2.0 m is equal unit cost with U-P2-Bq-29.
- U-P3-Bq-276 Stripping of Top Soil is equal unit cost with U-P1-Bq-28.
- U-P3-Bq-277 Embankment is equal unit cost with U-P1-Bq-29.
- U-P3-Bq-280 Aggregate Class A is equal unit cost with U-P1-Bq-32.
- U-P3-Bq-281 Aggregate Class B is equal unit cost with U-P1-Bq-33.
- U-P3-Bq-281.1 Sand Bedding is equal unit cost with U-P1-Bq-19.
- U-P3-Bq-281.2 Concrete Block Pavement
- U-P3-Bq-281.3 Cement Mortar
- U-P3-Bq-281.4 Concrete Kerb

Table 4.2.5 (118/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.	Working Name	Calculation Quantity	Remarks								
U-P3-Bq-251	Structural Excavation with Shoring	125 m									
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment											
	A-2-1-48	Dontruck; 10 ton	hourly	113.01	77268.996	3060	70744.12	8,732,169	345,811	7,994,793	
Working Base Cost											
	CW-1-5	Spreading A	m3	1125	2941	35	2823	3,308,625	39,375	3,175,875	for Reclamation Site
	CW-1-46	Excavation A	m3	1406.25	2361	39	1711	3,320,156	54,844	2,406,094	
	CW-1-47	Excavation B	m3	1406.25	2951	48	2138	4,149,844	67,500	3,006,563	
	CW-1-6	Manpower Excavation	m3	28.125	0	0	15800	0	0	444,375	
	CW-1-2	Backfill (Soil) B	m3	1518.75	7022	103	6326	10,664,663	156,431	9,607,613	
	CW-1-4	Backfill (Soil) D	m3	168.75	6038	132	7114	1,018,913	22,275	1,200,488	
	CW-3-17	Wale Work-B (Temporary)	ton	67.5	558950	3200	581050	37,729,125	216,000	39,220,875	
	CW-3-9	Driving In of Steel Sheet Pile (Type-II)	m	1875	9909.0668	76.17755	8578.669	18,579,500	142,833	16,085,005	
	CW-3-10	Pulling Out of Steel Sheet Pile (Type-II)	m	1875	9754	67	8548	18,288,750	125,625	16,027,500	
	CW-4-7	Sand Bags	nos	201	88.5375	758.9625	4199.663	17,796	152,551	844,132	
	CW-4-23	Temporary Dewatering by D160mm	day	100	319831.08	15124	234050.7	31,983,108	1,512,400	23,405,068	
Indirect Cost											
	Site Expense	%		15	0.8		0.2	31,685,601	0	7,921,400	
	Profit and Overhead Cost	%		10	0.8		0.2	24,292,294	0	6,073,073	
	Miscellaneous	L.S.						57	55	47	Round Up
Total for 125 m								193,770,600	2,835,700	137,412,900	
Unit Cost for 1 L.S.								193,770,600	2,835,700	137,412,900	

- * 1 : Calculation Length : 125 m
- * 2 : Excavation Volume : 5 m width x 4.5 m high x 125 m long = 2812.5 m3
- * 3 : Backfill Volume : 2812.5 m3 - 9 m3 x 125 m long = 1687.5 m3
- * 4 : Soil Waste Volume : 2812.5 m3 - 1687.5 m3 = 1125 m3
- * 5 : Dump Truck : 10 ton/dump / 1.5 m3/ton = 6.67 m3/dump
10 km/rnd / 30 km/hr + 20 mins(loss) = 0.67 hours
1125 m3 / 6.67 m3/dump = 168.67 dp/10m3
168.67 dp/10m3 x 0.67 hours = 113.01 hours
- * 6 : Spreading : 1125 m3
- * 7 : Steel Sheet Pile : 48 kg/m x 15 m long x 125 m distnc / 0.4 m wide
= 48 kg/m x 1875 m in total = 225000 kg
- * 8 : Steel in General : 500 m length in total x 135 kg/m = 67500 kg
- * 9 : Sand Bag : 201 nos. from Construction Planning
- * 10 : Dewatering : D200mm 5 months x 10 days x 2 set = 100

U-P3-Bq-286 Structural Excavation is equal unit cost with U-P1-Bq-16.

U-P3-Bq-287 Backfill with Sandy Soil is equal unit cost with U-P2-Bq-23.

ID No.	Working Name	Calculation Quantity	Remarks								
U-P3-Bq-288	Concrete, Type C1 including Formwork, Scaffolding and Falsework	10 m3									
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment											
	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.876	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-24	Form Work B	m2	35.42	10030	75	52910	355,277	2,657	1,874,147	
	CW-2-40	Breaking-up the Concrete Form	m2	35.42	0	0	3700	0	0	131,059	
	CW-1-42	Tabular Scaffold for Re-Con IV	m2	26.56036	24970	70	23610	663,212	1,859	627,090	
	CW-1-44	Frame Support	m3	11.18451	11370	50	22310	127,168	559	249,526	
	CW-1-20	Concrete C1 by Pump	m3	10	20270	41770	183330	202,700	417,700	1,833,300	
Indirect Cost											
	Site Expense	%		15	0.8		0.2	829,148	0	207,287	
	Profit and Overhead Cost	%		10	0.8		0.2	635,680	0	158,920	
	Miscellaneous	L.S.						82	14	2	Round Up
Total for 10 m3								3,048,700	427,500	5,264,500	
Unit Cost for 1 m3								304,870	42,750	526,450	

- * 1 : Total Concrete Volume : 439 m3
- * 2 : Total Scaffolding Area : 1166 m2 Total Supporting Volume : 491 m3
Average Scaffolding Area : 26.56036 m2/unit m3 Average Supporting Volume : 11.18451025 m3/unit m3
Total Formwork Area : 1555 m2
- * 3 : Average Formwork Area : 35.42141 m2/unit m3
- Truck Mixer : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
10 km/rnd / 30 km/hr + 60 mins(loss) = 1.33 hours
2.27 Truck x 1.33 hours = 3.02 hours

Table 4.2.5 (119/119) CALCULATION SHEET FOR UNIT COST OF EACH PAYMENT ITEM OF THREE PACKAGES

ID No.	Working Name		Calculation Quantity							Remarks	
U-P3-Bq-289	Concrete, Type E including Formwork		10 m3								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Equipment											
	A-2-1-79	Truck Mixer; 4.5 m3	hourly	3.02	77957.876	1560	60651.61	235,433	4,711	183,168	
Working Base Cost											
	CW-1-28	Form Work F	m2	6.944444	0	0	36510	0	0	253,542	
		Concrete Work for Levelling									
	CW-1-22	Concrete	m3	10	120	37130	158740	1,200	371,300	1,587,400	
Indirect Cost											
Site Expense											
			%	15	0.8		0.2	316,410	0	79,103	
Profit and Overhead Cost											
			%	10	0.8		0.2	242,581	0	60,645	
		Miscellaneous	L.S.					75	89	43	Round Up
Total for								10 m3			
Unit Cost for								1 m3			
								795,700	376,100	2,163,900	
								79,570	37,610	216,390	

*1 : Form Work Area : Total Form work area / Concrete Volume = From Work Area m2 / concrete 1m3
 25 / 36 = 0.694444 m2/m3

*2 : Dump Truck : 10.2 m3 / 4.5 m3/truck = 2.27 Truck
 10 km/rnd / 30 km/hr + 60 mnts(loss) = 1.33 hours
 2.27 Truck x 1.33 hours = 3.02 hours

U-P3-Bq-290 Deformed Reinforcing Bars

U-P3-Bq-291 Water Stop, 200 mm wide is equal unit cost with U-P2-Bq-66.

ID No.	Working Name		Calculation Quantity							Remarks	
U-P3-Bq-299	Tree Planting		1 L.S.								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Working Base Cost											
	CW-4-20	Bougainvillea Planting	tree	610	0	150	103560	0	91,500	63,171,600	
Indirect Cost											
Site Expense											
			%	15	0.8		0.2	7,591,572	0	1,897,893	
Profit and Overhead Cost											
			%	10	0.8		0.2	5,820,205	0	1,455,051	
		Miscellaneous	L.S.					23	0	56	Round Up
Total for								1 L.S.			
Unit Cost for								1 L.S.			
								13,411,800	91,500	66,524,600	
								13,411,800	91,500	66,524,600	

ID No.	Working Name		Calculation Quantity							Remarks	
U-P3-Bq-301	Supplying Maintenance Equipment		1 L.S.								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Direct Cost											
Material											
	M-L-18	Backhoe, 0.35m3	nos.	1	469871053	0	0	469,871,053	0	0	
	M-L-19	Dump Truck, 8t	nos.	1	422763158	0	0	422,763,158	0	0	
	M-L-22	Outboard Motor Boat	nos.	1	90592105	0	0	90,592,105	0	0	
Others											
Indirect Cost											
Site Expense											
			%	15	0.8		0.2	117,987,158	0	29,496,789	
Profit and Overhead Cost											
			%	10	0.8		0.2	90,456,821	0	22,614,205	
		Miscellaneous	L.S.					5	0	5	Round Up
Total for								1 L.S.			
Unit Cost for								1 L.S.			
								1,191,670,300	0	52,111,000	
								1,191,670,300	0	52,111,000	

Table 4.2.6 (1/5) SUMMARY OF CONSTRUCTION COST FOR BUILDINGS IN PACKAGE-2

CONSTRUCTION COST OF GARAGE BUILDING

ID No.	Item	Unit	Quantity	Unit Cost			Cost			Total	
				PE/C	IF/C	L/C	PE/C	IF/C	L/C		
I. EXCAVATION, FILLING, AND GRADING WORK											
S-B1-Bq-1	Earth Cut, 1 m depth	m ³	85.98	0	0	16,000	0	0	1,375,680		1,375,680
S-B1-Bq-2	Earth Fill (Old)	m ³	29.13	0	0	7,700	0	0	224,301		224,301
S-B1-Bq-3	Earth Fill (New)	m ³	40.37	502	495	17,061	20,268	20,001	688,756		729,023
S-B1-Bq-4	Sand Fill	m ³	11.29	0	1,620	41,800	0	18,290	471,922		490,212
S-B1-Bq-5	Sand Fill Under Foundation	m ³	8.13	0	1,620	41,800	0	13,171	339,834		353,005
										Sub Total	3,172,222
II. FOUNDATION WORK											
S-B2-Bq-1	Dry Stone Masonry	m ³	16.54	0	2,900	96,000	0	47,566	1,587,840		1,635,806
S-B2-Bq-3	Stone Masonry 1:3:10	m ³	28.15	0	9,800	166,600	0	275,870	4,689,790		4,965,660
S-B2-Bq-2	Brick block 1:3:10	m ³	7.15	0	6,960	326,310	0	49,764	2,333,117		2,382,881
										Sub Total	8,984,347
III. REINFORCEMENT CONCRETE WORK											
S-B4-Bq-1	Concrete K-225	m ³	9.25	0	43,680	184,460	0	404,040	1,706,255		2,110,295
S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	717.56	0	1,203	9,178	0	863,225	6,549,888		7,413,112
S-B4-Bq-8	Steel Bar Deformed Dia. 16 mm	Kg	1,171.82	0	1,285	9,320	0	1,506,961	10,921,362		12,428,323
S-B4-Bq-2	Light Concrete (Concrete 1:3:3)	m ³	6.78	0	30,410	422,790	0	206,180	2,866,516		3,072,696
										Sub Total	25,024,426
IV. ROOFING WORK											
S-B5-Bq-17	Wood Truss	m ³	5.39	78,400	7,200	3,259,900	422,576	38,808	17,570,861		18,032,245
S-B5-Bq-18	Wood Purlin	m ³	5.40	0	5,300	2,435,400	0	28,620	13,151,160		13,179,780
S-B5-Bq-5	Timber Raften and Timber Batten	m ²	422.40	0	420	25,890	0	177,408	10,935,936		11,413,344
S-B5-Bq-11	Gutter Timber Batten	m ²	28.11	0	600	41,310	0	16,866	1,161,224		1,178,090
S-B5-Bq-12	Facing Timber Batten 30 x 300 mm	m ²	17.70	0	240	83,060	0	4,248	1,470,162		1,474,410
S-B5-Bq-32	Roof Ventilation Frame	m ²	0.35	0	480	3,183,590	0	168	1,114,257		1,114,425
S-B5-Bq-14	Aluminium Sheet	m ²	0	0	19,580	58,410	0	0	0		0
S-B5-Bq-13	Plywood Roof Cover	m ²	422.40	0	2,090	28,020	0	882,816	11,835,648		12,718,464
S-B5-Bq-9	Asphalt Sheet Roof Cover	m ²	422.40	0	1,050	15,160	0	443,520	6,403,584		6,847,104
S-B5-Bq-19	Termite Protection	L.S.	1.00	0	0	300,000	0	0	300,000		300,000
S-B5-Bq-20	Fiber Cement Roof Tile	m ²	4.06	0	800	13,200	0	3,248	53,592		56,840
S-B5-Bq-21	Truss Beugel & Roll	Kg	50.00	0	1,300	3,974	0	65,000	198,700		263,700
S-B5-Bq-3	Ceramic Roof Tile	m ²	422.40	0	12,150	40,350	0	5,132,160	17,043,810		22,176,000
S-B5-Bq-4	Ceramic Ridge Tile	m	56.45	0	8,790	46,890	0	496,196	2,646,941		3,143,136
										Sub Total	91,597,538
V. CONCRETE BLOCK WORK AND BRICKWORK											
S-B3-Bq-1	Brickwall/brickwork 1:3:10 1/2 brick thick	m ³	24.96	0	6,960	336,310	0	173,722	8,394,298		8,568,019
S-B3-Bq-2	Brickwall/brickwork 1:3 1/2 brick thick	m ³	3.37	0	16,610	368,140	0	55,976	1,240,632		1,296,608
										Sub Total	9,864,627
VI. PLASTER WORK											
S-B3-Bq-4	Mortar plastering 15 mm of thickness, 1:3	m ²	56.11	0	900	9,100	0	50,499	510,601		561,100
S-B3-Bq-3	Mortar plastering 15 mm of thickness, 1:3:10	m ²	332.86	0	400	7,200	0	133,144	2,396,592		2,529,736
S-B3-Bq-5	Mortar plastering 15 mm of thickness, 1:2	m ²	300.24	0	1,200	10,000	0	360,288	3,002,400		3,362,688
S-B6-Bq-8	Terracota	m ²	41.51	0	9,660	36,350	0	400,987	1,517,191		1,918,177
										Sub Total	8,371,701
VII. DOORS AND WINDOW WORKS											
S-B8-Bq-4	Aluminium awkening	m	34.30	0	7,950	67,320	0	272,685	2,309,078		2,581,761
S-B8-Bq-5	Aluminium Rolling Door	m ²	50.40	0	26,780	90,570	0	1,349,712	4,564,728		5,914,440
S-B8-Bq-6	Aluminium Door Frame	m	23.60	0	6,330	63,540	0	149,388	1,499,344		1,648,932
S-B8-Bq-7	Aluminium Sliding Window Frame	m	38.90	0	6,330	42,860	0	246,237	1,667,254		1,913,491
S-B8-Bq-8	Door Keys for Aluminium Door	pieces	2.00	0	15,600	48,370	0	31,200	97,140		128,340
S-B8-Bq-9	Espagnolette	pieces	2.00	0	10,920	37,650	0	21,840	75,300		97,140
S-B8-Bq-10	Door Hings (125 mm)	pieces	4.00	0	1,320	15,930	0	5,280	63,800		69,080
S-B8-Bq-11	Windows Hings (75 mm)	pieces	4.00	0	1,320	15,930	0	5,280	63,800		69,080
S-B8-Bq-1	Wood Frame for Ventilation	m ³	0.26	0	480	3,183,590	0	125	827,733		827,858
S-B8-Bq-13	Door Stopper	pieces	4.00	0	12,480	41,290	0	49,920	165,160		215,080
										Sub Total	13,465,202
VIII. GLAZING WORK											
S-B9-Bq-8	Float Glass H = 5 mm, (Natural Colour)	m ²	7.28	0	14,900	36,850	0	108,472	268,268		376,740
										Sub Total	376,740
IX. INTERIOR FINISHING											
S-B10-Bq-1	Fiber Cement Ceiling, 1200 x 1200 mm x 6 mm + Ceiling Frame	m ²	180.00	0	2,220	85,170	0	399,600	15,330,600		15,730,200
S-B10-Bq-2	Wood Cornice	m	76.00	0	30	4,810	0	2,280	365,560		367,840
										Sub Total	16,098,040
X. TILE WORK											
S-B6-Bq-3	Ceramic Floor Tile, 300 x300 mm	m ²	81.00	0	9,660	36,550	0	782,460	2,960,550		3,743,010
S-B6-Bq-4	Ceramic Floor Tile, 300 x300 mm, (Notalip Texture)	m ²	15.85	0	9,660	36,550	0	153,111	579,318		732,429
S-B6-Bq-5	Wall Base Mortar Fin w/ Waterproof Paint	m	34.00	0	190	1,390	0	6,460	47,260		53,720
S-B9-Bq-7	Float Glass H = 100 mm, Rayband (For Wall base)	m	26.00	0	2,950	8,280	0	76,700	215,280		291,980
										Sub Total	4,821,139
XI. SANITAIR WORK											
S-B7-Bq-1	Water Supply Installation (PVC Pipes D= 19.05 mm)	m	32.00	0	0	36,700	0	0	1,174,400		1,174,400
S-B7-Bq-2	Waste Water Installation (PVC Pipes D= 110 mm)	m	0	0	2,750	55,470	0	0	0		0
										Sub Total	1,174,400
XII. ELECTRICAL WORK											
S-B11-Bq-1	Installation and Lighting 40W-1 FL	pieces	6.00	0	0	128,060	0	0	768,360		768,360
S-B11-Bq-2	Installation and Lighting 40W-2 FL	pieces	11.00	0	0	233,060	0	0	2,563,660		2,563,660
S-B11-Bq-3	Installation and Lighting 20W-1 FL	pieces	5.00	0	0	108,060	0	0	540,300		540,300
S-B11-Bq-4	Installation and Lighting 15W-2 FL	pieces	0	0	0	185,560	0	0	0		0
S-B11-Bq-5	Installation and Lighting 15W-1 FL	pieces	0	0	0	103,060	0	0	0		0
S-B11-Bq-24	Installation and Lighting 10W-1 FL	pieces	0	0	0	70,560	0	0	0		0
S-B11-Bq-25	Installation and Lighting 250W-1 H	pieces	0	0	0	1,283,060	0	0	0		0
S-B11-Bq-16	Water Pump	pieces	0	0	0	600,000	0	0	0		0
S-B11-Bq-7	Fuse	pieces	3.00	0	0	26,310	0	0	78,930		78,930
S-B11-Bq-8	Lighting Switch (Single)	pieces	1.00	0	0	10,440	0	0	10,440		10,440
S-B11-Bq-9	Lighting Switch (Double)	pieces	7.00	0	0	10,440	0	0	73,080		73,080
S-B11-Bq-10	Outlet Socket Switch	pieces	5.00	0	0	11,440	0	0	57,200		57,200
S-B11-Bq-11	Outlet Socket Installation	pieces	5.00	0	0	32,420	0	0	162,100		162,100
S-B11-Bq-14	Fuse Box	pieces	1.00	0	0	31,310	0	0	31,310		31,310
S-B11-Bq-23	New Installation from PLN for 1300 VA	pieces	1.00	0	0	528,000	0	0	528,000		528,000
										Sub Total	4,813,380
XIII. PAINTING WORK											
S-B9-Bq-1	Wall Painting	m ²	407.70	0	1,430	8,570	0	583,011	3,493,989		4,077,000
S-B9-Bq-2	Wood Painting	m ²	137.48	0	4,100	14,800	0	363,668	2,034,704		2,598,372
S-B9-Bq-13	Wood Protection Painting	L.S.	1.00	0	0	300,000	0	0	300,000		300,000
S-B9-Bq-9	Stairs/Steel Protection Painting	m ²	0	0	80	7,690	0	0	0		0
S-B9-Bq-3	Ceiling Painting	m ²	344.30	0	1,440	8,660	0	495,792	2,981,638		3,477,430
										Sub Total	10,432,802
										Total Cost	198,216,563

Table 4.2.6 (2/5) SUMMARY OF CONSTRUCTION COST FOR BUILDINGS IN PACKAGE-2

CONSTRUCTION COST OF MANAGEMENT OFFICE

ID No.	Item	Unit	Quantity	Unit Cost			Cost			Total	
				P/B/C	H/C	L/C	P/B/C	H/C	L/C		
I. EXCAVATION, FILLING, AND GRADING WORK											
S-B1-Bq-1	Earth Cut, 1 m depth	m ³	96.83	0	0	16,000	0	0	1,549,280	1,549,280	
S-B1-Bq-2	Earth Fill (Old)	m ³	34.10	0	0	7,700	0	0	262,570	262,570	
S-B1-Bq-3	Earth Fill (New)	m ³	17.25	502	493	17,061	8,660	8,546	294,304	311,510	
S-B1-Bq-4	Sand Fill	m ³	14.36	0	1,620	41,800	0	23,263	600,248	623,511	
S-B1-Bq-5	Sand Fill Under Foundation	m ³	8.71	0	1,620	41,800	0	14,110	364,078	378,188	
										Sub Total	3,125,060
II. FOUNDATION WORK											
S-B2-Bq-1	Dry Stone Masonry	m ³	14.74	0	2,900	96,000	0	42,716	1,415,040	1,457,786	
S-B2-Bq-3	Stone Masonry 1:3:10	m ³	7.04	0	9,800	166,600	0	68,992	1,172,864	1,241,856	
S-B2-Bq-2	Brick block 1:3:10	m ³	5.69	0	6,960	376,310	0	39,602	1,856,704	1,896,306	
										Sub Total	4,595,948
III. REINFORCEMENT CONCRETE WORK											
S-B4-Bq-1	Concrete K-225	m ³	4.19	0	43,680	184,460	0	183,019	772,887	955,907	
S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	1,605.64	0	1,203	9,128	0	1,931,535	14,656,282	16,587,867	
S-B4-Bq-8	Steel Bar Deformed Dia. 16 mm	Kg		0	1,286	9,320	0	0	0	0	
S-B4-Bq-2	Light Concrete (Concrete 1:3:5)	m ³	10.05	0	30,410	422,790	0	305,621	4,249,040	4,554,660	
										Sub Total	22,098,433
IV. ROOFING WORK											
S-B5-Bq-17	Wood Truss	m ³	2.60	78,400	7,200	3,259,900	203,840	18,720	8,475,740	8,698,300	
S-B5-Bq-18	Wood Purlin	m ³	1.75	0	5,200	2,435,400	0	9,275	4,261,950	4,271,225	
S-B5-Bq-5	Timber Rafters and Timber Batten	m ²	296.21	0	420	25,890	0	124,408	2,668,877	2,793,285	
S-B5-Bq-11	Outlet Timber Batten	m ²	17.40	0	600	41,310	0	10,440	718,794	729,234	
S-B5-Bq-12	Facing Fibre Board 30 x 300 mm	m ²	2.22	0	240	83,060	0	533	184,393	184,926	
S-B5-Bq-32	Roof Ventilation Frame	m ³	0.66	0	480	3,183,390	0	317	2,101,169	2,101,486	
S-B5-Bq-14	Aluminium Sheet	m ²	14.00	0	19,580	58,410	0	274,120	817,740	1,091,860	
S-B5-Bq-13	Plywood Roof Cover	m ²	296.21	0	2,090	28,020	0	619,079	8,299,804	8,918,883	
S-B5-Bq-9	Asphalt Sheet Roof Cover	m ²	296.21	0	1,050	15,160	0	311,021	4,490,544	4,801,564	
S-B5-Bq-19	Terrace Protection	L.S	1.00	0	0	300,000	0	0	300,000	300,000	
S-B5-Bq-20	Fiber Cement Roof Tile	m ²	1.06	0	800	13,200	0	848	13,992	14,840	
S-B5-Bq-21	Truss Beugel & Bolt	Kg	30.00	0	1,300	3,974	0	39,000	119,220	158,220	
S-B5-Bq-3	Ceramic Roof Tile	m ²	296.21	0	12,150	40,350	0	3,598,352	11,952,074	15,551,025	
S-B5-Bq-4	Ceramic Ridge Tile	m	44.00	0	8,790	46,890	0	386,760	2,063,160	2,449,920	
										Sub Total	57,064,769
V. CONCRETE BLOCK WORK AND BRICKWORK											
S-B3-Bq-1	Brickwork/brickwork 1:3:10 1/2 brick thick	m ³	16.62	0	6,960	336,310	0	115,675	5,589,422	5,705,147	
S-B3-Bq-2	Brick wall/brickwork 1:3 1/2 brick thick	m ³	3.72	0	16,610	368,140	0	61,789	1,369,481	1,431,270	
										Sub Total	7,136,417
VI. PLASTER WORK											
S-B3-Bq-4	Mortar plastering 15 mm of thickness, 1:3	m ²	62.07	0	900	9,100	0	55,883	564,837	620,700	
S-B3-Bq-3	Mortar plastering 15 mm of thickness, 1:3:10	m ²	289.41	0	400	7,200	0	115,764	2,083,752	2,199,516	
S-B3-Bq-5	Mortar plastering 15 mm of thickness, 1:2	m ²	22.79	0	1,200	10,000	0	27,348	227,900	255,248	
S-B6-Bq-8	Terraces	m ²	31.60	0	9,660	36,550	0	305,256	1,154,980	1,460,236	
										Sub Total	4,535,700
VII. DOORS AND WINDOW WORKS											
S-B8-Bq-4	Aluminium awakening	m	189.07	0	7,950	67,320	0	1,503,107	12,728,192	14,231,299	
S-B8-Bq-2	Double Plywood Door	m ²		0	5,010	143,830	0	0	0	0	
S-B8-Bq-6	Aluminium Door Frame	m	49.00	0	6,320	63,540	0	310,170	3,113,460	3,423,630	
S-B8-Bq-7	Aluminium Sliding Window Frame	m	126.44	0	6,330	42,860	0	800,365	5,419,218	6,219,584	
S-B8-Bq-5	Door Keys for Aluminium Door	pieces	4.00	0	15,600	48,570	0	62,400	194,280	256,680	
S-B8-Bq-14	Door Keys for Wood Door	pieces	4.00	0	11,550	39,110	0	46,200	156,440	202,640	
S-B8-Bq-15	Door Keys for Toilet Door	pieces	1.00	0	15,600	48,570	0	15,600	48,570	64,170	
S-B8-Bq-9	Esapandete	pieces	3.00	0	10,926	37,650	0	32,760	112,950	145,710	
S-B8-Bq-10	Door Hinge (125 mm)	pieces	11.00	0	1,200	15,950	0	14,520	175,450	189,970	
S-B8-Bq-11	Windows Hinge (75 mm)	pieces	6.00	0	1,320	15,950	0	7,920	95,700	103,620	
S-B8-Bq-1	Wood Frame for Ventilation	m ³	0.41	0	480	3,183,590	0	197	1,305,272	1,305,469	
S-B8-Bq-13	Door Stopper	pieces	8.00	0	12,480	41,290	0	99,840	330,320	430,160	
										Sub Total	26,572,931
VIII. GLAZING WORK											
S-B9-Bq-8	Floor Glass II = 5 mm, (Natural Colour)	m ²	29.78	0	14,900	36,850	0	443,722	1,097,393	1,541,115	
S-B9-Bq-10	Floor Glass II = 8 mm, (Natural Colour)	m ²	2.20	0	28,010	67,420	0	61,622	148,324	209,946	
S-B9-Bq-11	Minor for Lavatory 5 mm	m ²	0.24	0	25,030	60,480	0	6,007	14,515	20,522	
S-B9-Bq-12	Etching Glass 5 mm	m ²	0.18	0	14,900	36,850	0	2,682	6,633	9,315	
										Sub Total	1,780,898
IX. MISCELLANEOUS METAL WORK											
S-B13-Bq-1	Ventilation Hole	Kg	29.00	7,133	0	5,742	206,857	0	166,518	373,375	
										Sub Total	373,375
X. INTERIOR FINISHING											
S-B10-Bq-1	Fiber Cement Ceiling, 1200 x 1200 mm x 6 mm + Ceiling Fan	m ²	170.40	0	2,220	85,170	0	378,288	14,512,968	14,891,256	
S-B10-Bq-2	Wood Cornice	m	186.00	0	20	4,810	0	5,580	894,660	900,240	
										Sub Total	15,791,496
XI. TILE WORK											
S-B6-Bq-3	Ceramic Floor Tile, 300 x 300 mm	m ²	104.00	0	9,660	36,550	0	1,004,640	3,801,200	4,805,840	
S-B6-Bq-4	Ceramic Floor Tile, 300 x 300 mm, (Non-slip Texture)	m ²	34.26	0	9,660	36,550	0	330,952	1,252,203	1,583,155	
S-B6-Bq-1	Ceramic Floor Tile, 200 x 200 mm	m ²	13.44	0	9,660	36,550	0	129,830	491,232	621,062	
S-B6-Bq-2	Ceramic Floor Tile, 200 x 200 mm, (Non-slip Texture)	m ²	2.13	0	9,660	36,550	0	30,236	114,402	144,637	
S-B9-Bq-7	Floor Glass II = 100 mm, Rayband (For Wall base)	m	112.00	0	2,950	8,280	0	330,400	927,360	1,257,760	
										Sub Total	8,412,454
XII. SANITARY WORK											
S-B7-Bq-1	Water Supply Installation (PVC Pipes D= 19.05 mm)	m	12.00	0	0	36,700	0	0	440,400	440,400	
S-B7-Bq-2	Waste Water Installation (PVC Pipes D= 110 mm)	m	8.00	0	2,750	55,470	0	22,000	443,760	465,760	
										Sub Total	906,160
XIII. ELECTRICAL WORK											
S-B11-Bq-1	Installation and Lighting 40W-1 FL	pieces		0	0	128,060	0	0	0	0	
S-B11-Bq-2	Installation and Lighting 40W-2 FL	pieces	11.00	0	0	233,060	0	0	2,563,660	2,563,660	
S-B11-Bq-3	Installation and Lighting 20W-1 FL	pieces	9.00	0	0	108,060	0	0	972,540	972,540	
S-B11-Bq-4	Installation and Lighting 15W-2 FL	pieces		0	0	185,560	0	0	0	0	
S-B11-Bq-5	Installation and Lighting 15W-1 FL	pieces		0	0	103,060	0	0	0	0	
S-B11-Bq-24	Installation and Lighting 10W-1 FL	pieces		0	0	70,560	0	0	0	0	
S-B11-Bq-25	Installation and Lighting 250W-1 H	pieces		0	1,283,060	0	0	0	0	0	
S-B11-Bq-16	Water Pump	pieces	1.00	0	0	600,000	0	0	600,000	600,000	
S-B11-Bq-7	Fuse	pieces	3.00	0	0	26,310	0	0	78,930	78,930	
S-B11-Bq-8	Lighting Switch (Single)	pieces	5.00	0	0	10,440	0	0	52,200	52,200	
S-B11-Bq-9	Lighting Switch (Double)	pieces	3.00	0	0	10,440	0	0	31,320	31,320	
S-B11-Bq-10	Outlet Socket Switch	pieces	7.00	0	0	11,440	0	0	80,080	80,080	
S-B11-Bq-11	Outlet Socket Installation	pieces	7.00	0	0	32,420	0	0	226,940	226,940	
S-B11-Bq-14	Fuse Box	pieces	1.00	0	0	31,310	0	0	31,310	31,310	
S-B11-Bq-23	New Installation from PLN for 1300 VA	pieces	1.00	0	0	528,000	0	0	528,000	528,000	
										Sub Total	5,164,980
XIV. PAINTING WORK											
S-B9-Bq-1	Wall Painting	m ²	232.61	0	1,430	8,570	0	332,632	1,993,468	2,326,100	
S-B9-Bq-2	Wood Painting	m ²	11.96	0	4,100	14,800	0	49,006	177,008	226,044	
S-B9-Bq-15	Wood polyure	m ²	12.72	0	200	20,800	0	2,544	264,576	267,120	
S-B9-Bq-14	Wood Protection Painting	L.S	1.00	0	0	180,000	0	0	180,000	180,000	
S-B9-Bq-9	Stair/Steel Protection Painting	m ²	1.78	0	80	7,690	0	142	13,688	13,831	
S-B9-Bq-3	Ceiling Painting	m ²	170.40	0	1,440	8,660	0	245,376	1,475,664	1,721,040	
										Sub Total	4,734,135
XV. FURNITURE											
S-B12-Bq-3	Office Table	unit	6.00	0	0	500,000	0	0	3,000,000	3,000,000	
S-B12-Bq-1	Meeting Room Table	unit	1.00	0	0	2,125,000	0	0	2,125,000	2,125,000	
S-B12-Bq-2	Meeting Room Chair	unit	8.00	0	0	200,000	0	0	1,600,000	1,600,000	
S-B12-Bq-4	Filing Cabinet	unit	6.00	0	0	800,000	0	0	4,800,000	4,800,000	
S-B12-Bq-10	Sofa	unit	1.00	0	0	833,333	0	0	833,333	833,333	

Table 4.2.6 (3/5) SUMMARY OF CONSTRUCTION COST FOR BUILDINGS IN PACKAGE-2

CONSTRUCTION COST OF STAFF HOUSE

ID No.	Item	Unit	Quantity	Unit Cost			Cost			Total	
				IFC	IFC	L/C	IFC	IFC	L/C	IFC	L/C
I. EXCAVATION, FILLING, AND GRADING WORK											
S-B1-Bq-1	Earth Cut, 1 m depth	m3	58.95	0	0	16,600	0	0	943,200		943,200
S-B1-Bq-2	Earth Fill (Old)	m3	21.64	0	0	7,700	0	0	166,624		166,624
S-B1-Bq-3	Earth Fill (New)	m3	15.05	502	495	17,061	7,556	7,456	256,769		271,782
S-B1-Bq-4	Sand Fill	m3	5.02	0	1,620	41,800	0	8,132	209,836		217,968
S-B1-Bq-5	Sand Fill Under Foundation	m3	5.15	0	1,620	41,800	0	8,343	215,270		223,613
										Sub Total	1,823,191
II. FOUNDATION WORK											
S-B2-Bq-1	Dry Stone Masonry	m3	9.24	0	2,900	96,600	0	26,796	887,040		913,836
S-B2-Bq-3	Stone Masonry 1:3:10	m3	18.48	0	9,800	166,600	0	181,104	3,078,768		3,259,872
S-B2-Bq-2	Brick block 1:3:10	m3	3.33	0	6,960	326,310	0	23,873	1,119,243		1,143,116
										Sub Total	5,316,824
III. REINFORCEMENT CONCRETE WORK											
S-B4-Bq-1	Concrete K-225	m3	4.27	0	43,680	184,460	0	186,514	787,644		974,158
S-B4-Bq-7	Steel Bar Dia. 12mm	Rg	862.87	0	1,203	9,128	0	1,038,033	7,876,277		8,914,310
S-B4-Bq-2	Light Concrete (Concrete 1:3:5)	m3	3.51	0	30,410	422,790	0	106,739	1,483,993		1,590,732
										Sub Total	11,479,200
IV. ROOFING WORK											
S-B5-Bq-17	Wood Truss	m3	1.48	78,400	7,200	3,259,900	116,032	10,656	4,824,652		4,951,340
S-B5-Bq-18	Wood Purlin	m3	1.55	0	5,500	2,435,400	0	8,215	3,774,870		3,783,085
S-B5-Bq-5	Timber Rafters and Timber Batten	m2	137.88	0	420	25,890	0	57,910	3,569,713		3,627,623
S-B5-Bq-11	Outer Timber Batten	m2	23.79	0	600	41,310	0	14,274	982,765		997,039
S-B5-Bq-12	Lacing Timber Batten 30 x 300 mm	m2	18.12	0	240	83,060	0	4,349	1,505,047		1,509,396
S-B5-Bq-22	Roof Ventilation Frame	m3	0.36	0	480	3,183,590	0	173	1,146,092		1,146,265
S-B5-Bq-14	Aluminium Sheet	m2	9.50	0	19,580	58,410	0	186,010	554,895		740,905
S-B5-Bq-13	Plywood Roof Cover	m2	137.88	0	2,090	28,020	0	288,169	3,863,398		4,151,567
S-B5-Bq-9	Asphalt Sheet Roof Cover	m2	137.88	0	1,050	15,168	0	144,774	2,090,261		2,235,035
S-B5-Bq-19	Termite Protection	L.S	1.00	0	0	300,000	0	0	300,000		300,000
S-B5-Bq-20	Fiber Cement Roof Tile	m2	2.52	0	800	13,200	0	2,016	33,264		35,280
S-B5-Bq-21	Truss Beugel & Bolt	Kg	50.00	0	1,500	3,974	0	65,000	198,700		263,700
S-B5-Bq-3	Ceramic Roof Tile	m2	137.88	0	12,150	40,350	0	1,675,242	5,563,458		7,238,700
S-B5-Bq-4	Ceramic Ridge Tile	m	44.22	0	8,790	46,890	0	388,694	2,073,476		2,462,170
										Sub Total	33,442,104
V. CONCRETE BLOCK WORK AND BRICKWORK											
S-B3-Bq-1	Brick wall/brickwork 1:2:10 1/2 brick thick	m3	12.38	0	6,960	336,310	0	86,165	4,163,518		4,249,683
S-B3-Bq-2	Brick wall/brickwork 1:3 1/2 brick thick	m3	2.32	0	16,610	368,140	0	38,535	854,085		892,620
										Sub Total	5,142,303
VI. PLASTER WORK											
S-B3-Bq-4	Mortar plastering 15 mm of thickness, 1:2	m2	33.60	0	900	9,100	0	30,240	305,760		336,000
S-B3-Bq-3	Mortar plastering 15 mm of thickness, 1:3:10	m2	186.68	0	400	7,200	0	74,672	1,344,096		1,418,768
S-B3-Bq-5	Mortar plastering 15 mm of thickness, 1:2	m2	30.24	0	1,200	10,000	0	36,288	302,400		338,688
S-B6-Bq-8	Terracots	m2	24.48	0	9,660	36,550	0	226,477	894,744		1,131,221
										Sub Total	3,224,677
VII. DOORS AND WINDOW WORKS											
S-B8-Bq-4	Aluminium awaking	m	55.55	0	7,950	67,320	0	441,623	3,739,626		4,181,249
S-B8-Bq-2	Double Plywood Door	m2	0	0	5,010	143,830	0	0	0		0
S-B8-Bq-6	Aluminium Door Frame	m	31.30	0	6,330	63,540	0	198,129	1,988,802		2,186,931
S-B8-Bq-7	Aluminium Sliding Window Frame	m	42.81	0	6,330	42,860	0	270,987	1,834,837		2,105,824
S-B8-Bq-8	Door Keys for Aluminium Door	pieces	5.00	0	15,600	48,570	0	78,000	242,850		320,850
S-B8-Bq-14	Door Keys for Wood Door	pieces	1.00	0	11,550	39,110	0	0	0		0
S-B8-Bq-15	Door Keys for Toilet Door	pieces	1.00	0	15,600	48,570	0	15,600	48,570		64,170
S-B8-Bq-10	Door Hinges (125 mm)	pieces	6.00	0	1,320	15,950	0	7,920	95,700		103,620
S-B8-Bq-11	Door Hinges (75 mm)	pieces	1.00	0	1,320	15,950	0	1,320	15,950		17,270
S-B8-Bq-1	Wood Frame for Ventilation	m3	0.18	0	480	3,183,590	0	86	573,046		573,133
S-B8-Bq-16	Double Teakwood Door (w/ Louvre)	m2	1.18	0	500	546,200	0	590	644,516		645,106
										Sub Total	10,198,152
VIII. GLAZING WORK											
S-B9-Bq-8	Float Glass H = 5 mm, (Natural Colour)	m2	8.25	0	14,900	36,850	0	122,925	304,013		426,938
S-B9-Bq-11	Mirror for Lavatory 5 mm	m2	0.20	0	25,030	60,480	0	7,509	18,144		25,653
										Sub Total	452,591
IX. INTERIOR FINISHING											
S-B10-Bq-1	Fiber Cement Ceiling, 1200 x 1200 mm x 6 mm + Ceiling Fin	m2	92.88	0	2,220	85,170	0	206,194	7,910,590		8,116,783
S-B10-Bq-2	Wood Cornice	m	118.03	0	30	4,810	0	3,541	567,724		571,265
										Sub Total	8,688,048
X. TILE WORK											
S-B6-Bq-3	Ceramic Floor Tile, 300 x300 mm	m2	39.25	0	9,660	36,550	0	379,155	1,434,588		1,813,743
S-B6-Bq-4	Ceramic Floor Tile, 300 x300 mm, (Non-slip Texture)	m2	10.76	0	9,660	36,550	0	103,942	393,278		497,220
S-B6-Bq-1	Ceramic Floor Tile, 200 x 200 mm	m2	17.36	0	9,660	36,550	0	167,698	634,508		802,206
S-B6-Bq-2	Ceramic Floor Tile, 200 x 200 mm (Non-slip Texture)	m2	1.34	0	9,660	36,550	0	12,944	48,977		61,921
S-B9-Bq-7	Float Glass H = 100 mm, Rayband (For Wall base)	m	35.80	0	2,950	8,280	0	105,610	296,424		402,034
										Sub Total	3,577,123
XI. SANITARY WORK											
S-B7-Bq-1	Water Supply Installation (PVC Pipes D= 19.05 mm)	m	11.00	0	0	36,700	0	0	403,700		403,700
S-B7-Bq-2	Waste Water Installation (PVC Pipes D= 110 mm)	m	8.00	0	2,750	55,470	0	22,000	443,760		465,760
S-B7-Bq-5	Close	pieces	1.00	0	730	86,410	0	730	86,410		87,140
S-B7-Bq-6	Washbak	pieces	1.00	0	40	442,480	0	40	442,480		442,520
S-B7-Bq-11	Floor Drain	pieces	1.00	0	0	60,000	0	0	60,000		60,000
S-B7-Bq-3	Septic tank	unit	0	0	49,390	1,289,090	0	0	0		0
S-B7-Bq-14	Water Cock	pieces	4.00	0	0	67,530	0	0	270,120		270,120
S-B7-Bq-9	Bath Tub (Water tank)	pieces	1.00	0	200	140,170	0	200	140,170		140,370
S-B7-Bq-10	Kitchen table (Reinforcement Concrete)	m3	0.12	100	197,375	2,410,900	12	23,685	289,308		313,605
										Sub Total	2,182,615
XII. ELECTRICAL WORK											
S-B11-Bq-1	Installation and Lighting 40W-1 FL	pieces	2.00	0	0	128,060	0	0	256,120		256,120
S-B11-Bq-2	Installation and Lighting 40W-2 FL	pieces	3.00	0	0	233,060	0	0	699,180		699,180
S-B11-Bq-3	Installation and Lighting 20W-1 FL	pieces	0	0	0	108,060	0	0	0		0
S-B11-Bq-4	Installation and Lighting 15W-2 FL	pieces	0	0	0	185,560	0	0	0		0
S-B11-Bq-5	Installation and Lighting 15W-1 FL	pieces	3.00	0	0	103,060	0	0	309,180		309,180
S-B11-Bq-24	Installation and Lighting 10W-1 FL	pieces	3.00	0	0	70,560	0	0	211,680		211,680
S-B11-Bq-25	Installation and Lighting 250W-1 H	pieces	0	0	0	1,283,060	0	0	0		0
S-B11-Bq-12	Lighting Protector	pieces	0	0	0	750,000	0	0	0		0
S-B11-Bq-7	Fuse	pieces	2.00	0	0	26,310	0	0	52,620		52,620
S-B11-Bq-8	Lighting Switch (Single)	pieces	3.00	0	0	10,440	0	0	31,320		31,320
S-B11-Bq-9	Lighting Switch (Double)	pieces	3.00	0	0	10,440	0	0	31,320		31,320
S-B11-Bq-10	Outlet Socket Switch	pieces	6.00	0	0	11,440	0	0	68,640		68,640
S-B11-Bq-11	Outlet Socket Installation	pieces	6.00	0	0	32,420	0	0	194,520		194,520
S-B11-Bq-14	Fuse Box	pieces	1.00	0	0	31,310	0	0	31,310		31,310
S-B11-Bq-13	New Installation from PLN for 450 VA	pieces	1.00	0	0	108,000	0	0	108,000		108,000
										Sub Total	1,993,890
XIII. PAINTING WORK											
S-B9-Bq-1	Wall Painting	m2	387.46	0	1,430	8,570	0	554,068	3,320,532		3,874,600
S-B9-Bq-2	Wood Painting	m2	27.65	0	4,100	14,800	0	113,365	409,220		522,585
S-B9-Bq-14	Wood Protection Painting	L.S	1.00	0	0	180,000	0	0	180,000		180,000
S-B9-Bq-9	Stairs Steel Protection Painting	m2	0	0	80	7,690	0	0	0		0
S-B9-Bq-3	Ceiling Painting	m2	92.88	0	1,440	3,660	0	133,747	804,341		938,688
										Sub Total	5,515,273
XIV. FURNITURE											
S-B12-Bq-10	Sofa	unit	1.00	0	0	833,333	0	0	833,333		833,333
S-B12-Bq-11	Credensa	unit	1.00	0	0	350,000	0	0	350,000		350,000
S-B12-Bq-6	Dining Table	unit	1.00	0	0	658,333	0	0	658,333		658,333
S-B12-Bq-12	Dining Cupboard	unit	1.00	0	0	300,000	0	0	300,000		300,000
S-B12-Bq-13	Bed Room Set	unit	2.00	0	0	1,500,000	0	0	3,000,000		3,000,000
S-B12-Bq-8	Portable Stove	unit	1.00	0	0	500,000	0	0	500,000		500,000
S-B12-Bq-9	Kitchen Set	unit	1.00	0	0	1,000,000	0	0	1,000,000		1,000,000
										Sub Total	6,641,667
										Total Cost	93,835,990

Table 4.2.6 (4/5) SUMMARY OF CONSTRUCTION COST FOR BUILDINGS IN PACKAGE-2

CONSTRUCTION COST OF PUMP CONTROL BUILDING

ID No.	Item	Unit	Quantity	Unit Cost			Cost			Total
				P/C	B/C	L/C	P/C	B/C	L/C	
I. REINFORCEMENT CONCRETE WORK										
S-B4-Bq-1	Concrete K-225	m3	36.79	0	43,680	184,460	0	1,606,997	6,786,283	8,393,271
S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	2,623.63	0	1,203	9,128	0	3,156,227	23,948,495	27,104,722
S-B4-Bq-8	Steel Bar Deformed Dia. 16 mm	Kg	4,521.77	0	1,786	9,320	0	5,814,996	42,142,896	47,957,893
Sub Total										83,455,885
II. ROOFING WORK										
S-B5-Bq-22	Chanel C Purlin	Kg	3,572.10	6,310	0	5,699	22,539,951	0	20,357,398	42,897,349
S-B5-Bq-18	Wood Purlin	m3	0.86	0	5,300	2,435,400	0	4,558	2,094,444	2,099,002
S-B5-Bq-5	Timber Rafters and Timber Batten	m2	484.30	0	420	35,890	0	203,406	12,538,527	12,741,933
S-B5-Bq-11	Gutter Timber Batten	m2	13.21	0	600	41,310	0	7,926	545,705	553,631
S-B5-Bq-12	Facing Timber Batten 30 x 300 mm	m2	33.92	0	240	83,060	0	8,141	2,817,395	2,825,536
S-B5-Bq-32	Roof Ventilation Frame	m3	0.35	0	480	3,183,590	0	168	1,114,257	1,114,425
S-B5-Bq-13	Plywood Roof Cover	m2	484.30	0	2,090	28,020	0	1,012,187	13,570,086	14,582,273
S-B5-Bq-9	Asphalt Sheet Roof Cover	m2	484.30	0	1,050	15,160	0	508,515	7,341,988	7,850,503
S-B5-Bq-19	Fermité Protection	L.S	1.00	0	0	300,000	0	0	300,000	300,000
S-B5-Bq-20	Fiber Cement Roof Tile	m2	4.06	0	800	13,200	0	3,248	53,592	56,840
S-B5-Bq-21	Truss Beugel & Bolt	Kg	20.00	0	1,300	3,974	0	26,000	79,480	105,480
S-B5-Bq-3	Ceramic Roof Tile	m2	484.30	0	12,150	40,350	0	5,884,245	19,541,505	25,425,750
S-B5-Bq-4	Ceramic Block Work	m	33.92	0	8,790	46,890	0	298,157	1,590,509	1,888,666
Sub Total										112,441,387
III. CONCRETE BLOCK WORK AND BRICKWORK										
S-B3-Bq-1	Brickwall/brickwork 1:3:10 1/2 brick thick	m3	27.08	0	6,960	336,310	0	188,477	9,107,275	9,295,752
Sub Total										9,295,752
IV. PLASTER WORK										
S-B3-Bq-4	Mortar plastering 15 mm of thickness, 1:3	m2	0	0	900	9,100	0	0	0	0
S-B3-Bq-3	Mortar plastering 15 mm of thickness, 1:3:10	m2	451.25	0	400	7,200	0	180,540	3,249,720	3,430,260
S-B3-Bq-5	Mortar plastering 15 mm of thickness, 1:2	m2	287.59	0	1,200	10,000	0	345,108	2,875,900	3,221,008
S-B3-Bq-6	Hole Ridge Mortar Plastering	m	177.00	0	600	21,400	0	106,200	3,787,800	3,894,000
S-B6-Bq-8	Terra-cotta	m2	0	0	9,660	36,550	0	0	0	0
Sub Total										10,545,268
V. DOORS AND WINDOW WORKS										
S-B8-Bq-17	Light Concrete for Ventilation	pieces	59.00	0	30	2,830	0	1,770	166,970	168,740
Sub Total										168,740
VI. MISCELLANEOUS METAL WORK										
S-B13-Bq-11	Steel Door (Sliding)	Kg	109.52	6,310	0	7,173	691,071	0	785,587	1,476,658
S-B13-Bq-12	Steel Door (Swing)	Kg	103.50	6,310	0	7,173	653,085	0	742,406	1,395,491
S-B13-Bq-13	Steel Staircase	Kg	1,006.99	6,310	0	7,173	6,354,107	0	7,223,139	13,577,246
S-B13-Bq-14	Steel Grill for Pipe Line	Kg	112.14	6,310	0	7,173	707,603	0	804,380	1,511,984
S-B13-Bq-15	Steel Rail for Crab	Kg	1,114.50	6,310	0	7,173	7,032,495	0	7,994,309	15,026,804
S-B13-Bq-1	Ventilation Hole	Kg	188.17	7,133	0	5,742	1,342,217	0	1,080,472	2,422,689
Sub Total										35,410,871
VII. INTERIOR FINISHING										
S-B10-Bq-1	Fiber Cement Ceiling, 1200 x 1200 mm x 6 mm + Ceiling Frame	m2	0	0	2,220	85,170	0	0	0	0
S-B10-Bq-2	Wood Cornice	m	0	0	30	4,810	0	0	0	0
Sub Total										0
VIII. TILE WORK										
S-B3-Bq-7	Water Proofing Mortar H = 100 (for Wall Base)	m	47.75	0	190	1,390	0	9,073	66,373	75,445
S-B3-Bq-8	Concrete Plastering (for Floor)	m2	245.62	0	1,200	10,000	0	294,744	2,456,200	2,750,944
Sub Total										2,826,389
IX. SANITAIR WORK										
S-B7-Bq-1	Water Supply Installation (PVC Pipes D= 19.05 mm)	m	12.00	0	0	36,700	0	0	440,400	440,400
S-B7-Bq-2	Waste Water Installation (PVC Pipes D= 110 mm)	m	4.00	0	2,750	55,470	0	11,000	221,880	232,880
S-B7-Bq-5	Closet	pieces	0	0	730	86,410	0	0	0	0
S-B7-Bq-7	Hand Sink (Washtafel)	pieces	1.00	0	40	242,480	0	40	242,480	242,520
S-B7-Bq-11	Floor Drain	pieces	0	0	0	60,000	0	0	0	0
S-B7-Bq-3	Septic tank	unit	0	0	49,390	1,289,080	0	0	0	0
S-B7-Bq-14	Water Cock	pieces	1.00	0	0	67,530	0	0	67,530	67,530
S-B7-Bq-9	Bath Tub (Watertank)	pieces	0	0	200	140,170	0	0	0	0
Sub Total										983,330
XIII. ELECTRICAL WORK										
S-B11-Bq-1	Installation and Lighting 40W-1 FL	pieces	8.00	0	0	128,060	0	0	1,024,480	1,024,480
S-B11-Bq-2	Installation and Lighting 40W-2 FL	pieces	15.00	0	0	233,060	0	0	3,495,900	3,495,900
S-B11-Bq-3	Installation and Lighting 20W-1 FL	pieces	0	0	0	108,060	0	0	0	0
S-B11-Bq-4	Installation and Lighting 15W-2 FL	pieces	0	0	0	185,560	0	0	0	0
S-B11-Bq-5	Installation and Lighting 15W-1 FL	pieces	0	0	0	103,060	0	0	0	0
S-B11-Bq-24	Installation and Lighting 10W-1 FL	pieces	0	0	0	70,560	0	0	0	0
S-B11-Bq-25	Installation and Lighting 250W-1 H	pieces	3.00	0	0	1,283,060	0	0	3,849,180	3,849,180
S-B11-Bq-12	Lightning Protector	pieces	3.00	0	0	750,000	0	0	2,250,000	2,250,000
S-B11-Bq-7	Fuse	pieces	3.00	0	0	26,310	0	0	78,930	78,930
S-B11-Bq-8	Lighting Switch (Single)	pieces	2.00	0	0	10,440	0	0	20,880	20,880
S-B11-Bq-9	Lighting Switch (Double)	pieces	6.00	0	0	10,440	0	0	62,640	62,640
S-B11-Bq-10	Outlet Socket Switch	pieces	5.00	0	0	11,440	0	0	57,200	57,200
S-B11-Bq-11	Outlet Socket Installation	pieces	5.00	0	0	32,420	0	0	162,100	162,100
S-B11-Bq-17	Extinguisher	pieces	3.00	0	0	1,500,000	0	0	4,500,000	4,500,000
S-B11-Bq-14	Fuse Box	pieces	1.00	0	0	31,310	0	0	31,310	31,310
S-B11-Bq-19	New Installation from PLN for 2200 VA	pieces	1.00	0	0	528,000	0	0	528,000	528,000
Sub Total										16,060,620
XIV. PAINTING WORK										
S-B9-Bq-1	Wall Painting	m2	686.68	0	1,430	8,570	0	981,952	5,884,848	6,866,800
S-B9-Bq-2	Wood Painting	m2	251.86	0	4,100	14,800	0	1,032,626	3,727,528	4,760,154
S-B9-Bq-14	Wood Protection Painting	L.S	0	0	0	180,000	0	0	0	0
S-B9-Bq-9	Stains/Steel Protection Painting	m2	45.44	0	80	7,690	0	3,635	349,434	353,069
S-B9-Bq-3	Ceiling Painting	m2	476.35	0	1,440	8,660	0	685,944	4,125,191	4,811,135
Sub Total										16,791,158
Total Cost										287,979,399

Table 4.2.6 (5/5) SUMMARY OF CONSTRUCTION COST FOR BUILDINGS IN PACKAGE-2

CONSTRUCTION COST OF EXTERNAL WORK

ID No.	Item	Unit	Quantity	Unit Cost			Cost			Total
				PF/C	IF/C	L/C	PF/C	IF/C	L/C	
I. TEMPORARY WORK										
S-B14-Bq-1	Uitziel & Bouwplank	m2	519.00	0	0	3,500	0	0	1,816,500	1,816,500
S-B14-Bq-2	Water & Electricity for Work	L.S	1.00	0	0	3,750,000	0	0	3,750,000	3,750,000
S-B14-Bq-3	Administration & Documentation	L.S	1.00	0	0	2,500,000	0	0	2,500,000	2,500,000
									Sub Total	8,066,500
II. EXCAVATION, FILLING, AND GRADING WORK										
S-B1-Bq-1	Earth Cut, 1 m depth	m3	0	0	16,000	0	0	0	0	0
S-B1-Bq-4	Sand Fill	m3	0	1,620	41,800	0	0	0	0	0
									Sub Total	0
III. FOUNDATION WORK										
S-B2-Bq-1	Dry Stone Masonry	m3	0	2,900	96,000	0	0	0	0	0
S-B2-Bq-3	Stone Masonry 1:3:10	m3	0	9,800	166,600	0	0	0	0	0
S-B2-Bq-2	Brick block 1:3:10	m3	0	6,960	326,310	0	0	0	0	0
S-B3-Bq-4	Mortar plastering 15 mm of thickness, 1:3	m2	0	900	9,100	0	0	0	0	0
									Sub Total	0
IV. FENCE WORK										
S-B4-Bq-11	Fence's Tie Beam (RC)	m3	4.20	100	197,375	2,410,900	420	828,975	10,125,780	10,955,175
S-B4-Bq-10	Fence's Foundation (RC)	m3	0.82	100	203,755	2,127,660	82	167,079	1,744,681	1,911,842
S-B2-Bq-2	Brick block 1:3:10	m3	12.60	0	6,960	326,310	0	87,696	4,111,506	4,199,202
S-B13-Bq-3	Steel Fence	m	140.00	58,367	26,700	145,667	8,171,333	3,738,000	20,393,333	32,302,667
S-B13-Bq-4	Gate	m	11.00	0	0	63,000	0	0	715,000	715,000
									Sub Total	50,083,886
V. SANITAIR WORK										
S-B7-Bq-15	New Installation from PDAM	Unit	1.00	0	0	500,000	0	0	500,000	500,000
S-B7-Bq-1	Water Supply Installation (PVC Pipes D= 19.05 mm)	m	100.00	0	0	36,700	0	0	3,670,000	3,670,000
S-B7-Bq-2	Waste Water Installation (PVC Pipes D= 110 mm)	m	8.00	0	2,750	53,470	0	22,000	443,760	465,760
S-B7-Bq-13	Drainage U-300	m	310.00	0	2,400	36,500	0	744,000	11,315,000	12,059,000
S-B7-Bq-12	Drainage Box	pieces	16.00	0	12,330	134,950	0	197,120	2,159,200	2,356,320
S-B4-Bq-9	Precast RC	m3	3.50	100	197,375	2,410,900	350	690,813	8,438,150	9,129,313
									Sub Total	28,180,393
VI. ELECTRICAL WORK										
S-B11-Bq-9	Lighting Switch (Double)	pieces	7.00	0	0	10,440	0	0	73,080	73,080
S-B11-Bq-7	Fuse	pieces	3.00	0	0	26,310	0	0	78,930	78,930
S-B11-Bq-21	General Lighting Installation	pieces	13.00	0	0	53,060	0	0	689,780	689,780
S-B11-Bq-2	Installation and Lighting 40W-2 FL	pieces	13.00	0	0	233,060	0	0	3,029,780	3,029,780
S-B11-Bq-14	Fuse Box	pieces	1.00	0	0	31,310	0	0	31,310	31,310
									Sub Total	3,902,880
VII. LANDSCAPING										
S-B15-Bq-5	Paving Block	m2	71.44	0	5,700	44,800	0	407,208	3,200,512	3,607,720
S-B15-Bq-1	Paving Kersteen (Paving Border)	m	122.00	0	0	35,900	0	0	4,379,800	4,379,800
S-B15-Bq-2	Gravel	m3	21.50	0	1,360	31,260	0	29,240	672,090	701,330
S-B15-Bq-7	Plantation 3	m2	350.00	0	0	23,000	0	0	8,750,000	8,750,000
									Sub Total	17,438,850
									Total Cost	187,672,508

Table 4.2.7 (I/5) SUMMARY OF CONSTRUCTION COST FOR BUILDINGS IN PACKAGE-3

CONSTRUCTION COST OF GARAGE BUILDING

ID No.	Item	Unit	Quantity	Unit Cost			Cost			Total
				PF/C	IF/C	I/C	PF/C	IF/C	I/C	
I. EXCAVATION, FILLING, AND GRADING WORK										
S-B1-Bq-1	Earth Cut, 1 m depth	m ³	83.98	0	0	16,000	0	0	1,375,680	1,375,680
S-B1-Bq-2	Earth Fill (Old)	m ³	29.13	0	0	7,700	0	0	224,301	224,301
S-B1-Bq-3	Earth Fill (New)	m ³	10.37	502	493	17,061	20,268	20,091	688,756	729,025
S-B1-Bq-4	Sand Fill	m ³	11.29	0	1,620	41,600	0	18,290	471,922	490,212
S-B1-Bq-5	Sand Fill Under Foundation	m ³	8.13	0	1,620	41,800	0	13,171	339,834	353,005
Sub Total										3,172,222
II. FOUNDATION WORK										
S-B2-Bq-1	Dry Stone Masonry	m ³	16.34	0	2,900	56,000	0	47,966	1,587,840	1,635,806
S-B2-Bq-3	Stone Masonry 1:3:10	m ³	28.83	0	9,800	166,600	0	282,730	4,806,510	5,089,140
S-B2-Bq-2	Brick block 1:3:10	m ³	7.15	0	6,960	326,310	0	49,764	2,333,117	2,382,881
Sub Total										9,107,827
III. REINFORCEMENT CONCRETE WORK										
S-B4-Bq-1	Concrete K-225	m ³	9.23	0	43,680	184,460	0	404,040	1,706,255	2,110,295
S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	717.56	0	1,203	9,128	0	863,225	6,549,888	7,413,112
S-B4-Bq-8	Steel Bar Deformed Dia. 16 mm	Kg	1,171.82	0	1,286	9,320	0	1,506,961	10,921,362	12,428,323
S-B4-Bq-2	Light Concrete (Concrete 1:3:5)	m ³	6.78	0	30,410	422,790	0	206,180	2,866,516	3,072,696
Sub Total										25,024,426
IV. ROOFING WORK										
S-B5-Bq-17	Wood Truss	m ³	3.39	78,400	7,200	3,259,900	422,376	38,808	17,570,861	18,032,245
S-B5-Bq-18	Wood Purlin	m ³	3.40	0	3,200	2,435,400	0	28,620	13,151,160	13,179,780
S-B5-Bq-5	Timber Rafter and Timber Batten	m ²	422.40	0	420	25,890	0	177,108	10,935,936	11,113,344
S-B5-Bq-11	Gutter Timber Batten	m ²	28.11	0	600	41,310	0	16,866	1,161,224	1,178,090
S-B5-Bq-12	Facing Timber Batten 20 x 300 mm	m ²	17.70	0	240	83,060	0	4,218	1,470,162	1,474,410
S-B5-Bq-32	Roof Ventilation Frame	m ³	0.35	0	480	3,183,590	0	168	1,114,257	1,114,425
S-B5-Bq-14	Aluminium Sheet	m ²	0	0	19,380	58,410	0	0	0	0
S-B5-Bq-13	Plywood Roof Cover	m ²	422.40	0	2,090	28,020	0	882,816	11,835,648	12,718,464
S-B5-Bq-9	Asphalt Sheet Roof Cover	m ²	422.40	0	1,050	15,160	0	443,520	6,403,384	6,847,104
S-B5-Bq-19	Termite Protection	L.S	1.00	0	0	300,000	0	0	300,000	300,000
S-B5-Bq-20	Fiber Cement Roof Tile	m ²	4.06	0	800	13,200	0	3,248	53,592	56,840
S-B5-Bq-21	Truss Beugel & Bolt	Kg	50.00	0	1,200	3,914	0	65,000	198,700	263,700
S-B5-Bq-3	Ceramic Roof Tile	m ²	422.40	0	12,150	40,350	0	5,132,160	17,043,840	22,176,000
S-B5-Bq-4	Ceramic Ridge Tile	m	36.45	0	3,790	46,890	0	496,196	2,646,944	3,143,136
Sub Total										91,597,538
V. CONCRETE BLOCK WORK AND BRICKWORK										
S-B3-Bq-1	Brickwall/brickwork 1:3:10 1/2 brick thick	m ³	24.96	0	6,960	336,310	0	173,722	8,394,298	8,568,019
S-B3-Bq-2	Brickwall/brickwork 1:3 1/2 brick thick	m ³	3.37	0	16,610	368,140	0	35,976	1,240,632	1,296,608
Sub Total										9,864,627
VI. PLASTER WORK										
S-B3-Bq-4	Mortar plastering 15 mm of thickness, 1:3	m ²	56.11	0	900	9,100	0	30,499	510,601	561,100
S-B3-Bq-3	Mortar plastering 15 mm of thickness, 1:3:10	m ²	332.86	0	400	7,200	0	133,144	2,396,592	2,529,736
S-B3-Bq-5	Mortar plastering 15 mm of thickness, 1:2	m ²	300.24	0	1,200	10,000	0	360,288	3,002,400	3,362,688
S-B6-Bq-8	Terrazzo	m ²	41.51	0	9,660	36,550	0	400,987	1,517,191	1,918,177
Sub Total										8,371,701
VII. DOORS AND WINDOW WORKS										
S-B8-Bq-4	Aluminium awakening	m	34.30	0	7,950	67,320	0	272,685	2,309,076	2,581,761
S-B8-Bq-5	Aluminium Rolling Door	m ²	30.40	0	26,780	90,570	0	1,349,712	4,564,728	5,914,440
S-B8-Bq-6	Aluminium Door Frame	m	23.60	0	6,330	63,540	0	149,388	1,499,544	1,648,932
S-B8-Bq-7	Aluminium Sliding Window Frame	m	38.90	0	6,330	42,860	0	246,237	1,667,254	1,913,491
S-B8-Bq-8	Door Keys for Aluminium Door	pieces	2.00	0	15,600	48,570	0	31,200	97,140	128,340
S-B8-Bq-9	Espagnolette	pieces	2.00	0	10,920	37,650	0	21,840	75,300	97,140
S-B8-Bq-10	Door Hings (125 mm)	pieces	4.00	0	1,320	15,950	0	5,280	63,800	69,080
S-B8-Bq-11	Windows Hings (75 mm)	pieces	4.00	0	1,320	15,950	0	5,280	63,800	69,080
S-B8-Bq-1	Wood Frame for Ventilation	m ³	0.26	0	480	3,183,590	0	125	827,733	827,858
S-B8-Bq-13	Door Stopper	pieces	4.00	0	12,480	41,290	0	49,920	165,160	215,080
Sub Total										13,465,202
VIII. GLAZING WORK										
S-B9-Bq-3	Float Glass H = 5 mm, (Natural Colour)	m ²	7.28	0	14,900	36,850	0	108,472	268,268	376,740
Sub Total										376,740
IX. INTERIOR FINISHING										
S-B10-Bq-1	Fiber Cement Ceiling, 1200 x 1200 mm x 6 mm + Ceiling Frame	m ²	180.00	0	2,220	81,170	0	399,600	15,330,600	15,730,200
S-B10-Bq-2	Wood Cornice	m	76.00	0	30	4,810	0	2,280	365,560	367,840
Sub Total										16,098,040
X. TILE WORK										
S-B6-Bq-3	Ceramic Floor Tile, 300 x300 mm	m ²	81.00	0	9,660	36,550	0	782,460	2,960,550	3,743,010
S-B6-Bq-4	Ceramic Floor Tile, 300 x300 mm, (Norslip Texture)	m ²	15.85	0	9,660	36,550	0	153,111	579,318	732,429
S-B6-Bq-5	Wall Base Mortar Fin w/ Waterproof Paint.	m	34.00	0	190	1,390	0	6,460	47,260	53,720
S-B9-Bq-7	Float Glass H = 100 mm, Rayband (For Wall base)	m	26.00	0	2,950	8,280	0	76,700	215,280	291,980
Sub Total										4,821,139
XI. SANITAIR WORK										
S-B7-Bq-1	Water Supply Installation (PVC Pipes D= 19.05 mm)	m	32.00	0	0	36,700	0	0	1,174,400	1,174,400
S-B7-Bq-2	Waste Water Installation (PVC Pipes D= 110 mm)	m	0	0	2,750	55,470	0	0	0	0
Sub Total										1,174,400
XII. ELECTRICAL WORK										
S-B11-Bq-1	Installation and Lighting 40W-1 FL	pieces	6.00	0	0	128,060	0	0	768,360	768,360
S-B11-Bq-2	Installation and Lighting 40W-2 FL	pieces	11.00	0	0	233,060	0	0	2,563,660	2,563,660
S-B11-Bq-3	Installation and Lighting 20W-1 FL	pieces	5.00	0	0	108,060	0	0	540,300	540,300
S-B11-Bq-4	Installation and Lighting 15W-2 FL	pieces	0	0	0	185,560	0	0	0	0
S-B11-Bq-5	Installation and Lighting 15W-1 FL	pieces	0	0	0	103,060	0	0	0	0
S-B11-Bq-24	Installation and Lighting 10W-1 FL	pieces	0	0	0	70,560	0	0	0	0
S-B11-Bq-25	Installation and Lighting 250W-1 H	pieces	0	0	0	1,283,060	0	0	0	0
S-B11-Bq-16	Water Pump	pieces	0	0	0	600,000	0	0	0	0
S-B11-Bq-7	Fuse	pieces	3.00	0	0	26,310	0	0	78,930	78,930
S-B11-Bq-8	Lighting Switch (Single)	pieces	1.00	0	0	10,440	0	0	10,440	10,440
S-B11-Bq-9	Lighting Switch (Double)	pieces	7.00	0	0	10,440	0	0	73,080	73,080
S-B11-Bq-10	Outlet Socket Switch	pieces	5.00	0	0	11,440	0	0	57,200	57,200
S-B11-Bq-11	Outlet Socket Installation	pieces	5.00	0	0	32,420	0	0	162,100	162,100
S-B11-Bq-14	Fuse Box	pieces	1.00	0	0	31,310	0	0	31,310	31,310
S-B11-Bq-23	New Installation from PLN for 1300 VA	pieces	1.00	0	0	528,000	0	0	528,000	528,000
Sub Total										4,813,380
XIII. PAINTING WORK										
S-B9-Bq-1	Wall Painting	m ²	407.70	0	1,130	8,570	0	583,011	3,493,989	4,077,000
S-B9-Bq-2	Wood Painting	m ²	137.48	0	4,100	14,800	0	563,668	2,034,704	2,598,372
S-B9-Bq-13	Wood Protection Painting	L.S	1.00	0	0	300,000	0	0	300,000	300,000
S-B9-Bq-9	Stairs/Steel Protection Painting	m ²	0	0	89	7,690	0	0	0	0
S-B9-Bq-3	Ceiling Painting	m ²	344.30	0	1,440	8,660	0	495,792	2,981,638	3,477,430
Sub Total										10,452,802
Total Cost										198,340,043

Table 4.2.7 (2/5) SUMMARY OF CONSTRUCTION COST FOR BUILDINGS IN PACKAGE-3

CONSTRUCTION COST OF MANAGEMENT OFFICE

ID No.	Item	Unit	Quantity	Unit Cost		Cost		Total		
				P/F/C	H/C	P/F/C	H/C			
I. EXCAVATION, FILLING, AND GRADING WORK										
S-B1-Bq-1	Fill Cut, 1m depth	m3	96.83	0	0	16,000	0	1,549,380	1,549,380	
S-B1-Bq-2	Fill (Fill) (20d)	m3	34.10	0	0	7,700	0	263,570	263,570	
S-B1-Bq-3	Fill (Fill) (New)	m3	17.23	502	495	17,061	8,660	8,544	294,301	
S-B1-Bq-4	Sand Fill	m3	14.36	0	1,620	41,800	0	21,265	603,511	
S-B1-Bq-5	Sand Fill Under Foundation	m3	8.71	0	1,620	41,800	0	14,110	378,183	
									Sub Total	
									3,125,000	
II. FOUNDATION WORK										
S-B2-Bq-1	Dry Stone Masonry	m3	14.74	0	2,900	96,000	0	42,746	1,415,040	
S-B2-Bq-2	Stone Masonry 1:3:10	m3	7.04	0	9,800	166,600	0	68,992	1,172,864	
S-B2-Bq-2	Brick block 1:3:10	m3	5.69	0	6,900	326,310	0	39,602	1,806,306	
									Sub Total	
									4,595,948	
III. REINFORCEMENT CONCRETE WORK										
S-B3-Bq-1	Concrete K-225	m3	4.19	0	43,680	184,460	0	183,019	772,887	
S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	1,605.64	0	1,203	9,128	0	1,911,583	14,636,282	
S-B4-Bq-8	Steel Bar Deformed Dia. 16 mm	Kg	0	0	1,286	9,320	0	0	0	
S-B4-Bq-2	Light Concrete (Concrete 1:3:3)	m3	10.05	0	30,410	422,790	0	305,621	4,454,660	
									Sub Total	
									27,096,433	
IV. ROOFING WORK										
S-B5-Bq-17	Wood Purlin	m3	2.60	78,400	7,200	3,259,900	203,840	18,720	8,415,740	
S-B5-Bq-18	Wood Purlin	m3	1.75	0	5,300	2,435,400	0	9,273	4,261,050	
S-B5-Bq-5	Timber Rafters and Timber Batten	m2	296.21	0	420	25,800	0	124,408	7,668,877	
S-B5-Bq-11	Cutter Timber Batten	m2	17.40	0	600	41,310	0	10,440	718,794	
S-B5-Bq-12	Facing Timber Batten 30 x 300 mm	m2	2.22	0	240	83,060	0	533	184,393	
S-B5-Bq-32	Roof Ventilation Frame	m3	0.66	0	480	3,183,590	0	317	2,101,169	
S-B5-Bq-14	Aluminium Sheet	m2	14.00	0	19,580	58,410	0	274,120	817,740	
S-B5-Bq-13	Mywood Roof Cover	m2	296.21	0	2,090	28,020	0	619,079	8,299,804	
S-B5-Bq-9	Asphalt Sheet Roof Cover	m2	296.21	0	1,050	15,160	0	311,021	4,490,544	
S-B5-Bq-19	Termite Protection	L.S.	1.00	0	0	303,000	0	0	300,000	
S-B5-Bq-20	Fiber Cement Roof Tile	m2	4.06	0	800	13,200	0	3,248	53,392	
S-B5-Bq-21	Truss Bezel & Bolt	Kg	30.00	0	1,200	3,914	0	39,000	119,220	
S-B5-Bq-3	Ceramic Roof Tile	m2	296.21	0	12,150	40,350	0	3,598,932	11,952,074	
S-B5-Bq-4	Ceramic Ridge Tile	m	44.00	0	8,790	46,890	0	186,760	2,063,160	
									Sub Total	
									57,106,769	
V. CONCRETE BLOCK WORK AND BRICK WORK										
S-B3-Bq-1	Brickwork/brickwork 1:3:10 1/2 brick thick	m3	16.62	0	6,900	336,310	0	115,675	5,539,472	
S-B3-Bq-2	Brickwork/brickwork 1:3 1/2 brick thick	m3	3.72	0	16,610	368,130	0	61,789	1,269,481	
									Sub Total	
									7,136,417	
VI. PLASTER WORK										
S-B3-Bq-4	Mortar plastering 15 mm of thickness, 1:3	m2	62.07	0	900	9,100	0	53,863	584,837	
S-B3-Bq-3	Mortar plastering 15 mm of thickness, 1:3:10	m2	289.41	0	400	7,200	0	113,764	2,083,752	
S-B3-Bq-5	Mortar plastering 15 mm of thickness, 1:2	m2	22.79	0	1,200	10,000	0	27,348	227,900	
S-B6-Bq-8	Terracota	m2	31.60	0	9,660	36,550	0	305,256	1,154,986	
									Sub Total	
									4,515,700	
VII. DOORS AND WINDOW WORKS										
S-B8-Bq-4	Aluminium window	m	189.07	0	7,950	67,320	0	1,503,107	12,728,192	
S-B8-Bq-2	Double Plywood Door	m2	5.010	0	143,830	0	0	0	0	
S-B8-Bq-6	Aluminium Door Frame	m	49.00	0	6,330	63,540	0	310,120	3,113,460	
S-B8-Bq-7	Aluminium Sliding Window Frame	m	126.44	0	6,320	42,860	0	800,365	5,419,219	
S-B8-Bq-8	Door Keys for Aluminium Door	pieces	4.00	0	15,600	48,570	0	62,400	194,280	
S-B8-Bq-14	Door Keys for Wood Door	pieces	4.00	0	11,530	39,110	0	46,300	156,440	
S-B8-Bq-15	Door Keys for Toilet Door	pieces	1.00	0	15,600	48,570	0	15,600	48,570	
S-B8-Bq-9	Espressoette	pieces	3.00	0	10,920	32,650	0	32,760	112,950	
S-B8-Bq-10	Door Hinges (125 mm)	pieces	11.00	0	1,320	15,960	0	14,330	115,950	
S-B8-Bq-11	Windows Hinge (75 mm)	pieces	6.00	0	1,320	15,960	0	9,220	95,300	
S-B8-Bq-1	Wood Frame for Ventilation	m3	0.41	0	480	3,183,590	0	197	1,305,469	
S-B8-Bq-11	Door Stopper	pieces	5.00	0	12,490	41,290	0	99,840	330,320	
S-B8-Bq-16	Double Teakwood Door (w/ Louvre)	m2	6.36	0	500	546,200	0	3,180	3,475,832	
									Sub Total	
									30,049,943	
VIII. GLAZING WORK										
S-B9-Bq-8	Float Glass II = 5 mm, (Natural Colour)	m2	29.78	0	14,900	36,890	0	443,722	1,097,393	
S-B9-Bq-10	Float Glass II = 8 mm, (Natural Colour)	m2	2.20	0	78,010	67,470	0	61,622	148,324	
S-B9-Bq-11	Mirror for Lavatory 5 mm	m2	0.24	0	25,000	60,480	0	6,007	14,315	
S-B9-Bq-12	Etching Glass 5 mm	m2	0.18	0	14,900	36,890	0	2,682	6,633	
									Sub Total	
									1,780,996	
IX. MISCELLANEOUS METAL WORK										
S-B13-Bq-1	Ventilation Hole	Kg	29.00	7,133	0	5,742	206,837	0	166,318	373,375
									Sub Total	
									373,375	
X. INTERIOR FINISHING										
S-B10-Bq-1	Fiber Cement Ceiling, 1200 x 1200 mm x 6 mm + Ceiling Frame	m2	170.40	0	2,220	83,170	0	378,288	14,512,968	
S-B10-Bq-2	Wood Cornice	m	186.00	0	30	4,810	0	5,580	894,600	
									Sub Total	
									15,791,496	
XI. TILE WORK										
S-B6-Bq-3	Ceramic Floor Tile, 300 x 300 mm	m2	104.09	0	9,660	36,550	0	1,034,640	3,901,200	
S-B6-Bq-4	Ceramic Floor Tile, 300 x 300 mm, (Non-slip Texture)	m2	34.25	0	9,660	36,550	0	330,960	1,252,200	
S-B6-Bq-1	Ceramic Floor Tile, 200 x 200 mm	m2	13.44	0	9,660	36,550	0	129,820	491,232	
S-B6-Bq-2	Ceramic Floor Tile, 200 x 200 mm (Non-slip Texture)	m2	3.13	0	9,660	36,550	0	30,236	114,402	
S-B9-Bq-7	Float Glass II = 100 mm, Raybond (For Wall base)	m	112.00	0	2,950	8,280	0	330,400	927,260	
									Sub Total	
									8,412,454	
XII. SANITAIR WORK										
S-B7-Bq-1	Water Supply Installation (PVC Pipes D= 19.05 mm)	m	12.00	0	0	36,700	0	0	440,400	
S-B7-Bq-2	Waste Water Installation (PVC Pipes D= 110 mm)	m	8.00	0	2,750	55,470	0	22,000	443,760	
S-B7-Bq-5	Closet	pieces	1.00	0	730	86,410	0	730	86,410	
S-B7-Bq-6	Washbasin	pieces	1.00	0	40	442,480	0	40	442,480	
S-B7-Bq-11	Floor Drain	pieces	1.00	0	0	60,000	0	0	60,000	
S-B7-Bq-3	Septic tank	pieces	1.00	0	49,390	1,289,060	0	49,390	1,289,060	
S-B7-Bq-14	Water Cock	pieces	2.00	0	0	67,530	0	0	135,060	
S-B7-Bq-9	Bath Tub (Water-tank)	pieces	1.00	0	200	140,120	0	200	140,120	
S-B7-Bq-10	Kitchen table (Reinforcement Concrete)	m3	0.11	100	197,373	2,410,900	14	27,633	337,326	
									Sub Total	
									3,474,891	
XIII. ELECTRICAL WORK										
S-B11-Bq-1	Installation and Lighting 40W-1 FL	pieces	0	0	0	128,060	0	0	0	
S-B11-Bq-2	Installation and Lighting 40W-2 FL	pieces	11.00	0	0	231,060	0	0	2,563,660	
S-B11-Bq-3	Installation and Lighting 20W-1 FL	pieces	9.00	0	0	108,060	0	0	972,540	
S-B11-Bq-4	Installation and Lighting 15W-2 FL	pieces	0	0	0	185,560	0	0	0	
S-B11-Bq-5	Installation and Lighting 15W-1 FL	pieces	0	0	0	103,060	0	0	0	
S-B11-Bq-24	Installation and Lighting 10W-1 FL	pieces	0	0	0	79,560	0	0	0	
S-B11-Bq-25	Installation and Lighting 250W-1 FL	pieces	0	0	0	1,283,060	0	0	0	
S-B11-Bq-16	Water Pump	pieces	1.00	0	0	600,000	0	0	600,000	
S-B11-Bq-7	Fuse	pieces	3.00	0	0	26,310	0	0	78,930	
S-B11-Bq-8	Lighting Switch (Single)	pieces	5.00	0	0	10,440	0	0	52,200	
S-B11-Bq-9	Lighting Switch (Double)	pieces	3.00	0	0	10,440	0	0	31,320	
S-B11-Bq-10	Outlet Socket Switch	pieces	7.00	0	0	11,440	0	0	80,080	
S-B11-Bq-11	Outlet Socket Installation	pieces	7.00	0	0	32,420	0	0	226,940	
S-B11-Bq-14	Fuse Box	pieces	1.00	0	0	31,310	0	0	31,310	
S-B11-Bq-23	New Installation from PLN for 1300 VA	pieces	1.00	0	0	528,000	0	0	528,000	
									Sub Total	
									5,164,980	
XIV. PAINTING WORK										
S-B9-Bq-1	Wall Painting	m2	232.61	0	1,430	8,570	0	332,632	1,993,468	
S-B9-Bq-2	Wood Painting	m2	11.96	0	4,100	14,800	0	49,036	177,008	
S-B9-Bq-15	Wood polysty	m2	12.72	0	200	20,800	0	2,544	264,576	
S-B9-Bq-14	Wood Protection Painting	L.S.	1.00	0	0	180,000	0	0	180,000	
S-B9-Bq-9	Stair/Steel Protection Painting	m2	1.78	0	80	7,690	0	142	13,688	
S-B9-Bq-3	Ceiling Painting	m2	170.30	0	1,440	8,660	0	245,376	1,475,664	
									Sub Total	
									4,734,135	
XV. FURNITURE										
S-B12-Bq-3	Office Table	unit	6.00	0	0	500,000	0	0	3,000,000	
S-B12-Bq-1	Meeting Room Table	unit	1.00	0	0	2,125,000				

Table 4.2.7 (3/5) SUMMARY OF CONSTRUCTION COST FOR BUILDINGS IN PACKAGE-3

CONSTRUCTION COST OF STAFF HOUSE

ID No.	Item	Unit	Quantity	Unit Cost			Cost			Total
				P/F/C	H/C	L/C	P/F/C	H/C	L/C	
I. EXCAVATION, FILLING, AND GRADING WORK										
S-B1-Bq-1	Earth Cut, 1 m depth	m ³	58.95	0	0	16,000	0	0	943,390	943,390
S-B1-Bq-2	Earth F/R (Old)	m ³	21.64	0	0	7,700	0	0	166,628	166,628
S-B1-Bq-3	Earth F/R (New)	m ³	15.03	502	495	17,061	7,556	7,456	256,769	271,782
S-B1-Bq-4	Sand Fill	m ³	5.02	0	1,620	41,800	0	8,132	209,836	217,968
S-B1-Bq-5	Sand Fill Under Foundation	m ³	5.15	0	1,620	41,800	0	8,343	215,270	223,613
									Sub Total	1,823,791
II. FOUNDATION WORK										
S-B2-Bq-1	Dry Stone Masonry	m ³	9.24	0	2,900	96,000	0	26,796	887,040	913,836
S-B2-Bq-3	Stone Masonry 1:3:10	m ³	18.48	0	9,800	166,600	0	181,104	3,078,768	3,259,872
S-B2-Bq-2	Brick block 1:3:10	m ³	3.43	0	6,960	326,310	0	23,873	1,119,243	1,143,116
									Sub Total	5,316,824
III. REINFORCEMENT CONCRETE WORK										
S-B4-Bq-1	Concrete K-225	m ³	4.27	0	43,680	184,460	0	186,514	787,644	974,158
S-B4-Bq-2	Steel Bar Dia. 12 mm	Kg	862.87	0	1,203	9,123	0	1,038,033	7,876,277	8,914,310
S-B4-Bq-2	Light Concrete (Concrete 1:3:5)	m ³	3.51	0	39,410	422,790	0	106,739	1,483,993	1,590,732
									Sub Total	11,479,200
IV. ROOFING WORK										
S-B5-Bq-17	Wood Truss	m ³	1.48	78,400	7,200	3,259,900	116,032	10,656	4,824,652	4,951,340
S-B5-Bq-18	Wood Purlin	m ³	1.55	0	5,300	2,435,400	0	8,215	3,774,870	3,783,085
S-B5-Bq-5	Timber Rafters and Timber Batten	m ²	437.88	0	420	25,890	0	57,910	3,569,713	3,627,623
S-B5-Bq-11	Gutter Timber Batten	m ²	23.79	0	600	41,310	0	14,274	982,765	997,039
S-B5-Bq-12	Tacing Timber Batten 30 x 300 mm	m ²	18.12	0	240	83,060	0	4,349	1,505,047	1,509,396
S-B5-Bq-32	Roof Ventilation Frame	m ³	0.36	0	480	3,183,590	0	173	1,146,092	1,146,265
S-B5-Bq-14	Aluminium Sheet	m ²	9.50	0	19,580	58,410	0	186,010	554,895	740,905
S-B5-Bq-13	Plywood Roof Cover	m ²	137.88	0	2,090	28,020	0	288,169	3,863,398	4,151,567
S-B5-Bq-9	Asphalt Sheet Roof Cover	m ²	137.88	0	1,050	15,160	0	144,774	2,090,261	2,235,035
S-B5-Bq-19	Termitic Protection	L.S	1.00	0	0	300,000	0	0	300,000	300,000
S-B5-Bq-20	Fiber Cement Roof Tile	m ²	2.52	0	800	13,200	0	2,016	33,264	35,280
S-B5-Bq-21	Truss Cement & Bolt	Kg	50.00	0	1,300	3,974	0	65,000	198,700	263,700
S-B5-Bq-3	Ceramic Roof Tile	m ²	137.88	0	12,150	40,350	0	1,675,242	5,563,458	7,238,700
S-B5-Bq-4	Ceramic Ridge Tile	m	44.22	0	8,790	46,890	0	388,694	2,073,476	2,462,170
									Sub Total	33,442,104
V. CONCRETE BLOCK WORK AND BRICKWORK										
S-B3-Bq-1	Brickwork/brickwork 1:3:10 1/2 brick thick	m ³	12.38	0	6,960	336,310	0	86,165	4,163,518	4,249,683
S-B3-Bq-2	Brickwall/brickwork 1:3 1/2 brick thick	m ³	2.32	0	16,610	368,140	0	38,535	854,085	892,620
									Sub Total	5,142,303
VI. PLASTER WORK										
S-B3-Bq-4	Mortar plastering 15 mm of thickness, 1:3	m ²	33.60	0	900	9,100	0	30,240	305,760	336,000
S-B3-Bq-3	Mortar plastering 15 mm of thickness, 1:3:10	m ²	186.68	0	400	7,200	0	74,672	1,344,096	1,418,768
S-B3-Bq-5	Mortar plastering 15 mm of thickness, 1:2	m ²	30.24	0	1,200	10,000	0	36,288	302,400	338,688
S-B6-Bq-8	Terracota	m ²	24.48	0	9,660	36,550	0	236,477	894,744	1,131,221
									Sub Total	3,224,677
VII. DOORS AND WINDOW WORKS										
S-B8-Bq-4	Aluminium awakening	m	55.55	0	7,950	67,320	0	441,623	3,739,626	4,181,249
S-B8-Bq-2	Double Plywood Door	m ²	0	0	5,010	143,830	0	0	0	0
S-B8-Bq-6	Aluminium Door Frame	m	31.30	0	6,330	63,540	0	198,129	1,988,802	2,186,931
S-B8-Bq-7	Aluminium Sliding Window Frame	m	42.81	0	6,330	42,860	0	270,987	1,834,837	2,105,824
S-B8-Bq-8	Door Keys for Aluminium Door	pieces	5.00	0	15,600	48,570	0	78,000	242,850	320,850
S-B8-Bq-14	Door Keys for Wood Door	pieces	0	0	11,550	39,110	0	0	0	0
S-B8-Bq-15	Door Keys for Toilet Door	pieces	1.00	0	15,600	48,570	0	15,600	48,570	64,170
S-B8-Bq-10	Door Hinge (125 mm)	pieces	6.00	0	1,320	15,950	0	7,920	95,700	103,620
S-B8-Bq-11	Windows Hinge (75 mm)	pieces	1.00	0	1,320	15,950	0	1,320	15,950	17,270
S-B8-Bq-1	Wood Frame for Ventilation	m ³	0.18	0	480	3,183,590	0	86	573,046	573,133
S-B8-Bq-16	Double Teakwood Door (w/ Louver)	m ²	1.58	0	500	546,200	0	790	862,996	863,786
									Sub Total	10,416,832
VIII. GLAZING WORK										
S-B9-Bq-8	Floot Glass H = 5 mm, (Natural Colour)	m ²	8.25	0	14,900	36,890	0	122,925	304,013	426,938
S-B9-Bq-11	Mirror for Lavatory 5 mm	m ²	0.30	0	25,030	60,480	0	7,509	18,144	25,653
									Sub Total	452,591
IX. INTERIOR FINISHING										
S-B10-Bq-1	Fiber Cement Ceiling, 1200 x 1200 mm x 6 mm + Ceiling Frame	m ²	92.88	0	2,220	85,170	0	206,194	7,910,599	8,116,783
S-B10-Bq-2	Wood Cornice	m	118.03	0	30	4,810	0	3,541	567,724	571,265
									Sub Total	8,688,048
X. TILE WORK										
S-B6-Bq-3	Ceramic Floor Tile, 300 x300 mm	m ²	39.25	0	9,660	36,550	0	379,155	1,434,588	1,813,743
S-B6-Bq-4	Ceramic Floor Tile, 300 x300 mm (Non Slip Texture)	m ²	10.76	0	9,660	36,550	0	103,942	393,278	497,220
S-B6-Bq-1	Ceramic Floor Tile, 200 x 200 mm	m ²	17.36	0	9,660	36,550	0	167,698	634,508	802,206
S-B6-Bq-2	Ceramic Floor Tile, 200 x 200 mm (Non Slip Texture)	m ²	1.34	0	9,660	36,550	0	12,944	48,977	61,921
S-B9-Bq-7	Floot Glass H = 100 mm, Rayband (For Wall base)	m	35.80	0	2,950	8,280	0	105,610	296,424	402,034
									Sub Total	3,577,123
XI. SANITAIR WORK										
S-B7-Bq-1	Water Supply Installation (PVC Pipes D= 19.05 mm)	m	11.00	0	0	36,700	0	0	403,700	403,700
S-B7-Bq-2	Waste Water Installation (PVC Pipes D= 110 mm)	m	8.00	0	2,750	55,470	0	22,000	443,760	465,760
S-B7-Bq-5	Closet	pieces	1.00	0	730	86,410	0	730	86,410	87,140
S-B7-Bq-6	Washbak	pieces	1.00	0	40	442,480	0	40	442,480	442,520
S-B7-Bq-11	Floor Drain	pieces	1.00	0	0	60,000	0	0	60,000	60,000
S-B7-Bq-3	Septic tank	unit	0	0	49,390	1,289,080	0	0	0	0
S-B7-Bq-14	Water Cuck	pieces	4.00	0	0	67,530	0	0	270,120	270,120
S-B7-Bq-9	Bath Tub (Watertank)	pieces	1.00	0	200	140,170	0	200	140,170	140,370
S-B7-Bq-10	Kitchen table (Reinforcement Concrete)	m ³	0.12	100	197,375	2,410,900	12	23,685	289,308	313,005
									Sub Total	2,182,615
XII. ELECTRICAL WORK										
S-B11-Bq-1	Installation and Lighting 40W-1 FL	pieces	2.00	0	0	128,060	0	0	256,120	256,120
S-B11-Bq-2	Installation and Lighting 40W-2 FL	pieces	3.00	0	0	233,060	0	0	699,180	699,180
S-B11-Bq-3	Installation and Lighting 20W-1 FL	pieces	0	0	0	108,060	0	0	0	0
S-B11-Bq-4	Installation and Lighting 15W-2 FL	pieces	0	0	0	185,580	0	0	0	0
S-B11-Bq-5	Installation and Lighting 15W-1 FL	pieces	3.00	0	0	103,060	0	0	309,180	309,180
S-B11-Bq-24	Installation and Lighting 10W-1 FL	pieces	3.00	0	0	70,560	0	0	211,680	211,680
S-B11-Bq-25	Installation and Lighting 250W-1 H	pieces	0	0	0	1,283,060	0	0	0	0
S-B11-Bq-12	Lightning Protector	pieces	1.00	0	0	750,000	0	0	750,000	750,000
S-B11-Bq-7	Fuse	pieces	2.00	0	0	26,310	0	0	52,620	52,620
S-B11-Bq-8	Lighting Switch (Single)	pieces	3.00	0	0	10,440	0	0	31,320	31,320
S-B11-Bq-9	Lighting Switch (Double)	pieces	3.00	0	0	10,440	0	0	31,320	31,320
S-B11-Bq-10	Outlet Socket Switch	pieces	6.00	0	0	11,440	0	0	68,640	68,640
S-B11-Bq-11	Outlet Socket Installation	pieces	6.00	0	0	32,420	0	0	194,520	194,520
S-B11-Bq-14	Fuse Box	pieces	0	0	0	31,310	0	0	0	0
S-B11-Bq-13	New Installation from PLN for 450 VA	pieces	1.00	0	0	108,000	0	0	108,000	108,000
									Sub Total	2,712,580
XIII. PAINTING WORK										
S-B9-Bq-1	Wall Painting	m ²	387.46	0	1,430	8,570	0	554,068	3,320,532	3,874,600
S-B9-Bq-2	Wood Painting	m ²	27.65	0	4,100	14,800	0	113,365	409,220	522,585
S-B9-Bq-14	Wood Protection Painting	L.S	1.00	0	0	180,000	0	0	180,000	180,000
S-B9-Bq-9	Stairs/Stiel Protection Painting	m ²	0	0	80	7,690	0	0	0	0
S-B9-Bq-3	Ceiling Painting	m ²	92.88	0	1,440	8,660	0	133,747	804,341	938,088
S-B9-Bq-15	Wood polynr	m ²	1.58	0	200	30,800	0	316	32,864	33,480
									Sub Total	5,548,453
XIV. FURNITURE										
S-B12-Bq-10	Sofa	unit	1.00	0	0	833,333	0	0	833,333	833,333
S-B12-Bq-11	Credensa	unit	1.00	0	0	350,000	0	0	350,000	350,000
S-B12-Bq-6	Dining Table	unit	1.00	0	0	658,333	0	0	658,333	658,333
S-B12-Bq-12	Dining Cupboard	unit	1.00	0	0	300,000	0	0	300,000	300,000
S-B12-Bq-13	Bed Room Set	unit	2.00	0	0	1,500,000	0	0	3,000,000	3,000,000
S-B12-Bq-8	Portable Store	unit	1.00	0	0					

Table 4.2.7 (4/5) SUMMARY OF CONSTRUCTION COST FOR BUILDINGS IN PACKAGE-3

CONSTRUCTION COST OF PUMP CONTROL BUILDING

ID No.	Item	Unit	Quantity	Unit Cost			Cost			Total
				PF/C	IF/C	I/C	PF/C	IF/C	I/C	
I. REINFORCEMENT CONCRETE WORK										
S-B4-Bq-1	Concrete K-225	m ³	32.50	0	43,600	184,460	0	1,419,600	5,994,950	7,414,550
S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	174.23	0	1,203	9,128	0	209,599	1,930,371	1,799,970
S-B4-Bq-8	Steel Bar Deformed Dia. 16 mm	Kg	3,617.60	0	1,286	9,320	0	4,652,234	33,716,032	38,368,266
Sub Total										47,582,786
II. ROOFING WORK										
S-B5-Bq-22	Channel C Purlin	Kg	2,916.80	6,310	0	5,699	18,405,008	0	16,622,843	35,027,851
S-B5-Bq-18	Wood Purlin	m ³	0.70	0	5,300	2,435,400	0	3,710	1,704,780	1,708,490
S-B5-Bq-5	Timber Rafters and Timber Batten	m ²	411.80	0	430	25,890	0	172,936	10,661,502	10,834,438
S-B5-Bq-11	Gutter Timber Batten	m ²	13.06	0	600	41,310	0	7,836	539,509	547,345
S-B5-Bq-12	Facing Timber Batten 30 x 300 mm	m ²	27.92	0	240	83,060	0	6,701	2,319,035	2,325,736
S-B5-Bq-32	Roof Ventilation Frame	m ³	0.35	0	480	3,183,590	0	168	1,114,257	1,114,425
S-B5-Bq-13	Plywood Roof Cover	m ²	411.80	0	2,090	28,020	0	860,662	11,538,636	12,399,298
S-B5-Bq-9	Asphalt Sheet Roof Cover	m ²	411.80	0	1,650	15,160	0	432,390	6,242,888	6,675,278
S-B5-Bq-19	Terrace Protection	L.S	1.00	0	0	300,000	0	0	300,000	300,000
S-B5-Bq-20	Fiber Cement Roof Tile	m ²	4.06	0	800	13,200	0	3,248	53,592	56,840
S-B5-Bq-21	Truss Beugel & Bolt	Kg	18.00	0	1,300	3,974	0	23,400	71,532	94,932
S-B5-Bq-3	Ceramic Roof Tile	m ²	411.80	0	12,150	40,350	0	5,003,270	16,616,130	21,619,500
S-B5-Bq-4	Ceramic Ridge Tile	m	27.92	0	8,700	46,890	0	245,417	1,309,169	1,554,586
Sub Total										94,258,738
III. CONCRETE BLOCK WORK AND BRICKWORK										
S-B3-Bq-1	Brickwall/brickwork 1:3:10 1/2 brick thick	m ³	23.03	0	6,960	336,310	0	160,289	7,745,219	7,905,508
Sub Total										7,905,508
IV. PLASTER WORK										
S-B3-Bq-1	Mortar plastering 15 mm of thickness, 1:3	m ²	0	0	900	9,100	0	0	0	0
S-B3-Bq-3	Mortar plastering 15 mm of thickness, 1:3:10	m ²	383.90	0	400	7,200	0	153,560	2,764,080	2,917,640
S-B3-Bq-5	Mortar plastering 15 mm of thickness, 1:2	m ²	252.13	0	1,200	10,000	0	302,156	2,521,300	2,823,456
S-B3-Bq-6	Hole Ridge Mortar Plastering	m	156.00	0	600	21,400	0	93,600	3,338,400	3,432,000
S-B6-Bq-8	Terrazzo	m ²	0	0	9,660	36,550	0	0	0	0
Sub Total										9,173,496
V. DOORS AND WINDOW WORKS										
S-B9-Bq-17	Light Concrete for Ventilation	pieces	52.00	0	30	2,830	0	1,560	147,160	148,720
Sub Total										148,720
VI. MISCELLANEOUS METAL WORK										
S-B13-Bq-11	Steel Door (Sliding)	Kg	109.52	6,310	0	7,173	691,071	0	785,587	1,476,658
S-B13-Bq-12	Steel Door (Swing)	Kg	82.80	6,310	0	7,173	522,468	0	593,924	1,116,392
S-B13-Bq-13	Steel Staircase	Kg	755.24	6,310	0	7,173	4,765,564	0	5,417,337	10,182,901
S-B13-Bq-14	Steel Grill for Pipe Line	Kg	89.71	6,310	0	7,173	566,070	0	643,490	1,209,560
S-B13-Bq-15	Steel Rail for Crab	Kg	668.70	6,310	0	7,173	4,219,497	0	4,796,585	9,016,082
S-B13-Bq-1	Ventilation Hole	Kg	125.45	7,133	0	5,742	894,835	0	720,334	1,615,169
Sub Total										24,616,762
VII. INTERIOR FINISHING										
S-B10-Bq-1	Fiber Cement Ceiling, 1200 x 1200 mm x 6 mm + Ceiling Frame	m ²	0	0	2,220	85,170	0	0	0	0
S-B10-Bq-2	Wood Cornice	m	0	0	30	4,810	0	0	0	0
Sub Total										0
VIII. TILE WORK										
S-B3-Bq-7	Water Proofing Mortar H = 100 (for Wall Base)	m	42.75	0	190	1,390	0	8,123	59,423	67,545
S-B3-Bq-8	Concrete Plastering (for Floor)	m ²	200.82	0	1,200	10,000	0	240,984	2,008,200	2,249,184
Sub Total										2,316,729
IX. SANITAIR WORK										
S-B7-Bq-1	Water Supply Installation (PVC Pipes D= 19.05 mm)	m	12.00	0	0	36,700	0	0	440,400	440,400
S-B7-Bq-2	Waste Water Installation (PVC Pipes D= 110 mm)	m	4.00	0	2,750	55,470	0	11,000	221,880	232,880
S-B7-Bq-5	Closet	pieces	0	0	730	86,410	0	0	0	0
S-B7-Bq-7	Hand Zink (Washtafel)	pieces	1.00	0	40	242,480	0	40	242,480	242,520
S-B7-Bq-11	Floor Drain	pieces	0	0	0	60,000	0	0	0	0
S-B7-Bq-3	Septic tank	unit	0	0	49,390	1,289,080	0	0	0	0
S-B7-Bq-14	Water Cook	pieces	1.00	0	0	67,530	0	0	67,530	67,530
S-B7-Bq-9	Bath Tub (Watertank)	pieces	0	0	200	140,170	0	0	0	0
Sub Total										983,330
XII. ELECTRICAL WORK										
S-B11-Bq-1	Installation and Lighting 40W-1 FL	pieces	7.00	0	0	128,060	0	0	896,420	896,420
S-B11-Bq-2	Installation and Lighting 40W-2 FL	pieces	12.00	0	0	233,060	0	0	2,796,720	2,796,720
S-B11-Bq-3	Installation and Lighting 20W-1 FL	pieces	0	0	0	108,060	0	0	0	0
S-B11-Bq-4	Installation and Lighting 15W-2 FL	pieces	0	0	0	185,560	0	0	0	0
S-B11-Bq-5	Installation and Lighting 15W-1 FL	pieces	0	0	0	103,060	0	0	0	0
S-B11-Bq-24	Installation and Lighting 10W-1 FL	pieces	0	0	0	70,560	0	0	0	0
S-B11-Bq-25	Installation and Lighting 250W-1 H	pieces	2.00	0	0	1,283,060	0	0	2,566,120	2,566,120
S-B11-Bq-12	Lightning Protector	pieces	3.00	0	0	250,000	0	0	2,250,000	2,250,000
S-B11-Bq-7	Fuse	pieces	3.00	0	0	26,310	0	0	78,930	78,930
S-B11-Bq-8	Lighting Switch (Single)	pieces	2.00	0	0	10,440	0	0	20,880	20,880
S-B11-Bq-9	Lighting Switch (Double)	pieces	5.00	0	0	10,440	0	0	52,200	52,200
S-B11-Bq-10	Outlet Socket Switch	pieces	4.00	0	0	11,440	0	0	45,760	45,760
S-B11-Bq-11	Outlet Socket Installation	pieces	4.00	0	0	32,420	0	0	129,680	129,680
S-B11-Bq-17	Extinguisher	pieces	2.00	0	0	1,500,000	0	0	3,000,000	3,000,000
S-B11-Bq-14	Fuse Box	pieces	1.00	0	0	31,310	0	0	31,310	31,310
S-B11-Bq-19	New Installation from PLN for 2200 VA	pieces	1.00	0	0	528,000	0	0	528,000	528,000
Sub Total										12,396,020
XIV. PAINTING WORK										
S-B9-Bq-1	Wall Painting	m ²	573.90	0	1,430	8,570	0	820,677	4,918,323	5,739,000
S-B9-Bq-2	Wood Painting	m ²	201.49	0	4,100	14,800	0	826,109	2,982,052	3,808,161
S-B9-Bq-14	Wood Protection Painting	L.S	0	0	0	180,000	0	0	0	0
S-B9-Bq-9	Stairs/Steel Protection Painting	m ²	40.90	0	80	7,690	0	3,272	314,521	317,793
S-B9-Bq-3	Ceiling Painting	m ²	388.82	0	1,440	8,660	0	559,991	3,367,181	3,927,082
Sub Total										13,792,036
Total Cost										213,174,123

Table 4.2.7 (5/5) SUMMARY OF CONSTRUCTION COST FOR BUILDINGS IN PACKAGE-3

CONSTRUCTION COST OF EXTERNAL WORK

ID No.	Item	Unit	Quantity	Unit Cost			Cost			Total
				PF/C	IF/C	L/C	PF/C	IF/C	L/C	
I. TEMPORARY WORK										
S-B14-Bq-1	Utiset & Bouwplank	m2	519.00	0	0	3,500	0	0	1,816,500	1,816,500
S-B14-Bq-2	Water & Electricity for Work	L.S	1.06	0	0	3,750,000	0	0	3,750,000	3,750,000
S-B14-Bq-3	Administration & Documentasion	L.S	1.00	0	0	2,500,000	0	0	2,500,000	2,500,000
Sub Total										8,066,500
II. EXCAVATION, FILLING, AND GRADING WORK										
S-B1-Bq-1	Earth Cut, 1 m depth	m3	5.15	0	0	16,000	0	0	82,400	82,400
S-B1-Bq-4	Sand Fill	m3	0.63	0	1,620	41,800	0	1,021	26,334	27,355
Sub Total										109,755
III. FOUNDATION WORK										
S-B2-Bq-1	Dry Stone Masonry	m3	1.25	0	2,900	96,000	0	3,625	120,000	123,625
S-B2-Bq-3	Stone Masonry 1:3:10	m3	5.00	0	9,800	166,600	0	49,000	833,000	882,000
S-B2-Bq-2	Brick block 1:3:10	m3	0.30	0	6,960	326,310	0	2,038	97,893	99,981
S-B3-Bq-4	Mortar plastering 15 mm of thickness, 1:3	m2	3.40	0	900	9,100	0	3,060	30,940	34,000
Sub Total										1,139,606
IV. FENCE WORK										
S-B4-Bq-11	Fence's Tie Beam (RC)	m3	5.47	100	191,375	2,410,900	547	1,079,641	13,187,623	14,267,811
S-B4-Bq-10	Fence's Foundation (RC)	m3	1.10	100	203,753	2,127,660	110	224,131	2,340,426	2,564,667
S-B2-Bq-2	Brick block 1:3:10	m3	9.96	0	6,960	326,310	0	69,322	3,250,948	3,319,369
S-B13-Bq-3	Steel Fence	m	138.30	58,367	26,700	145,667	8,072,110	3,692,610	20,145,700	31,910,420
S-B13-Bq-4	Gate	m	44.00	0	0	65,000	0	0	2,860,000	2,860,000
Sub Total										54,922,267
V. SANITAIR WORK										
S-B7-Bq-15	New Installation from PDAM	Unit	1.00	0	0	500,000	0	0	500,000	500,000
S-B7-Bq-1	Water Supply Installation (PVC Pipes D= 19.05 mm)	m	100.00	0	0	36,700	0	0	3,670,000	3,670,000
S-B7-Bq-2	Waste Water Installation (PVC Pipes D= 110 mm)	m	8.00	0	2,750	55,470	0	22,000	443,760	465,760
S-B7-Bq-13	Drainage U-300	m	143.00	0	2,400	36,500	0	343,200	5,219,500	5,562,700
S-B7-Bq-12	Drainage Box	pieces	8.00	0	12,320	134,950	0	98,560	1,079,600	1,178,160
S-B4-Bq-9	Precast RC	m3	0.15	100	197,375	2,410,900	15	29,606	361,635	391,256
Sub Total										11,767,876
VI. ELECTRICAL WORK										
S-B11-Bq-9	Lighting Switch (Double)	pieces	7.00	0	0	10,440	0	0	73,080	73,080
S-B11-Bq-7	Fuse	pieces	3.00	0	0	26,310	0	0	78,930	78,930
S-B11-Bq-21	General Lighting Installation	pieces	12.00	0	0	53,060	0	0	636,720	636,720
S-B11-Bq-2	Installation and Lighting 40W-2 FL	pieces	12.00	0	0	233,060	0	0	2,796,720	2,796,720
S-B11-Bq-14	Fuse Box	pieces	1.00	0	0	31,310	0	0	31,310	31,310
Sub Total										3,616,760
VII. LANDSCAPING										
S-B15-Bq-5	Paving Block	m2	139.96	0	5,700	44,800	0	797,772	6,270,208	7,067,980
S-B15-Bq-1	Paving Kansteen (Paving Border)	m	101.45	0	0	35,900	0	0	3,642,055	3,642,055
S-B15-Bq-2	Gravel	m3	7.93	0	1,360	31,260	0	10,785	247,892	258,677
S-B15-Bq-6	Plantation 2	m2	14.00	0	0	250,000	0	0	3,500,000	3,500,000
Sub Total										14,468,712
Total Cost										94,891,475

Table 4.2.8 (1/4) SUMMARY OF UNIT RATES FOR CONSTRUCTION OF BUILDINGS

ID No.	Base Working Item	Unit	PF/C	IF/C	L/C	Width of Application
S-B1-Bq-1	Earth Cut, 1 m depth	m3	0	0	16,000	
S-B1-Bq-2	Earth Fill (Old)	m3	0	0	7,700	
S-B1-Bq-3	Earth Fill (New)	m3	502	495	17,061	
S-B1-Bq-4	Sand Fill	m3	0	1,620	41,800	
S-B1-Bq-5	Sand Fill Under Foundation	m3	0	1,620	41,800	
S-B2-Bq-1	Dry Stone Masonry	m3	0	2,900	96,000	
S-B2-Bq-2	Brick block 1:3:10	m3	0	6,960	326,310	
S-B2-Bq-3	Stone Masonry 1:3:10	m3	0	9,800	166,600	
S-B2-Bq-4	Masonry of Coble Stone, Cement : 3sand	m3	0	23,240	224,610	
S-B3-Bq-1	Brickwall/brickwork 1:3:10 1/2 brick thick	m3	0	6,960	336,310	
S-B3-Bq-2	Brickwall/brickwork 1:3 1/2 brick thick	m3	0	16,610	368,140	
S-B3-Bq-3	Mortar plastering 15 mm of thickness, 1:3:10	m2	0	400	7,200	
S-B3-Bq-4	Mortar plastering 15 mm of thickness, 1:3	m2	0	900	9,100	
S-B3-Bq-5	Mortar plastering 15 mm of thickness, 1:2	m2	0	1,200	10,000	
S-B3-Bq-6	Hole Ridge Mortar Plastering	m	0	600	21,400	
S-B3-Bq-7	Water Proofing Mortar H = 100 (for Wall Base)	m	0	190	1,390	
S-B3-Bq-8	Concrete Plastering (for Floor)	m2	0	1,200	10,000	
S-B3-Bq-9	Expose Plastering for Column H=800 & Base	m2	0	900	9,100	
S-B4-Bq-1	Concrete K-225	m3	0	43,680	184,460	
S-B4-Bq-2	Light Concrete (Concrete 1:3:5)	m3	0	30,410	422,790	
S-B4-Bq-3	Concrete 1:2:3	m3	0	37,300	467,700	
S-B4-Bq-4	Steel Bar	Kg	0	3,350	10,820	
S-B4-Bq-5	Supported Concrete Coster	m2	10	1,690	94,170	
S-B4-Bq-6	Concrete Coster	m2	10	970	80,220	
S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	0	1,203	9,128	
S-B4-Bq-8	Steel Bar Deformed Dia. 16 mm	Kg	0	1,286	9,320	
S-B4-Bq-9	Precast RC	m3	100	197,375	2,410,900	
S-B4-Bq-10	Fence's Foundation (RC)	m3	100	203,755	2,127,660	
S-B4-Bq-11	Fence's Tie Beam (RC)	m3	100	197,375	2,410,900	
S-B4-Bq-12	Concrete K-250	m3	0	45,870	193,200	
S-B4-Bq-13	Scaffolding	m2	14,740	70	15,630	
S-B4-Bq-14	Concrete for Drainage O-300	m3	100	197,375	2,410,900	
S-B4-Bq-15	Concrete Tower for Watertank	m3	100	205,945	2,136,400	
S-B4-Bq-16	Reinforcement Concrete for Gutter	m3	100	197,375	2,410,900	
S-B5-Bq-1	Metal Sheet Roof	m2	0	26,700	76,530	
S-B5-Bq-2	Metal Sheet Ridge	m	0	12,360	7,640	
S-B5-Bq-3	Ceramic Roof Tile	m2	0	12,150	40,350	
S-B5-Bq-4	Ceramic Ridge Tile	m	0	8,790	46,890	
S-B5-Bq-5	Timber Raften and Timber Batten	m2	0	420	25,890	
S-B5-Bq-6	Steel Truss	Kg	6,310	0	5,699	
S-B5-Bq-7	Steel Purlin	Kg	6,310	0	5,699	
S-B5-Bq-8	Steel Facing	Kg	6,310	0	5,699	
S-B5-Bq-9	Asphalt Sheet Roof Cover	m2	0	1,050	15,160	
S-B5-Bq-10	Colour Bond Metal Sheet (Gutter)	m2	0	18,600	56,130	
S-B5-Bq-11	Gutter Timber Batten	m2	0	600	41,310	
S-B5-Bq-12	Facing Timber Batten 30 x 300 mm	m2	0	240	83,060	
S-B5-Bq-13	Plywood Roof Cover	m2	0	2,090	28,020	
S-B5-Bq-14	Aluminium Sheet	m2	0	19,580	58,410	
S-B5-Bq-15	Glasswool Layer	m2	0	10,470	37,160	
S-B5-Bq-16	Facing	m	0	0	30,000	
S-B5-Bq-17	Wood Truss	m3	78,400	7,200	3,259,900	
S-B5-Bq-18	Wood Purlin	m3	0	5,300	2,435,400	
S-B5-Bq-19	Termite Protection	L.S	0	0	300,000	
S-B5-Bq-20	Fiber Cement Roof Tile	m2	0	800	13,200	
S-B5-Bq-21	Truss Beugel & Bolt	Kg	0	1,300	3,974	
S-B5-Bq-22	Chanef C Purlin	Kg	6,310	0	5,699	
S-B5-Bq-23	Facing Plate I	m2	0	0	26,500	
S-B5-Bq-24	Facing Plate II	m2	0	0	29,000	
S-B5-Bq-25	Sandwich Layer & Steel Roof	m2	0	63,870	190,220	
S-B5-Bq-26	Capping	m	0	8,280	21,320	
S-B5-Bq-27	Polycarbonat Frame	Kg	7,133	0	5,742	
S-B5-Bq-28	Polycarbonat Roof Sheet	m2	0	530	113,960	
S-B5-Bq-29	Aluminium Capping	m	0	8,280	21,320	
S-B5-Bq-30	Asphalt Sheet Water Proofing 5 mm	m2	0	14,070	23,110	
S-B5-Bq-31	Steel Roof	m2	0	26,700	76,530	
S-B5-Bq-32	Roof Ventilation Frame	m3	0	480	3,183,590	
S-B6-Bq-1	Ceramic Floor Tile, 200 x 200 mm	m2	0	9,660	36,550	
S-B6-Bq-2	Ceramic Floor Tile, 200 x 200 mm (Nonslip Texture)	m2	0	9,660	36,550	
S-B6-Bq-3	Ceramic Floor Tile, 300 x300 mm	m2	0	9,660	36,550	
S-B6-Bq-4	Ceramic Floor Tile, 300 x300 mm, (Nonslip Texture)	m2	0	9,660	36,550	
S-B6-Bq-5	Wall Base Mortar Fin w/ Waterproof Paint	m	0	190	1,390	
S-B6-Bq-6	Stair Nosing Ceramic Tile	m	0	1,740	6,580	
S-B6-Bq-7	Granito Tile for Entrance Wall	m2	0	47,160	124,050	
S-B6-Bq-8	Terracota	m2	0	9,660	36,550	
S-B7-Bq-1	Water Supply Installation (PVC Pipes D= 19.05 mm)	m	0	0	36,700	

Table 4.2.8 (2/4) SUMMARY OF UNIT RATES FOR CONSTRUCTION OF BUILDINGS

ID No.	Base Working Item	Unit	PF/C	IF/C	L/C	Width of Application
S-B7-Bq-2	Waste Water Installation (PVC Pipes D= 110 mm)	m	0	2,750	55,470	
S-B7-Bq-3	Septic tank	unit	0	49,390	1,289,080	
S-B7-Bq-4	PVC Gutter (1/2 D= 110 mm)	m	0	1,380	52,270	
S-B7-Bq-5	Closet	pieces	0	730	86,410	
S-B7-Bq-6	Washbak	pieces	0	40	442,480	
S-B7-Bq-7	Hand Zink (Washtafel)	pieces	0	40	242,480	
S-B7-Bq-8	Water Stop Valve	pieces	0	0	67,530	
S-B7-Bq-9	Bath Tub (Watertank)	pieces	0	200	140,170	
S-B7-Bq-10	Kitchen table (Reinforcement Concrete)	m3	100	197,375	2,410,900	
S-B7-Bq-11	Floor Drain	pieces	0	0	60,000	
S-B7-Bq-12	Drainage Box	pieces	0	12,320	134,950	
S-B7-Bq-13	Drainage U-300	m	0	2,400	36,500	
S-B7-Bq-14	Water Cock	pieces	0	0	67,530	
S-B7-Bq-15	New Installation from PDAM	Unit	0	0	500,000	
S-B7-Bq-16	Urinoir	pieces	0	100	402,100	
S-B7-Bq-17	Soap Case	pieces	0	40	71,480	
S-B7-Bq-18	Deepwell	unit	0	0	50,000,000	
S-B7-Bq-19	PVC Gutter (D = 110 mm)	m	0	2,750	55,470	
S-B7-Bq-20	Roof Drain	pieces	0	0	50,000	
S-B7-Bq-21	Drainage O 300	m	0	5,200	41,900	
S-B7-Bq-22	Stainless Steel Watertank 2000 lt	unit	0	0	2,000,000	
S-B8-Bq-1	Wood Frame for Ventilation	m3	0	480	3,183,590	
S-B8-Bq-2	Double Plywood Door	m2	0	5,010	143,830	
S-B8-Bq-3	Aluminium Door	m2	0	31,470	193,320	
S-B8-Bq-4	Aluminium awakening	m	0	7,950	67,320	
S-B8-Bq-5	Aluminium Rolling Door	m2	0	26,780	90,570	
S-B8-Bq-6	Aluminium Door Frame	m	0	6,330	63,540	
S-B8-Bq-7	Aluminium Sliding-Window Frame	m	0	6,330	42,860	
S-B8-Bq-8	Door Keys for Aluminium Door	pieces	0	15,600	48,570	
S-B8-Bq-9	Espagnolette	pieces	0	10,920	37,650	
S-B8-Bq-10	Door Hings (125 mm)	pieces	0	1,320	15,950	
S-B8-Bq-11	Windows Hings (75 mm)	pieces	0	1,320	15,950	
S-B8-Bq-12	Al-Louvre	m2	0	10,200	150,040	
S-B8-Bq-13	Door Stopper	pieces	0	12,480	41,290	
S-B8-Bq-14	Door Keys for Wood Door	pieces	0	11,550	39,110	
S-B8-Bq-15	Door Keys for Toilet Door	pieces	0	15,600	48,570	
S-B8-Bq-16	Double Teakwood Door (w/ Louvre)	m2	0	500	546,200	
S-B8-Bq-17	Light Concrete for Ventilation	pieces	0	30	2,830	
S-B8-Bq-18	Aluminium Window Frame	m	0	4,170	58,500	
S-B8-Bq-19	Door Handle for Aluminium Door	pieces	0	18,720	55,850	
S-B8-Bq-20	Door Hinge (125 mm) / Al.Door	pieces	0	3,440	20,180	
S-B8-Bq-21	Shaft Door (fr Steel Plate)	m2	0	57,260	259,840	
S-B8-Bq-22	Steel Frame for Teakwood Door	m	8,970	0	7,250	
S-B8-Bq-23	Door Handle for Entrance Door	pieces	0	78,000	194,170	
S-B8-Bq-24	Teakwood Panel	m2	0	300	455,700	
S-B8-Bq-25	Aluminium Panel	m2	0	19,580	58,410	
S-B8-Bq-26	Louvre for Ventilation Door	m2	0	500	253,000	
S-B8-Bq-27	Mirror Stainless Steel Sheet t=1.2 mm	m2	0	0	329,690	
S-B8-Bq-28	Aluminium Rolling Shutter (Motorize)	m2	0	156,000	376,170	
S-B8-Bq-29	Door Closer	pieces	0	46,800	121,370	
S-B8-Bq-30	Steel Frame	kg	7,133	0	5,742	
S-B8-Bq-31	Steel Plate 0.5 mm	kg	0	2,430	11,034	
S-B8-Bq-32	Steel Door Frame	kg	7,133	0	5,742	
S-B8-Bq-33	Door Keys for Steel Door	pieces	0	15,600	45,100	
S-B9-Bq-1	Wall Painting	m2	0	1,430	8,570	
S-B9-Bq-2	Wood Painting	m2	0	4,100	14,800	
S-B9-Bq-3	Ceiling Painting	m2	0	1,440	8,660	
S-B9-Bq-4	Steel Painting	m2	0	1,740	9,060	
S-B9-Bq-5	Wood Protection Painting	m2	0	70	3,920	
S-B9-Bq-6	Steel Protection Painting	m	0	80	7,690	
S-B9-Bq-7	Float Glass H = 100 mm, Rayband (For Wall base)	m	0	2,950	8,280	
S-B9-Bq-8	Float Glass H = 5 mm, (Natural Colour)	m2	0	14,900	36,850	
S-B9-Bq-9	Stairs/Steel Protection Painting	m2	0	80	7,690	
S-B9-Bq-10	Float Glass H = 8 mm, (Natural Colour)	m2	0	28,010	67,420	
S-B9-Bq-11	Mirror for Lavatory 5 mm	m2	0	25,030	60,480	
S-B9-Bq-12	Etching Glass 5 mm	m2	0	14,900	36,850	
S-B9-Bq-13	Wood Protection Painting	L.S	0	0	300,000	
S-B9-Bq-14	Wood Protection Painting	L.S	0	0	180,000	
S-B9-Bq-15	Wood polytur	m2	0	200	20,800	
S-B9-Bq-16	Sandblasting Glass / Lobby	m2	0	68,960	162,970	
S-B9-Bq-17	Ceiling Polytur	m2	0	1,930	9,790	
S-B9-Bq-18	Gypsum Cornice Painting	m	0	770	5,450	
S-B9-Bq-19	Float Glass 5 mm (Cloudy Glass)	m2	0	19,820	48,310	
S-B10-Bq-1	Fiber Cement Ceiling, 1200 x 1200 mm x 6 mm + Ceiling	m2	0	2,220	85,170	
S-B10-Bq-2	Wood Cornice	m	0	30	4,810	

Table 4.2.8 (3/4) SUMMARY OF UNIT RATES FOR CONSTRUCTION OF BUILDINGS

ID No.	Base Working Item	Unit	PF/C	IF/C	L/C	Width of Application
S-B10-Bq-3	Stainless Steel Hand Rail	m	144,220	0	37,413	
S-B10-Bq-4	Stainless Steel Railing	m	361,152	0	93,711	
S-B10-Bq-5	Waterproof Gypsum Board 10 mm + Wood Frame	m2	0	420	100,470	
S-B10-Bq-6	Gypsum Cornice for Ceiling	m	0	30	15,810	
S-B10-Bq-7	Lumbersering Skirting for Wall Base	m2	0	480	57,720	
S-B10-Bq-8	Lumbersering Skirting for Ceiling	m2	0	330	56,170	
S-B10-Bq-9	Wood Cornice for Lumbersering Ceiling	m	0	30	4,810	
S-B10-Bq-10	Stainless Steel Railing + 10 mm Float Glass	m	361,152	9,443	116,392	
S-B10-Bq-11	Wood Profile for Lumbersering Skirting	m	0	30	3,540	
S-B10-Bq-12	Aluminium Border for Urinoir	m2	0	26,940	150,350	
S-B10-Bq-13	Ventilation Hole 200 x 200	pieces	0	10	11,700	
S-B10-Bq-14	Ventilation Hole D = 1000 + Steel Frame	pieces	105,100	15,000	212,500	
S-B10-Bq-15	Gypsumboard Panel	m2	0	420	89,990	
S-B10-Bq-16	Access Floor	m2	0	0	610,000	
S-B10-Bq-17	Aluminium Spandrel for Ceiling	m2	0	750	145,000	
S-B10-Bq-18	Aluminium Frame for Partition	m	0	4,170	58,500	
S-B10-Bq-19	Ventilation Hole D = 600 + Steel Frame	pieces	63,000	9,000	127,500	
S-B10-Bq-20	Ventilation Hole for garage	pieces	0	10	15,130	
S-B10-Bq-21	Waterproof Gypsum Board 12 mm + Wood Frame	m2	0	420	103,580	
S-B11-Bq-1	Installation and Lighting 40W-1 FL	pieces	0	0	128,060	
S-B11-Bq-2	Installation and Lighting 40W-2 FL	pieces	0	0	233,060	
S-B11-Bq-3	Installation and Lighting 20W-1 FL	pieces	0	0	108,060	
S-B11-Bq-4	Installation and Lighting 15W-2 FL	pieces	0	0	185,560	
S-B11-Bq-5	Installation and Lighting 15W-1 FL	pieces	0	0	103,060	
S-B11-Bq-6	Air Condition Installation (2 PK)	pieces	0	0	6,312,240	
S-B11-Bq-7	Fuse	pieces	0	0	26,310	
S-B11-Bq-8	Lighting Switch (Single)	pieces	0	0	10,440	
S-B11-Bq-9	Lighting Switch (Double)	pieces	0	0	10,440	
S-B11-Bq-10	Outlet Socket Switch	pieces	0	0	11,440	
S-B11-Bq-11	Outlet Socket Installation	pieces	0	0	32,420	
S-B11-Bq-12	Lightning Protector	pieces	0	0	750,000	
S-B11-Bq-13	Outlet Socket and Installation for AC	pieces	0	0	77,420	
S-B11-Bq-14	Fuse Box	pieces	0	0	31,310	
S-B11-Bq-15	New Installation from PLN for 3500 VA	pieces	0	0	1,300,000	
S-B11-Bq-16	Water Pump	pieces	0	0	600,000	
S-B11-Bq-17	Extinguisher	pieces	0	0	1,500,000	
S-B11-Bq-18	New Installation from PLN for 450 VA	pieces	0	0	108,000	
S-B11-Bq-19	New Installation from PLN for 2200 VA	pieces	0	0	528,000	
S-B11-Bq-20	Wall Lighting Switch	pieces	0	0	51,440	
S-B11-Bq-21	General Lighting Installation	pieces	0	0	53,060	
S-B11-Bq-22	General Lighting 36W-2 + Pole	pieces	112,820	1,540	263,320	
S-B11-Bq-23	New Installation from PLN for 1300 VA	pieces	0	0	528,000	
S-B11-Bq-24	Installation and Lighting 10W-1 FL	pieces	0	0	70,560	
S-B11-Bq-25	Installation and Lighting 250W-1 H	pieces	0	0	1,283,060	
S-B11-Bq-26	Air Condition (1PK)	pieces	0	0	4,057,240	
S-B11-Bq-27	New Installation from PLN (8800 VA)	pieces	0	0	1,300,000	
S-B11-Bq-28	Lightning Spit	pieces	0	0	75,000	
S-B11-Bq-29	Ground Cable D = 12 mm	m	0	0	32,063	
S-B11-Bq-30	Lightning Protection Equipment	pieces	0	0	250,000	
S-B11-Bq-31	Grounding Box	pieces	0	0	100,000	
S-B11-Bq-32	T-Dos	pieces	0	0	12,500	
S-B11-Bq-33	Switch	pieces	0	0	21,440	
S-B11-Bq-34	Wall Switch	pieces	0	0	91,440	
S-B11-Bq-35	PVC Pipe D = 1.25	m	0	9,750	27,790	
S-B11-Bq-36	Main Panel	pieces	0	0	500,000	
S-B11-Bq-37	Distribution Panel	pieces	0	0	300,000	
S-B11-Bq-38	Outlet Socket 200 W	pieces	0	0	22,420	
S-B11-Bq-39	Outlet Socket 400 W	pieces	0	0	22,420	
S-B11-Bq-40	Outlet Socket 1000 W	pieces	0	0	82,420	
S-B11-Bq-41	H 1 x 300 W	pieces	0	0	260,560	
S-B11-Bq-42	H 1 x 400 W	pieces	0	0	355,060	
S-B11-Bq-43	FNB 100 A	pieces	0	0	363,310	
S-B11-Bq-44	FNB 63 A	pieces	0	0	476,310	
S-B11-Bq-45	NCB 32 A	pieces	0	0	61,310	
S-B11-Bq-46	NCB 16 A	pieces	0	0	51,310	
S-B11-Bq-47	NCB 6 A	pieces	0	0	51,310	
S-B11-Bq-48	Grounding Cable D = 6 mm	m	0	0	9,783	
S-B11-Bq-49	Cable NYY 4 x 16 mm	m	0	0	62,813	
S-B11-Bq-50	Cable NYM 3 x 4 mm	m	0	0	8,657	
S-B11-Bq-51	Cable NYM 3 x 2.5 mm	m	0	0	5,580	
S-B11-Bq-52	Cable NYM 2 x 2.5 mm	m	0	0	5,983	
S-B11-Bq-53	Air Blower (inhouse) 0.5 PK	unit	0	0	531,870	
S-B11-Bq-54	Emergency Lamp 20 W	unit	0	0	200,000	
S-B11-Bq-55	PABX (20 Output Line)	unit	0	0	5,000,000	
S-B11-Bq-56	Telephone Outlet Switch	pieces	0	0	21,440	

Table 4.2.8 (4/4) SUMMARY OF UNIT RATES FOR CONSTRUCTION OF BUILDINGS

ID No.	Base Working Item	Unit	PF/C	IF/C	L/C	Width of Application
S-B11-Bq-57	Telephone Cable + Installation	m	0	0	8,307	
S-B11-Bq-58	NCB 2 A	pieces	0	0	51,310	
S-B11-Bq-59	Cable NYY 3 x 16 mm	m	0	0	55,173	
S-B11-Bq-60	NCB 10 A	pieces	0	0	51,310	
S-B11-Bq-61	FL 2 x 40 W + Pole	pieces	112,820	1,540	386,470	
S-B11-Bq-62	New Installation from PLN for 900 VA	pieces	0	0	216,000	
S-B12-Bq-1	Meeting Room Table	unit	0	0	2,125,000	
S-B12-Bq-2	Meeting Room Chair	unit	0	0	200,000	
S-B12-Bq-3	Office Table	unit	0	0	500,000	
S-B12-Bq-4	Filling Cabinet	unit	0	0	800,000	
S-B12-Bq-5	Computer Table	unit	0	0	600,000	
S-B12-Bq-6	Dining Table	unit	0	0	658,333	
S-B12-Bq-7	Single Bed	unit	0	0	500,000	
S-B12-Bq-8	Portable Stove	unit	0	0	500,000	
S-B12-Bq-9	Kitchen Set	unit	0	0	1,000,000	
S-B12-Bq-10	Sofa	unit	0	0	833,333	
S-B12-Bq-11	Credensa	unit	0	0	350,000	
S-B12-Bq-12	Dining Cupboard	unit	0	0	300,000	
S-B12-Bq-13	Bed Room Set	unit	0	0	1,500,000	
S-B12-Bq-14	Front Office Table + 2 Chairs	unit	0	0	3,000,000	
S-B12-Bq-15	Garden Chair	unit	0	0	200,000	
S-B12-Bq-16	Double Bed Set	unit	0	0	1,000,000	
S-B12-Bq-17	Locker Cabinet	unit	0	0	2,800,000	
S-B12-Bq-18	Hot & Cold Dispenser	unit	0	0	1,000,000	
S-B12-Bq-19	Office Chair	unit	0	0	200,000	
S-B13-Bq-1	Ventilation Hole	Kg	7,133	0	5,742	
S-B13-Bq-2	Stairs	Kg	7,133	0	5,742	
S-B13-Bq-3	Steel Fence	m	58,367	26,700	145,667	
S-B13-Bq-4	Gate	m	0	0	65,000	
S-B13-Bq-5	H-Beam	Kg	6,310	0	7,173	
S-B13-Bq-6	Galvanish Pipe D=50.8 mm	m	17,210	0	18,910	
S-B13-Bq-7	Galvanish Pipe D=38.1 mm	m	86,040	0	18,430	
S-B13-Bq-8	Galvanish Pipe D=25.4 mm	m	6,700	0	9,190	
S-B13-Bq-9	Pipe Plandes	pieces	0	0	6,000	
S-B13-Bq-10	Turn Bucle	pieces	0	0	19,500	
S-B13-Bq-11	Steel Door (Sliding)	Kg	6,310	0	7,173	
S-B13-Bq-12	Steel Door (Swing)	Kg	6,310	0	7,173	
S-B13-Bq-13	Steel Staircase	Kg	6,310	0	7,173	
S-B13-Bq-14	Steel Grill for Pipe Line	Kg	6,310	0	7,173	
S-B13-Bq-15	Steel Rail for Crab	Kg	6,310	0	7,173	
S-B13-Bq-16	Stainless Steel - Air Duct Head	unit	0	0	1,250,000	
S-B13-Bq-17	Stainless Steel Cover Entrance Column	m2	359,100	0	126,190	
S-B13-Bq-18	Maintenance Stair	kg	7,133	0	5,742	
S-B13-Bq-19	I-Beam for Runway Rail	kg	7,133	0	5,742	
S-B13-Bq-20	Runway Rail	kg	7,133	0	5,742	
S-B13-Bq-21	Bracket, Holding Plates, Bolt, Nut, etc.	kg	0	1,300	3,974	
S-B14-Bq-1	Uitzet & Bouwplank	m2	0	0	3,500	
S-B14-Bq-2	Water & Electricity for Work	L.S	0	0	3,750,000	
S-B14-Bq-3	Administration & Documentation	L.S	0	0	2,500,000	
S-B15-Bq-1	Paving Kansteen (Paving Border)	m	0	0	35,900	
S-B15-Bq-2	Gravel	m3	0	1,360	31,260	
S-B15-Bq-3	Plantation 1	m2	0	0	7,500	
S-B15-Bq-4	Demolition Wall	m3	32,595	843	38,073	
S-B15-Bq-5	Paving Block	m2	0	5,700	44,800	
S-B15-Bq-6	Plantation 2	m2	0	0	250,000	
S-B15-Bq-7	Plantation 3	m2	0	0	25,000	
S-B15-Bq-8	Plantation 4	m2	0	0	15,000	
S-B15-Bq-9	Plantation 5	m2	0	0	5,000	

Table 4.2.9 (1/62) UNIT RATE CALCULATION TABLE OF BUILDING WORK

I. EARTH WORK

ID No.		Working Name		Calculation Quantity		Remarks					
S-B1-Bq-1		Earth Cut, 1 m depth		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-2-5	Cutting Common Earth, 1m depth	m ³	10	0	0	16000	0	0	160000	
Others			Miscellaneous	L.S.				0	0	0	Round Up
Total for				10 m ³				0	0	160,000	
Unit Cost for				1 m ³				0	0	16,000	

ID No.		Working Name		Calculation Quantity		Remarks					
S-B1-Bq-2		Earth Fill (Old)		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-2-9	Backfilling Earth	m ³	10	0	0	7700	0	0	77000	
Others			Miscellaneous	L.S.				0	0	0	Round Up
Total for				10 m ³				0	0	77,000	
Unit Cost for				1 m ³				0	0	7,700	

ID No.		Working Name		Calculation Quantity		Remarks					
S-B1-Bq-3		Earth Fill (New)		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Equipment											
	A-2-2-51	Tamper, 60-100 kg	daily	0.143	35108.56	1080	16858.77	5020.524	154.44	2410.8042	
Material											
	M-B-9	Soil for Backfilling	m ³	12	0	400	7600	0	4,800	91,200	
Working Base Cost											
	CW-2-9	Backfilling Earth	m ³	10	0	0	7700	0	0	77000	
Others			Miscellaneous	L.S.				0	0	0	Round Up
Total for				10 m ³				5,021	4,954	170,611	
Unit Cost for				1 m ³				502	495	17,061	

ID No.		Working Name		Calculation Quantity		Remarks					
S-B1-Bq-4		Sand Fill		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour											
	L-2-1	Foreman	day	0.1	0	0	48800	0	0	4,880	
	L-2-23	Common Labour	day	3	0	0	35100	0	0	105300	
Material											
	M-B-4	Sand for Filling and Base Course	m ³	12	0	1350	25650	0	16,200	307,800	
Others			Miscellaneous	L.S.				0	0	20	Round Up
Total for				10 m ³				0	16,200	418,000	
Unit Cost for				1 m ³				0	1,620	41,800	

Table 4.2.9 (2/62) UNIT RATE CALCULATION TABLE OF BUILDING WORK

II. FOUNDATION WORK

ID No.		Working Name		Calculation Quantity							Remarks
S-B2-Bq-1		Dry Stone Masonry		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-2-13	Masonry/Riprap Protection, 20cm thickness	m ³	10	0	2900	96000	0	29000	960000	
Others			Miscellaneous	L.S.				0	0	0	Round Up
Total for				10 m ³				0	29,000	960,000	
Unit Cost for				1 m ³				0	2,900	96,000	

ID No.		Working Name		Calculation Quantity							Remarks
S-B2-Bq-2		Brick block 1:3:10		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour											
	L-2-1	Foreman	day	1.8	0	0	48800	0	0	87,840	
	L-2-27	Chief of Mason	day	1.2	0	0	58600	0	0	70,320	
	L-2-11	Mason	day	12	0	0	39000	0	0	468000	
	L-2-23	Common Labour	day	36	0	0	35100	0	0	1263600	
Material											
	M-L-17	Brick; 26 x 12.4 x 5.2 cm	pcs	4500	0	0	200	0	0	900,000	
	M-C-58	Lime	m ³	1.15	0	11500	103500	0	13225	119025	
	M-C-1	Portland Cement	kg	477.5	0	100	400	0	47750	191000	
	M-B-3	Sand for Mortar (Masonry)	m ³	3.82	0	2250	42750	0	8595	163305	
Others			Miscellaneous	L.S.				0	30	10	Round Up
Total for				10 m ³				0	69,600	3,263,100	
Unit Cost for				1 m ³				0	6,960	326,310	

ID No.		Working Name		Calculation Quantity							Remarks
S-B2-Bq-3		Stone Masonry 1:3:10		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-2-17	Masonry of Crushed Stone, 1cement : 3lime : 10sand	m ³	10	0	9800	166600	0	98000	1666000	
Others			Miscellaneous	L.S.				0	0	0	Round Up
Total for				10 m ³				0	98,000	1,666,000	
Unit Cost for				1 m ³				0	9,800	166,600	

ID No.		Working Name		Calculation Quantity							Remarks
S-B2-Bq-4		Masonry of Coble Stone, 1cement : 3sand		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour											
	L-2-1	Foreman	day	1.5	0	0	48800	0	0	73,200	
	L-2-27	Chief of Mason	day	0.6	0	0	58600	0	0	35,160	
	L-2-11	Mason	day	6	0	0	39000	0	0	234,000	
	L-2-23	Common Labour	day	15	0	0	35100	0	0	526,500	
Material											
	M-B-5	Cobble Stone	m ³	12	0	1850	35150	0	22,200	421,800	
	M-C-1	Portland Cement	kg	2025	0	100	400	0	202,500	810,000	
	M-B-3	Sand for Mortar (Masonry)	m ³	3.4	0	2250	42750	0	7,650	145,350	
Others			Miscellaneous	L.S.				0	50	90	
Total for				10 m ³				0	232,400	2,246,100	
Unit Cost for				1 m ³				0	23,240	224,610	

Source : Production Rate is quoted from Daftar Analisa Perhitungan Unit Price, April-May 1999/2000, Market Price, Semarang and Sekitarnya

Table 4.2.9 (3/62) UNIT RATE CALCULATION TABLE OF BUILDING WORK

III. BRICK WALL AND PLASTERING WORK

ID No.		Working Name		Calculation Quantity			Remarks				
S-B3-Bq-1		Brickwal/brickwork 1:3:10 1/2 brick thick		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour	L-2-1	Foreman	day	1.8	0	0	48800	0	0	87,840	
	L-2-27	Chief of Mason	day	1.2	0	0	58600	0	0	70,320	
	L-2-11	Mason	day	12	0	0	39000	0	0	468000	
	L-2-23	Common Labour	day	36	0	0	35100	0	0	1263600	
Material	M-L-17	Brick; 26 x 12.4 x 5.2 cm	pes	5000	0	0	200	0	0	1,000,000	
	M-C-58	Lime	m ³	1.15	0	11500	103500	0	13225	119025	
	M-C-1	Portland Cement	kg	477.5	0	100	400	0	47750	191000	
	M-B-3	Sand for Mortar (Masonry)	m ³	3.82	0	2250	42750	0	8595	163305	
Others		Miscellaneous	L.S.				0	30	10	Round Up	
Total for				10 m ³			0	69,600	3,363,100		
Unit Cost for				1 m ³			0	6,960	336,310		

ID No.		Working Name		Calculation Quantity			Remarks				
S-B3-Bq-2		Brickwal/brickwork 1:3 1/2 brick thick		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour	L-2-1	Foreman	day	1.8	0	0	48800	0	0	87,840	
	L-2-27	Chief of Mason	day	1.2	0	0	58600	0	0	70,320	
	L-2-11	Mason	day	12	0	0	39000	0	0	468000	
	L-2-23	Common Labour	day	36	0	0	35100	0	0	1263600	
Material	M-L-17	Brick; 26 x 12.4 x 5.2 cm	pes	5000	0	0	200	0	0	1,000,000	
	M-C-1	Portland Cement	kg	1575	0	100	400	0	157500	630000	
	M-B-3	Sand for Mortar (Masonry)	m ³	3.78	0	2250	42750	0	8505	161595	
Others		Miscellaneous	L.S.				0	95	45	Round Up	
Total for				10 m ³			0	166,100	3,681,400		
Unit Cost for				1 m ³			0	16,610	368,140		

ID No.		Working Name		Calculation Quantity			Remarks				
S-B3-Bq-3		Mortar plastering 15 mm of thickness, 1:3:10		10 m ²							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-2-48	Plastering 15mm thickness with 1cement : 3lime : 10sand	m ²	10	0	400	7200	0	4000	72000	
Others		Miscellaneous	L.S.				0	0	0	Round Up	
Total for				10 m ²			0	4,000	72,000		
Unit Cost for				1 m ²			0	400	7,200		

ID No.		Working Name		Calculation Quantity			Remarks				
S-B3-Bq-4		Mortar plastering 15 mm of thickness, 1:3		10 m ²							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-2-45	Plastering 15mm thickness with 1cement : 3sand	m ²	10	0	900	9100	0	9000	91000	
Others		Miscellaneous	L.S.				0	0	0	Round Up	
Total for				10 m ²			0	9,000	91,000		
Unit Cost for				1 m ²			0	900	9,100		

ID No.		Working Name		Calculation Quantity			Remarks				
S-B3-Bq-5		Mortar plastering 15 mm of thickness, 1:2		10 m ²							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-2-44	Plastering 15mm thickness with 1cement : 2sand	m ²	10	0	1200	10000	0	12000	100000	
Others		Miscellaneous	L.S.				0	0	0	Round Up	
Total for				10 m ²			0	12,000	100,000		
Unit Cost for				1 m ²			0	1,200	10,000		

Table 4.2.9 (4/62) UNIT RATE CALCULATION TABLE OF BUILDING WORK

ID No.		Working Name		Calculation Quantity			Remarks				
S-B3-Bq-6		Hole Ridge Mortar Plastering		10 m							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-2-53	Seam Work at Brick Masonry with lccment : 3sand per 1m	m2	10	0	600	21400	0	6000	214000	
Others			Miscellaneous	L.S.				0	0	0	Round Up
Total for		10 m						0	6,000	214,000	
Unit Cost for		1 m						0	600	21,400	

ID No.		Working Name		Calculation Quantity			Remarks				
S-B3-Bq-7		Water Proofing Mortar H = 100 (for Wall Base)		10 m							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-2-49	Plastering 20mm thickness with lccment : 2sand	m2	1	0	1900	13900	0	1900	13900	
Others			Miscellaneous	L.S.				0	0	0	Round Up
Total for		10 m						0	1,900	13,900	
Unit Cost for		1 m						0	190	1,390	

ID No.		Working Name		Calculation Quantity			Remarks				
S-B3-Bq-8		Concrete Plastering (for Floor)		10 m2							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-2-44	Plastering 15mm thickness with lccment : 2sand	m2	10	0	1200	10000	0	12000	100000	
Others			Miscellaneous	L.S.				0	0	0	Round Up
Total for		10 m2						0	12,000	100,000	
Unit Cost for		1 m2						0	1,200	10,000	

ID No.		Working Name		Calculation Quantity			Remarks				
S-B3-Bq-9		Expose Plastering for Column H=800 & Base		10 m2							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-2-45	Plastering 15mm thickness with lccment : 3sand	m2	10	0	900	9100	0	9000	91000	
Others			Miscellaneous	L.S.				0	0	0	Round Up
Total for		10 m2						0	9,000	91,000	
Unit Cost for		1 m2						0	900	9,100	

Table 4.2.9 (5/62) UNIT RATE CALCULATION TABLE OF BUILDING WORK

IV. CONCRETE WORK

ID No.		Working Name		Calculation Quantity							Remarks
S-B4-Bq-1		Concrete K-225		10 m3							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour	L-2-1	Foreman	day	0.41	0	0	48800	0	0	20,008	
	L-2-17	Concrete Worker	day	0.78	0	0	39000	0	0	30420	
	L-2-23	Common Labour	day	1.23	0	0	35100	0	0	43173	
Material	M-C-12	Ready Mixed Concrete; 225kg/cm2, 15mm (C3)	m3	10.5	0	40000	160000	0	420,000	1,680,000	
Others		Tools Miscellaneous	% L.S.	4				0 0	16800 0	70944.04 55	Vibrator, Hopper, etc. Round Up
Total for				10 m3				0	436,800	1,844,600	
Unit Cost for				1 m3				0	43,680	184,460	

Concrete loss of 5%; labour and tools are adopted from Japanese Standard.

ID No.		Working Name		Calculation Quantity							Remarks
S-B4-Bq-2		Light Concrete (Concrete 1:3:5)		10 m3							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour	L-2-1	Foreman	day	3	0	0	48800	0	0	146,400	
	L-2-28	Chief of Concrete Worker	day	0.5	0	0	58600	0	0	29300	
	L-2-17	Concrete Worker	day	5	0	0	39000	0	0	195000	
	L-2-23	Common Labour	day	60	0	0	35100	0	0	2106000	
Material	M-C-1	Portland Cement	kg	2684	0	100	400	0	268,400	1,073,600	
	M-B-2	Coarse Aggregate	m3	9.3	0	2600	49400	0	24180	459420	
	M-B-14	Sand for Concrete	m3	5.6	0	2050	38950	0	11480	218120	
Others		Miscellaneous	L.S.					0	40	60	Round Up
Total for				10 m3				0	304,100	4,227,900	
Unit Cost for				1 m3				0	30,410	422,790	

ID No.		Working Name		Calculation Quantity							Remarks	
S-B4-Bq-3		Concrete 1:2:3		10 m3								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks	
					PF/C	IF/C	L/C	PF/C	IF/C	L/C		
Working Base Cost		CW-2-34	Concrete Work with Cement : 2sand : 3gravel	m3	10	0	37300	467700	0	373000	4677000	
Others		Miscellaneous	L.S.					0	0	0	Round Up	
Total for				10 m3				0	373,000	4,677,000		
Unit Cost for				1 m3				0	37,300	467,700		

ID No.		Working Name		Calculation Quantity							Remarks	
S-B4-Bq-4		Steel Bar		10 Kg								
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks	
					PF/C	IF/C	L/C	PF/C	IF/C	L/C		
Working Base Cost		CW-2-36	Reinforcing-Bar Work	kg	10	0	3343	10815	0	33430	108150	
Others		Miscellaneous	L.S.					0	70	50	Round Up	
Total for				10 Kg				0	33,500	108,200		
Unit Cost for				1 Kg				0	3,350	10,820		

ID No.		Working Name		Calculation Quantity							Remarks
S-B4-Bq-5		Supported Concrete Coster		10 m2							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour	L-2-1	Foreman	day	0.175	0	0	48800	0	0	8,540	
	L-2-26	Chief of Carpenter	day	1.05	0	0	58600	0	0	61530	
	L-2-12	Carpenter	day	10.5	1	1	39000	10.5	10.5	409500	
	L-2-23	Common Labour	day	3.5	0	0	35100	0	0	122850	
Material	M-D-23	Dolken Wood	bar	40	0	0	7500	0	0	300,000	
	M-E-48	Nails for Wood	kg	7	0	2400	5600	0	16800	39200	
Others		Miscellaneous	L.S.					90	90	80	Round Up
Total for				10 m2				100	16,900	941,700	
Unit Cost for				1 m2				10	1,690	94,170	

Table 4.2.9 (6/62) UNIT RATE CALCULATION TABLE OF BUILDING WORK

ID No.		Working Name		Calculation Quantity						Remarks	
S-B4-Bq-6		Concrete Coster		10 m ²							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour											
	L-2-1	Foreman	day	0.1	0	0	48800	0	0	4,880	
	L-2-26	Chief of Carpenter	day	0.5	0	0	58600	0	0	29300	
	L-2-12	Carpenter	day	5	1	1	39000	5	5	195000	
	L-2-23	Common Labour	day	6	0	0	35100	0	0	210600	
Material											
	M-D-10	Form Timber	m ³	0.4	0	0	850000	0	0	340,000	
	M-E-48	Nails for Wood	kg	4	0	2400	5600	0	9600	22400	
Others											
		Miscellaneous	L.S.					95	95	20	Round Up
Total for				10 m ²				100	9,700	802,200	
Unit Cost for				1 m ²				10	970	80,220	

ID No.		Working Name		Calculation Quantity						Remarks	
S-B4-Bq-7		Steel Bar Dia. 12 mm		100 Kg							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour											
	L-2-29	Chief of Steel Worker	day	2.25	0	0	58600	0	0	131,850	
	L-2-16	Steel Worker	day	6.75	0	0	39000	0	0	263250	
	L-2-23	Common Labour	day	6.75	0	0	35100	0	0	236925	
Material											
	M-E-74	Steel/Reinforcing Bar Dia. 12 mm	kg	110	0	1050	2450	0	115,500	269,500	
	M-E-64	Steel Wire	kg	2	0	2400	5600	0	4800	11200	
Others											
		Miscellaneous	L.S.					0	0	75	Round Up
Total for				100 Kg				0	120,300	912,800	
Unit Cost for				1 Kg				0	1,203	9,128	

ID No.		Working Name		Calculation Quantity						Remarks	
S-B4-Bq-8		Steel Bar Deformed Dia. 16 mm		100 Kg							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour											
	L-2-29	Chief of Steel Worker	day	2.25	0	0	58600	0	0	131,850	
	L-2-16	Steel Worker	day	6.75	0	0	39000	0	0	263250	
	L-2-23	Common Labour	day	6.75	0	0	35100	0	0	236925	
Material											
	M-E-75	Steel/Reinforcing Bar Deform Dia. 16 mm	kg	110	0	1125	2625	0	123,750	288,750	
	M-E-64	Steel Wire	kg	2	0	2400	5600	0	4800	11200	
Others											
		Miscellaneous	L.S.					0	50	25	Round Up
Total for				100 Kg				0	128,600	932,000	
Unit Cost for				1 Kg				0	1,286	9,320	

ID No.		Working Name		Calculation Quantity						Remarks	
S-B4-Bq-9		Precast RC		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	S-B4-Bq-5	Concrete 1:2:3	m ³	10	0	37300	467700	0	373000	4677000	
	S-B4-Bq-6	Concrete Coster	m ²	100	10	970	80220	1000	97000	8022000	
	S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	1250	0	1203	9128	0	1503750	11410000	
Total for				10 m ³				1,000	1,973,750	24,109,000	
Unit Cost for				1 m ³				100	197,375	2,410,900	

ID No.		Working Name		Calculation Quantity						Remarks	
S-B4-Bq-10		Fence's Foundation (RC)		10 m ³							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	S-B4-Bq-1	Concrete K-225	m ³	10	0	43680	184460	0	436800	1844600	
	S-B4-Bq-6	Concrete Coster	m ²	100	10	970	80220	1000	97000	8022000	
	S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	1250	0	1203	9128	0	1503750	11410000	
Total for				10 m ³				1,000	2,037,550	21,276,600	
Unit Cost for				1 m ³				100	203,755	2,127,660	

Table 4.2.9 (7/62) UNIT RATE CALCULATION TABLE OF BUILDING WORK

ID No.		Working Name		Calculation Quantity						Remarks	
S-B4-Bq-11		Fence's Tie Beam (RC)		10 m3							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	S-B4-Bq-7	Concrete 1:2:3	m3	10	0	37300	467700	0	373000	4677000	
	S-B4-Bq-6	Concrete Coster	m2	100	10	970	80220	1000	97000	8022000	
	S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	1250	0	1203	9128	0	1503750	11410000	
Total for				10 m3				1,000	1,973,750	24,109,000	
Unit Cost for				1 m3				100	197,375	2,410,900	

ID No.		Working Name		Calculation Quantity						Remarks	
S-B4-Bq-12		Concrete K-250		10 m3							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Labour											
	L-2-1	Foreman	day	0.41	0	0	48800	0	0	20,008	
	L-2-17	Concrete Worker	day	0.78	0	0	39000	0	0	30420	
	L-2-23	Common Labour	day	1.23	0	0	35100	0	0	43173	
Material											
	M-C-10	Ready Mixed Concrete; 250kg/cm2, 25mm (B)	m3	10.5	0	42000	168000	0	441,000	1,764,000	
Others											
		Tools	%	4				0	17640	74304.04	Vibrator, Hopper, etc.
		Miscellaneous	L.S.					0	60	95	Round Up
Total for				10 m3				0	458,700	1,932,000	
Unit Cost for				1 m3				0	45,870	193,200	

Concrete loss of 5%; labour and tools are adopted from Japanese Standard.

ID No.		Working Name		Calculation Quantity						Remarks	
S-B4-Bq-13		Scaffolding		10 m2							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	CW-1-38	Prefabricated Scaffold for Re-Con II	m2	10	14739	62	15629	147390	620	156290	
Others											
		Miscellaneous	L.S.					10	80	10	Round Up
Total for				10 m2				147,400	700	156,300	
Unit Cost for				1 m2				14,740	70	15,630	

ID No.		Working Name		Calculation Quantity						Remarks	
S-B4-Bq-14		Concrete for Drainage O-300		10 m3							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	S-B4-Bq-7	Concrete 1:2:3	m3	10	0	37300	467700	0	373000	4677000	
	S-B4-Bq-6	Concrete Coster	m2	100	10	970	80220	1000	97000	8022000	
	S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	1250	0	1203	9128	0	1503750	11410000	
Total for				10 m3				1,000	1,973,750	24,109,000	
Unit Cost for				1 m3				100	197,375	2,410,900	

ID No.		Working Name		Calculation Quantity						Remarks	
S-B4-Bq-15		Concrete Tower for Watertank		10 m3							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	S-B4-Bq-1	Concrete K-250	m3	10	0	45870	193200	0	458700	1932000	
	S-B4-Bq-6	Concrete Coster	m2	100	10	970	80220	1000	97000	8022000	
	S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	1250	0	1203	9128	0	1503750	11410000	
Total for				10 m3				1,000	2,059,450	21,364,000	
Unit Cost for				1 m3				100	205,945	2,136,400	

ID No.		Working Name		Calculation Quantity						Remarks	
S-B4-Bq-16		Reinforcement Concrete for Gutter		10 m3							
Major Item	ID No.	Description	Unit	Quantity	Unit Cost			Cost			Remarks
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Working Base Cost											
	S-B4-Bq-7	Concrete 1:2:3	m3	10	0	37300	467700	0	373000	4677000	
	S-B4-Bq-6	Concrete Coster	m2	100	10	970	80220	1000	97000	8022000	
	S-B4-Bq-7	Steel Bar Dia. 12 mm	Kg	1250	0	1203	9128	0	1503750	11410000	
Total for				10 m3				1,000	1,973,750	24,109,000	
Unit Cost for				1 m3				100	197,375	2,410,900	