



Net Length	:	(a) Road	In.m	-	lane km
		(b) Bridge	36.90 In.m		
		(c) Others	12.00 In.m	(Approaches)	
Target Start Date	:				
Total Project Duration	:	202	Calendar Days		
No. of Pre-determined	:	26	Calendar Days		
Unworkable Days	:	21	Calendar Days		

EQUIPMENT:

DESCRIPTION	REQUIRED
(PLS. SEE FORM POW-2015-01B-00)	

BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	2,621,510.92	
2. Materials	27,009,403.43	
3. Rental of Equipment	8,245,245.16	
4. Provisional Sum/Daywork	-	
5. OCM and Profit	7,393,296.91	
6. Value Added Tax	2,263,472.82	
7. EAO, 3.5%	1,750,000.00	
8. RROW Acquisition		
9. Physical Reseved (Contingency)	717,070.75	
10. TOTAL ESTIMATED COST	50,000,000.00	

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	37,876,159.51	
B. OCM and Profit	7,393,296.91	
C. Value Added Tax	2,263,472.82	
D. Total Construction Cost	-	
E. Eng'g. & Administrative Overhead	1,750,000.00	
F. RROW Acquisition	-	
G. Physical Reserved (Contingency)	717,070.75	
H. TOTAL ESTIMATED COST	50,000,000.00	

Preparation and Submission:

Prepared by:

Engineer II
Maintenance Division

Checked/Submitted by:

Engineer IV
Maintenance Division

Evaluation:

Reviewed by:

District Engineer
Planning & Design Division

Approval:

Recommending Approval

Assistant Regional Director

Approved:

Regional Director



Construction of By-Pass and Diversion Roads - Zamboanga City Diversion Road, Cabaluay - Zambowood - Mampang Section (Road Widening), Zamboanga City, Construction of Mercedes Bridge #1

Zamboanga City

FORM POW-2015-01A-00

ITEMIZED BREAKDOWN

ITEM NO.	DESCRIPTION	QUANTITY		UNIT	DIRECT COST				TOTAL UNIT COST		% DIRECT COST
		AS SUBMITTED	AS EVALUATED		TOTAL		UNIT COST		TOTAL		
					AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	AS EVALUATED
PART A	Facilities for the Engineers										
A.1.1(3)	Construction of Field Office for the Engineer	1.00		L.S.	415,061.35		415,061.35		522,977.30		1.10%
A.1.1(11)	Provision of Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00		L.S.	338,273.33		338,273.33		383,601.96		0.89%
A.1.2(5)	Operation and Maintenance of 4 x 4 Pick-Up Type Service Vehicle for the Engineer	6.73		month	236,724.74		35,157.14		36,915.00		0.62%
	TOTAL OF PART A				990,059.42						2.61%
PART B	Other General Requirements										
B.4(1)	Construction Survey & Staking	0.05		km.	2,113.17		43,214.07		54,449.73		0.01%
B.5	Project Billboard/Signboard	4.00		each	18,337.96		4,584.49		5,776.46		0.05%
B.7	Occupation Safety & Health	6.73		month	246,880.35		36,665.40		41,578.56		0.65%
B.9	Mobilization & Demobilization	1.00		L.S.	321,858.00		321,858.00		337,950.90		0.85%
B.18(2)	Timber Structure	42.00		ln.m.	2,330,786.35		55,494.91		69,923.59		6.15%
	TOTAL OF PART B				2,919,975.82						7.71%
PART C	Earthworks										
103(2)a	Bridge Excavation, Common Soil	912.63		cu.m.	211,267.45		231.49		291.68		0.56%
103(2)b	Bridge Excavation, Soft Rock	1,126.60		cu.m.	391,124.12		347.17		437.44		1.03%
	TOTAL OF PART C				602,391.56						1.59%

ITEM NO.	DESCRIPTION	QUANTITY		UNIT	DIRECT COST				TOTAL UNIT COST		% DIRECT COST
		AS SUBMITTED	AS EVALUATED		TOTAL		UNIT COST		TOTAL		
					AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	
PART F	Bridge Construction										
400(1)a1	Precast Concrete Piles, furnished (400 mm x 400 mm)	3,000.00		m.	10,416,204.60		3,472.07		4,374.81		27.50%
400(6)	Structural Steel Sheet Piles, furnished	2,916.00		kg.	7,256,762.84		2,488.60		3,135.64		19.16%
400(12)	Structural Steel Sheet Piles, driven	2,424.00		kg.	2,369,951.41		977.70		1,231.91		6.26%
400(14)	Precast Concrete Piles, driven (soft strata)	1,216.00		m.	1,859,318.20		1,529.04		1,926.60		4.91%
400(16)a	Test Piles, furnished and driven	80.00		m.	338,203.57		4,227.54		5,326.71		0.89%
404(1)a	Reinforcing Steel, Grade 40	3,441.71		kg.	168,550.94		48.97		61.71		0.45%
404(1)b	Reinforcing Steel, Grade 60	47,668.78		kg.	2,434,588.59		51.07		64.35		6.43%
405(1)b3	Structural Concrete, Class "A"	717.11		cu.m.	5,425,831.57		7,566.25		9,533.47		14.33%
407(8)	Lean Concrete	13.61		cu.m.	79,120.06		5,813.38		7,324.85		0.21%
412(1)	Elastomeric Bearing Pad	16.00		each	263,014.24		16,438.39		20,712.37		0.69%
413(7)a1	Expansion Dam for Bridges (Steel)	2.00		set	869,730.38		434,865.19		547,930.14		2.30%
414(1)	Forms and Falsework	1.00		L.S.	382,674.28		382,674.28		482,169.59		1.01%
	TOTAL OF PART F				31,863,950.68						84.13%
PART G	Drainage and Slope Protection Structures										
508(1)	Hand Laid Rock Embankment	972.61		cu.m.	1,499,782.03		1,542.02		1,942.94		3.96%
	TOTAL OF PART G				1,499,782.03						3.96%
	GRAND TOTAL				37,876,159.51						100.00%



MINIMUM EQUIPMENT REQUIREMENT

No.	Equipment Description	Capacity	Number of Equipment	No.	Equipment Description	Capacity	Number of Equipment
1	Dumptruck (10 Wheeler)	12 cu. Yd	10	26	Diesel Hammer		1
2	Bulldozer		2	27	Drop Hammer		1
3	Backhoe	0.83 cu.m/1.04 cu. Yd	3	28	Jack Hammer		2
4	Road Grader		2	29	Air Compressor	356 - 450 cfm	1
5	Road Roller	10 mt	2	30			
6	Payloader	1.50 cu.m/1.95 cu.yd	4	31			
7	Water Truck/Pump	16000L	2	32			
8	Water Tank		2	33			
9	Transit Mixer	5-6 cu. Yd	4	34			
10	Concrete Screeder		1	35			
11	Concrete Vibrator		2	36			
12	Concrete Cutter		2	37			
13	Bar Cutter		1	38			
14	Bar Bender		1	39			
15	One Bagger Mixer	4-6 cu.ft/min	2	40			
16	Plate Compactor		1	41			
17	Concrete Batching Plant		1	42			
18	Cargo Truck	2 - 5 mt	1	43			
19	Cargo Truck	9 - 10 mt	1	44			
20	Boom Truck		1	45			
21	Service Crane	21 - 25 mt.	1	46			
22	Vibro Hammer	272.22 hp	1	47			
23	Generator Set	7000 kW	1	48			
24	Welding Machine	500A	1	49			
25	Cutting Outfit		2	50			
	SUB-TOTAL		51		SUB-TOTAL		5
TOTAL							56



DPI REGIONAL OFFICE IX

Construction of By-Pass and Diversion Roads - Zamboanga City Diversion Road, Cabaluay - Zambowood - Mampang Section (Road Widening), Zamboanga City, Construction of Mercedes Bridge #1
Zamboanga City

9167067600

FORM POW-2015-01C-00

ITEMIZED BREAKDOWN													
ITEM NO.	DESCRIPTION		DETAILED BREAKDOWN OF COMPONENT COST FOR EACH ITEM										
			%	QTY	UNIT	DIRECT COST				TOTAL MARK-UP		5% VAT	TOTAL COST
						MATERIAL	LABOR	EQUIPMENT	TOTAL	%	VALUE		
PART A	Facilities for the Engineers												
A.1.1(3)	Construction of Field Office for the Engineer	AS EVALUATED											
		AS SUBMITTED	1.10%	1.00	L.S.	337,676.05	45,026.64	32,358.66	415,061.35	20.00%	83,012.27	24,903.68	522,977.30
A.1.1(11)	Provision of Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	AS EVALUATED											
		AS SUBMITTED	0.89%	1.00	L.S.	338,273.33	-	-	338,273.33	8.00%	27,061.87	18,266.76	383,601.96
A.1.2(5)	Operation and Maintenance of 4 x 4 Pick-Up Type Service Vehicle for the Engineer	AS EVALUATED											
		AS SUBMITTED	0.62%	6.73	month	142,013.00	94,711.74	-	236,724.74	0.00%	-	11,836.24	248,560.98
	TOTAL OF PART A	AS EVALUATED											
		AS SUBMITTED	2.61%			817,962.38	139,738.38	32,358.66	990,059.42		110,074.14	55,006.68	1,155,140.24
PART B	Other General Requirements												
B.4(1)	Construction Survey & Staking	AS EVALUATED											
		AS SUBMITTED	0.01%	0.05	km.	539.12	1,319.81	254.23	2,113.17	20.00%	422.63	126.79	2,662.59
B.5	Project Billboard/Signboard	AS EVALUATED											
		AS SUBMITTED	0.05%	4.00	each	14,660.00	3,677.96	-	18,337.96	20.00%	3,667.59	1,100.28	23,105.83
B.7	Occupation Safety & Health	AS EVALUATED											
		AS SUBMITTED	0.65%	6.73	month	26,760.00	160,120.35	60,000.00	246,880.35	8.00%	19,750.43	13,331.54	279,962.32
B.9	Mobilization & Demobilization	AS EVALUATED											
		AS SUBMITTED	0.85%	1.00	L.S.	-	-	321,858.00	321,858.00	0.00%	-	16,092.90	337,950.90
B.18(2)	Timber Structure	AS EVALUATED											
		AS SUBMITTED	6.15%	42.00	ln.m.	754,309.50	236,389.86	1,340,086.99	2,330,786.35	20.00%	466,157.27	139,847.18	2,936,790.80
	TOTAL OF PART B	AS EVALUATED											
		AS SUBMITTED	7.71%			796,268.62	401,507.98	1,722,199.22	2,919,975.82		489,997.92	170,498.69	3,580,472.43
PART C	Earthworks												
103(2)a	Bridge Excavation, Common Soil	AS EVALUATED											
		AS SUBMITTED	0.56%	912.63	cu.m.	-	10,489.43	200,778.02	211,267.45	20.00%	42,253.49	12,676.05	266,196.98
103(2)b	Bridge Excavation, Soft Rock	AS EVALUATED											
		AS SUBMITTED	1.03%	1,126.60	cu.m.	-	18,498.17	372,625.95	391,124.12	20.00%	78,224.82	23,467.45	492,816.39
	TOTAL OF PART C	AS EVALUATED											
		AS SUBMITTED	1.59%			-	28,987.60	573,403.97	602,391.56		120,478.31	36,143.49	759,013.37

ITEM NO.	DESCRIPTION		DETAILED BREAKDOWN OF COMPONENT COST FOR EACH ITEM										
			%	QTY	UNIT	DIRECT COST				TOTAL MARK-UP		5% VAT	TOTAL COST
						MATERIAL	LABOR	EQUIPMENT	TOTAL	%	VALUE		
PART F	Bridge Construction												
400(1)a1	Precast Concrete Piles, furnished (400 mm x 400 mm)	AS EVALUATED											
		AS SUBMITTED	27.50%	3,000.00	m.	8,239,026.75	811,963.50	1,365,214.35	10,416,204.60	20.00%	2,083,240.92	624,972.28	13,124,417.80
400(6)	Structural Steel Sheet Piles, furnished	AS EVALUATED											
		AS SUBMITTED	19.16%	2,916.00	ln.m.	7,138,368.00	11,683.49	106,711.35	7,256,762.84	20.00%	1,451,352.57	435,405.77	9,143,521.18
400(12)	Structural Steel Sheet Piles, driven	AS EVALUATED											
		AS SUBMITTED	6.26%	2,424.00	ln.m.	185,953.98	170,538.40	2,013,459.03	2,369,951.41	20.00%	473,990.28	142,197.08	2,986,138.78
400(14)	Precast Concrete Piles, driven (soft strata)	AS EVALUATED											
		AS SUBMITTED	4.91%	1,216.00	m.	445,522.94	356,460.90	1,057,334.36	1,859,318.20	20.00%	371,863.64	111,559.09	2,342,740.93
400(16)a	Test Piles, furnished and driven	AS EVALUATED											
		AS SUBMITTED	0.89%	80.00	m.	245,190.72	23,451.38	69,561.47	338,203.57	20.00%	67,640.71	20,292.21	426,136.49
404(1)a	Reinforcing Steel, Grade 40	AS EVALUATED											
		AS SUBMITTED	0.45%	3,441.71	kg.	144,551.82	10,696.43	13,302.69	168,550.94	20.00%	33,710.19	10,113.06	212,374.18
404(1)b	Reinforcing Steel, Grade 60	AS EVALUATED											
		AS SUBMITTED	6.43%	47,668.78	kg.	2,102,193.20	148,148.94	184,246.46	2,434,588.59	20.00%	486,917.72	146,075.32	3,067,581.63
405(1)b3	Structural Concrete, Class "A"	AS EVALUATED											
		AS SUBMITTED	14.33%	717.11	cu.m.	4,875,684.67	97,044.52	453,102.37	5,425,831.57	20.00%	1,085,166.31	325,549.89	6,836,547.77
407(8)	Lean Concrete	AS EVALUATED											
		AS SUBMITTED	0.21%	13.61	cu.m.	70,153.77	2,234.69	6,731.60	79,120.06	20.00%	15,824.01	4,747.20	99,691.27
412(1)	Elastomeric Bearing Pad	AS EVALUATED											
		AS SUBMITTED	0.69%	16.00	each	258,674.02	2,740.22	1,600.00	263,014.24	20.00%	52,602.85	15,780.85	331,397.94
413(7)a1	Expansion Dam for Bridges (Steel)	AS EVALUATED											
		AS SUBMITTED	2.30%	2.00	set	138,779.91	140,708.25	590,242.23	869,730.38	20.00%	173,946.08	52,183.82	1,095,860.28
414(1)	Forms and Falsework	AS EVALUATED											
		AS SUBMITTED	1.01%	1.00	L.S.	242,812.50	101,495.44	38,366.34	382,674.28	20.00%	76,534.86	22,960.46	482,169.59
	TOTAL OF PART F	AS EVALUATED											
		AS SUBMITTED	84.13%			24,086,912.28	1,877,166.15	5,899,872.24	31,863,950.68		6,372,790.14	1,911,837.04	40,148,577.85
PART G	Drainage and Slope Protection Structures												
508(1)	Hand Laid Rock Embankment	AS EVALUATED											
		AS SUBMITTED	3.96%	972.61	cu.m.	1,308,260.14	174,110.81	17,411.08	1,499,782.03	20.00%	299,956.41	89,986.92	1,889,725.36
	TOTAL OF PART G	AS EVALUATED											
		AS SUBMITTED	3.96%			1,308,260.14	174,110.81	17,411.08	1,499,782.03		299,956.41	89,986.92	1,889,725.36
	GRAND TOTAL	AS EVALUATED											
		AS SUBMITTED	100.00%			27,009,403.43	2,621,510.92	8,245,245.16	37,876,159.51		7,393,296.91	2,263,472.82	47,532,929.25

**DPW REGIONAL OFFICE IX**

Construction of By-Pass and Diversion Roads - Zamboanga City Diversion Road, Cabaluy - Zambowood - Mampang Section (Road Widening), Zamboanga City, Construction of Mercedes Bridge #1
Zamboanga City

SUMMARY OF APPROVED BUDGET FOR THE CONTRACT

FORM POW-2015-02-00

DESCRIPTION OF WORKS TO BE DONE			ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST
				%	TOTAL DIRECT COST			
PART A	Facilities for the Engineers	AS EVALUATED						
		AS SUBMITTED	990,059.42		110,074.14	55,006.68	165,080.81	1,155,140.24
PART B	Other General Requirements	AS EVALUATED						
		AS SUBMITTED	2,919,975.82		489,997.92	170,498.69	660,496.61	3,580,472.43
PART C	Earthworks	AS EVALUATED						
		AS SUBMITTED	602,391.56		120,478.31	36,143.49	156,621.81	759,013.37
PART F	Bridge Construction	AS EVALUATED						
		AS SUBMITTED	31,863,950.68		6,372,790.14	1,911,837.04	8,284,627.18	40,148,577.85
PART G	Drainage and Slope Protection Structures	AS EVALUATED						
		AS SUBMITTED	1,499,782.03		299,956.41	89,986.92	389,943.33	1,889,725.36
TOTAL		AS EVALUATED						
		AS SUBMITTED	37,876,159.51		7,393,296.91	2,263,472.82	9,656,769.73	47,532,929.25

Preparation and Submission:

Prepared by:

**ELWICK P. ACUÑA**

Engineer II

Maintenance Division

Checked/Submitted by:

**ISIDRA A. ESTANISLAO**

Engineer IV

Maintenance Division

Evaluation:

Reviewed by:

**SATURNINO C. TORREFRANCA**

District Engineer

Planning & Design Division

Approval:

Recommending Approval

**KHADAFFY D. TANGGOL**

OIC-Assistant Regional Director

Approved:

**CAYAMOMBAO D. DIAZ**

Regional Director



REGIONAL OFFICE IX

Construction of By-Pass and Diversion Roads - Zamboanga City Diversion Road, Cabaluay - Zambowood - Mampang Section (Road Widening), Zamboanga City, Construction of Mercedes Bridge #1
Zamboanga City

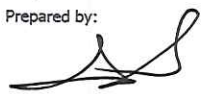
FORM POW-2015-02A-00

ITEM NO.	DESCRIPTION		QTY	UNIT	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
						%	VALUE				
PART A	Facilities for the Engineers										
A.1.1(3)	Construction of Field Office for the Engineer	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	415,061.35	20.00%	83,012.27	24,903.68	107,915.95	522,977.30	522,977.30
A.1.1(11)	Provision of Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	338,273.33	8.00%	27,061.87	18,266.76	45,328.63	383,601.96	383,601.96
A.1.2(5)	Operation and Maintenance of 4 x 4 Pick-Up Type Service Vehicle for the Engineer	AS EVALUATED									
		AS SUBMITTED	6.73	month	236,724.74	0.00%	-	11,836.24	11,836.24	248,560.98	36,915.00
	TOTAL OF PART A	AS EVALUATED									
		AS SUBMITTED			990,059.42		110,074.14	55,006.68	165,080.81	1,155,140.24	
PART B	Other General Requirements										
B.4(1)	Construction Survey & Staking	AS EVALUATED									
		AS SUBMITTED	0.05	km.	2,113.17	20.00%	422.63	126.79	549.42	2,662.59	54,449.73
B.5	Project Billboard/Signboard	AS EVALUATED									
		AS SUBMITTED	4.00	each	18,337.96	20.00%	3,667.59	1,100.28	4,767.87	23,105.83	5,776.46
B.7	Occupation Safety & Health	AS EVALUATED									
		AS SUBMITTED	6.73	month	246,880.35	8.00%	19,750.43	13,331.54	33,081.97	279,962.32	41,578.56
B.9	Mobilization & Demobilization	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	321,858.00	0.00%	-	16,092.90	16,092.90	337,950.90	337,950.90
B.18(2)	Timber Structure	AS EVALUATED									
		AS SUBMITTED	42.00	ln.m.	2,330,786.35	20.00%	466,157.27	139,847.18	606,004.45	2,936,790.80	69,923.59
	TOTAL OF PART B	AS EVALUATED									
		AS SUBMITTED			2,919,975.82		489,997.92	170,498.69	660,496.61	3,580,472.43	
PART C	Earthworks										
103(2)a	Bridge Excavation, Common Soil	AS EVALUATED									
		AS SUBMITTED	912.63	cu.m.	211,267.45	20.00%	42,253.49	12,676.05	54,929.54	266,196.98	291.68
103(2)b	Bridge Excavation, Soft Rock	AS EVALUATED									
		AS SUBMITTED	1,126.60	cu.m.	391,124.12	20.00%	78,224.82	23,467.45	101,692.27	492,816.39	437.44
	TOTAL OF PART C	AS EVALUATED									
		AS SUBMITTED			602,391.56		120,478.31	36,143.49	156,621.81	759,013.37	

ITEM NO.	DESCRIPTION		QTY	UNIT	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
						%	VALUE				
PART F	Bridge Construction										
400(1)a1	Precast Concrete Piles, furnished (400 mm x 400 mm)	AS EVALUATED									
		AS SUBMITTED	3,000.00	m.	10,416,204.60	20.00%	2,083,240.92	624,972.28	2,708,213.20	13,124,417.80	4,374.81
400(6)	Structural Steel Sheet Piles, furnished	AS EVALUATED									
		AS SUBMITTED	2,916.00	ln.m.	7,256,762.84	20.00%	1,451,352.57	435,405.77	1,886,758.34	9,143,521.18	3,135.64
400(12)	Structural Steel Sheet Piles, driven	AS EVALUATED									
		AS SUBMITTED	2,424.00	ln.m.	2,369,951.41	20.00%	473,990.28	142,197.08	616,187.37	2,986,138.78	1,231.91
400(14)	Precast Concrete Piles, driven (soft strata)	AS EVALUATED									
		AS SUBMITTED	1,216.00	m.	1,859,318.20	20.00%	371,863.64	111,559.09	483,422.73	2,342,740.93	1,926.60
400(16)a	Test Piles, furnished and driven	AS EVALUATED									
		AS SUBMITTED	80.00	m.	338,203.57	20.00%	67,640.71	20,292.21	87,932.93	426,136.49	5,326.71
404(1)a	Reinforcing Steel, Grade 40	AS EVALUATED									
		AS SUBMITTED	3,441.71	kg.	168,550.94	20.00%	33,710.19	10,113.06	43,823.24	212,374.18	61.71
404(1)b	Reinforcing Steel, Grade 60	AS EVALUATED									
		AS SUBMITTED	47,668.78	kg.	2,434,588.59	20.00%	486,917.72	146,075.32	632,993.03	3,067,581.63	64.35
405(1)b3	Structural Concrete, Class "A"	AS EVALUATED									
		AS SUBMITTED	717.11	cu.m.	5,425,831.57	20.00%	1,085,166.31	325,549.89	1,410,716.21	6,836,547.77	9,533.47
407(8)	Lean Concrete	AS EVALUATED									
		AS SUBMITTED	13.61	cu.m.	79,120.06	20.00%	15,824.01	4,747.20	20,571.22	99,691.27	7,324.85
412(1)	Elastomeric Bearing Pad	AS EVALUATED									
		AS SUBMITTED	16.00	each	263,014.24	20.00%	52,602.85	15,780.85	68,383.70	331,397.94	20,712.37
413(7)a1	Expansion Dam for Bridges (Steel)	AS EVALUATED									
		AS SUBMITTED	2.00	set	869,730.38	20.00%	173,946.08	52,183.82	226,129.90	1,095,860.28	547,930.14
414(1)	Forms and Falsework	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	382,674.28	20.00%	76,534.86	22,960.46	99,495.31	482,169.59	482,169.59
	TOTAL OF PART E	AS EVALUATED									
		AS SUBMITTED			31,863,950.68		6,372,790.14	1,911,837.04	8,284,627.18	40,148,577.85	
PART G	Drainage and Slope Protection Structures										
508(1)	Hand Laid Rock Embankment	AS EVALUATED									
		AS SUBMITTED	972.61	cu.m.	1,499,782.03	20.00%	299,956.41	89,986.92	389,943.33	1,889,725.36	1,942.94
	TOTAL OF PART G	AS EVALUATED									
		AS SUBMITTED			1,499,782.03		299,956.41	89,986.92	389,943.33	1,889,725.36	
	GRAND TOTAL	AS EVALUATED									
		AS SUBMITTED			37,876,159.51		7,393,296.91	2,263,472.82	9,656,769.73	47,532,929.25	

Preparation and Submission:

Prepared by:



ELWICK P. ACUÑA

Engineer II

Maintenance Division

Checked/Submited by:



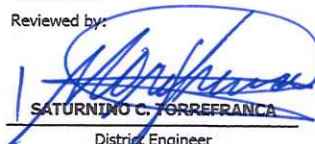
ISIDRA A. ESTANISLAO

Engineer IV

Maintenance Division

Evaluation:

Reviewed by:



SATURNINO C. TORREBRANCA

District Engineer

Planning & Design Division

Item No./Description : A.1.1(3)
Unit of Measurement : Construction of Field Office for the Engineer
Output per hour-As Submitted : 1.00 L.S.
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
A.1				
a. Construction Foreman	1	64	80.95	5,180.88
b. Masons	3	64	59.61	11,252.88
c. Carpenters	3	64	58.61	11,252.88
d. Laborers	6	64	45.16	17,340.00
Sub-Total for A-1 As Submitted				45,026.64
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
B.1				
a. One Bagger Mixer	1	48	172.00	8,256.00
b. Water Truck	1	8	2,450.00	19,600.00
Minor Tools 10% of Labor Cost				4,502.66
Sub-Total for B-1 As Submitted				32,358.66
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				77,385.30
C.2				
Total (A.2+B.2) - As Evaluated				
D.1				
Output per Hour - As Submitted				
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 +D.1) - As Submitted				77,385.30
E.2				
Direct Unit Cost (C.2 +D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
I Earthworks (Excavation, Embankment & Bedd				
a. Gravel Bedding	cu.m.	3.50	1,441.05	5,043.68
b. Selected Fill	cu.m.	10.00	386.35	3,863.50
c. Soil Poisoning	L	2.50	1,900.00	4,750.00
II Concrete Works (Footings, Columns, Beams, & Slab on Grade)				
a. Portland Cement	bag	90.00	304.00	27,360.00
b. Crushed Gravel	cu.m.	21.00	1,441.05	30,262.05
c. Washed Sand	cu.m.	18.00	1,651.05	29,718.90
III Reinforcing Bars (Footings, Columns, Beams, & Slab on Grade)				
a. Deformed Round Bar, Grade 40	kg.	435.00	38.00	16,530.00
b. No. 16 G.I. Tie Wire	kg.	20.00	80.00	1,600.00
IV Formworks (Columns & Beams)				
a. Coco Lumber	bd.ft.	400.00	13.00	5,200.00
b. Ordinary Plywood, 1/4" x 4' x 8'	pc.	18.00	610.00	10,980.00
c. CWN Assorted	kg.	5.00	65.00	325.00
V Masonry Works (Masonry Wall & Plastering)				
a. CHB 6" thk.	pc.	650.00	16.00	10,400.00
b. Portland Cement	bag	45.00	304.00	13,680.00
c. Washed Sand	cu.m.	8.00	1,651.05	13,208.40
d. 10 mm. x 6 m. RSB	kg.	65.00	38.00	2,470.00
e. No. 16 G.I. Tie Wire	kg.	2.50	100.00	250.00
VI Doors and Windows				
a. D-1, Hollow Core Flush Type Swing Door, Complete with Accessories, 0.90 m. x 2.10 m.	set	2.00	1,765.26	3,530.52
b. W-1, Jalousie Window, 1.40 m. x 1.20 m.	set	2.00	924.00	1,848.00
c. W-2, Jalousie Window, 2.80 m. x 1.20 m.	set	2.00	1,848.00	3,696.00

VII Steel Works							
a.	65 mm. x 65 mm. x 6 mm. Angle	kg.	350.00		48.00		16,800.00
b.	50 mm. x 50 mm. x 6 mm. Angle Bar	kg.	250.00		48.00		12,000.00
c.	50 mm. x 50 mm. x 4 mm. Angle Bar	kg.	100.00		48.00		4,800.00
d.	Purlins C- 150 x 50 x 3mm.	kg.	18.00		48.00		864.00
e.	16mm dia. Cross bracing	kg.	35.00		38.00		1,330.00
f.	16mm dia. Turn buckle	pc.	20.00		118.00		2,360.00
g.	12mm thk base plate	kg.	25.00		47.00		1,175.00
h.	10mm thk batten plate	kg.	15.00		47.00		705.00
i.	10mm dia. Sag rod	kg.	10.00		38.00		380.00
j.	20mm dia. x 350 mm anchor bolts	pc.	10.00		36.00		360.00
k.	Welding Rod	kg.	15.00		163.00		2,445.00
l.	Primer, Zinc Chromate	gal.	5.00		531.00		2,655.00
VIII Roofing Works							
a.	Pre-painted GI Roofing Sheet long span	sq.m.	55.00		420.00		23,100.00
b.	Pre-painted ridge roll ga 24, 0.60m width	ln.m.	10.00		189.00		1,890.00
c.	Pre-painted flashing, ga. 24	ln.m.	2.00		189.00		378.00
d.	Teckcrew 11/2"	pc.	1000.00		2.00		2,000.00
e.	Roof Sealant	L	2.00		250.00		500.00
IX Carpentry Works							
a.	Rough Lumber, sun dried tangile	bd.ft.	500.00		37.00		18,500.00
b.	Plywood, ordinary 1/4" x 4' x 8'	pc.	30.00		450.00		13,500.00
c.	Finishing Nails	kg.	5.00		110.00		550.00
d.	Common Wire Nails	kg.	10.00		65.00		650.00
e.	Wood Preservative Brown	L	5.00		400.00		2,000.00
X Electrical Works							
a.	2 x 40w Fluorescent lighting fixtures	set	5.00		1,030.00		5,150.00
b.	Porcelain Ceiling Outlet w/ female socket	pc	2.00		50.00		100.00
c.	Duplex Convenience outlet	pc	3.00		170.00		510.00
d.	two gang switch	pc	3.00		170.00		510.00
e.	3.5mm2 thw	roll	3.00		3,600.00		10,800.00
f.	8.00mm2 thw	m	25.00		70.00		1,750.00
g.	15mm dia. PVC pipe	pc	20.00		73.00		1,460.00
h.	15mm dia. PVC Coupling	pc	25.00		5.00		125.00
i.	15mm dia. PVC Elbow	pc	25.00		26.00		650.00
j.	15mm dia. PVC Clamp	pc	55.00		8.00		440.00
k.	20mm dia. RSC Pipe	pc	4.00		240.00		960.00
l.	20mm dia. RSC Coupling	pc	3.00		9.00		27.00
m.	20mm dia. RSC elbow	pc	3.00		30.00		90.00
n.	20mm dia. RSC Clamp	pc	10.00		18.00		180.00
o.	20mm dia. Service entrance cap	pc	2.00		100.00		200.00
p.	wire holder	pc	2.00		50.00		100.00
q.	utility box	pc	7.00		32.00		224.00
r.	octagonal box	pc	8.00		34.00		272.00
s.	electrical tape (big)	pc	7.00		31.00		217.00
t.	panel board (side main w/ braches)	set	2.00		1,627.00		3,254.00
XI Plumbing Works							
a.	Water Closet (include. Fitting & Accessories)	set	1.00		7,375.00		7,375.00
b.	Lavatory (include fitting & Accessories)	set	1.00		6,615.00		6,615.00
c.	1/2" GI Pipe S-40	pc	2.00		166.00		332.00
d.	1/2" Water Faucet	pc	2.00		321.00		642.00
e.	1/2" Assorted Connector	pc	8.00		20.00		160.00
f.	4" PVC series 1000	pc	1.00		640.00		640.00
g.	2" PVC series 1000	pc	1.00		305.00		305.00
h.	4" PVC assorted Connector	pc	6.00		77.00		462.00
i.	2" PVC assorted Connector	pc	8.00		56.00		448.00
Sub-Total for F-1 As Submitted							337,676.05
Equipment							
F.2							
Sub-Total for F-2 As Evaluated							
G.1	Direct Unit Cost (E.1+F.1) - As Submitted						415,061.35
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated						
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted						49,807.36
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated						
I.1	Contractor's Profit - As Submitted						33,204.91
I.2	Contractor's Profit - As Evaluated						
J.1	Value Added Tax - As Submitted						24,903.68
J.2	Value Added Tax - As Evaluated						
K.1	Total Unit Cost - As Submitted						522,977.30
K.2	Total Unit Cost - As Evaluated						

Prepared by:


ELWICK P. ACUÑA

Engineer II

Checked/Reviewed


ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : A.1.1(11)
Unit of Measurement : Provision of Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field
Output per hour-As Submitted : 1.00 L.S.
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
Sub-Total for A-1 As Submitted				-
A.2				
Sub-Total for A-2 As Evaluated				
B.1				
Equipment	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Sub-Total for B-1 As Submitted				-
B.2				
Equipment				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				-
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				-
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				-
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1				
Materials	Unit	Quantity	Unit Cost	Amount (Php.)
Office Equipment/Facilities & Supplies				
a. Electric Desk Fan	unit	2.00	1,370.00	2,740.00
b. Folding Beds, Good Quality	each	2.00	2,700.00	5,400.00
c. pillows w/ pillow cases, fitted sheets and blanket	each	2.00	5,000.00	10,000.00
d. Double burner gas stove (Gasul)	unit	1.00	3,700.00	3,700.00
e. 10 cups Rice Cooker	unit	1.00	2,500.00	2,500.00
f. Various Office Supply	L.S.	1.00	45,000.00	45,000.00
<i>(Folders, Bond Paper, Yellow Pads, Ball Pens, Pencil, Envelopes, etc.)</i>				
g. Kitchenware	L.S.	1.00	30,000.00	30,000.00
<i>(Plates, Spoons & Forks, Glasses, etc.)</i>				
h. Dining Table	set	1.00	8,000.00	8,000.00
i. Digital Camera	set	2.00	12,000.00	24,000.00
j. Cellphone	set	4.00	15,000.00	60,000.00
k. Desktop Computer	set	1.00	95,000.00	95,000.00
l. Printer	set	1.00	14,900.00	14,900.00
Lighting/Water Fixtures				
a. Electrical Bill	mo.	6.73	3,000.00	20,200.00
b. Water Bill	mo.	6.73	1,500.00	10,100.00
c. LPG (11 kg)	mo.	6.73	1,000.00	6,733.33
Sub-Total for F-1 As Submitted				336,273.33
Equipment				
Sub-Total for F-1 As Submitted				336,273.33
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				336,273.33
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				-
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				27,061.87
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				18,266.76
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				383,601.96
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed

ELWICK P. ACUÑA


Engineer II


ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : A.1.2(5)
Unit of Measurement : Operation and Maintenance of 4 x 4 Pick-Up Type Service Vehicle for the Engineer
Output per hour-As Submitted : 6.73 month
Output per hour-As Evaluated :

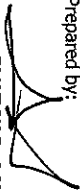
Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Driver	1	1,616.00	58.61	94,711.74
Sub-Total for A-1 As Submitted				94,711.74
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1				
Equipment				
Sub-Total for B-1 As Submitted				-
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				94,711.74
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				-
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				-
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Diesel	L	2,020.00	31.00	62,620.00
b. Spare Parts	L.S.	1.00	40,000.00	40,000.00
c. Engine Oil & Lubricants	L.S.	1.00	9,393.00	9,393.00
d. Miscellaneous	L.S.	1.00	30,000.00	30,000.00
Sub-Total for F-1 As Submitted				142,013.00
Equipment				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				142,013.00
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				-
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				-
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				7,100.65
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				149,113.65
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : B-4(1)
Unit of Measurement : Construction Survey & Staking
Output per hour-As Submitted : 0.05 km.
Output per hour-As Evaluated : 0.04

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
For Field Works				
a. Geodetic Engineer	1	1	104.16	104.16
b. Skilled Laborer	3	1	58.61	175.83
c. Unskilled Laborer	3	1	45.16	135.47
For Office Works				
a. Geodetic Engineer	1	3	104.16	312.49
b. Skilled Laborer	2	3	58.61	351.65
Sub-Total for A-1 As Submitted				1,079.60
Labor				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Total Station w/ Complete Accessories	1	1	100.00	100.00
Minor Tools 10% of Labor				107.96
Sub-Total for B-1 As Submitted				207.96
Equipment				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				1,287.56
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				0.04
D.2 Output per Hour - As Evaluated				
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				32,189.07
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Standard Stake Plan (800 mm x 910 mm)	pc.	20.00	400.00	8,000.00
b. Blue Printing	pc.	100.00	25.00	2,500.00
Miscellaneous 5% of Material Cost				525.00
Sub-Total for F-1 As Submitted				11,025.00
Equipment				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+ F.1) - As Submitted				43,214.07
G.2 Direct Unit Cost (E.2+ F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				5,185.69
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				3,457.13
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				2,592.84
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				54,449.73
K.2 Total Unit Cost - As Evaluated				-

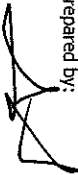
Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : B.5
 Project Billboard/Signboard
 Unit of Measurement : 4.00 each
 Output per hour-As Submitted :
 Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
A.1				
a. Foreman	1	16	80.95	1,295.22
b. Skilled Laborer	1	16	58.61	937.74
c. Unskilled Laborer	2	16	45.16	1,445.00
Sub-Total for A-1 As Submitted				3,677.96
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1				
Equipment				
Sub-Total for B-1 As Submitted				-
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				3,677.96
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				-
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				-
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Ordinary Plywood 1/2" thk. x 4' x 8'	pc.	4.00	750.00	3,000.00
b. Tarpsulin (4' x 8')	pc.	4.00	1,000.00	4,000.00
c. Assorted Lumber	bd.ft.	200.00	37.00	7,400.00
d. Assorted CW Nails	kg.	4.00	65.00	260.00
Sub-Total for F-1 As Submitted				14,660.00
Equipment				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				14,660.00
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				1,759.20
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				1,172.80
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				879.60
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				18,471.60
K.2				
Total Unit Cost - As Evaluated				-

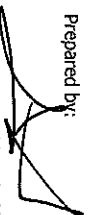
Prepared by:

ELWICK P. ACUÑA
 Engineer II


Checked/Reviewed

ISIDRA A. ESTANISLAO
 Engineer IV

Item No./Description : B.7
Occupation Safety & Health
Unit of Measurement : 6.73 month
Output per hour-As Submitted :
Output per hour-As Evaluated :


Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Safety Practitioner	1	808.00	80.95	65,408.61
b. First Aider	1	1616.00	58.61	94,711.74
Sub-Total for A-1 As Submitted				160,120.35
A.2				
Labor				
Sub-Total for A-2 As Evaluated				
B.1				
Equipment	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
a. Warning Signs and Barricades				60,000.00
Sub-Total for B-1 As Submitted				60,000.00
B.2				
Equipment				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				220,120.35
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				-
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				220,120.35
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1				
Materials	Unit	Quantity	Unit Cost	Amount (Php.)
a. Rubber Boots (Long w/ Steel Toe, Black)	pair	24.00	400.00	9,600.00
b. Working Gloves (Maiong Materials)	pair	24.00	15.00	360.00
c. Rain Coats (Reinforced, Hip Length)	pc	24.00	100.00	2,400.00
d. Safety Hats	pc	24.00	600.00	14,400.00
Sub-Total for F-1 As Submitted				26,760.00
F.2				
Equipment				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				246,880.35
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1				
Contractor's Profit - As Submitted				19,750.43
I.2				
Contractor's Profit - As Evaluated				
J.1				
Value Added Tax - As Submitted				13,331.54
J.2				
Value Added Tax - As Evaluated				
K.1				
Total Unit Cost - As Submitted				279,962.32
K.2				
Total Unit Cost - As Evaluated				


Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : B.9
Mobilization & Demobilization
Unit of Measurement : 1.00 L.S.
Output per hour-As Submitted :
Output per hour-As Evaluated :


Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1 Labor				
Sub-Total for A-1 As Submitted				-
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Low Bed Trailer	1	48	4,255.38	204,258.00
b. Water Truck	1	48	2,450.00	117,600.00
c.				
B.1 d.				
e.				
Sub-Total for B-1 As Submitted				321,858.00
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				321,858.00
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				
D.2 Output per Hour - As Evaluated				
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				321,858.00
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1 Materials				
Sub-Total for F-1 As Submitted				-
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				321,858.00
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				38,622.96
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				25,748.64
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				19,311.48
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				405,541.08
K.2 Total Unit Cost - As Evaluated				-

Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : B.18(2)
Timber Structure
Unit of Measurement : 42.00 In.m.
Output per hour-As Submitted : 0.125
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
A.1				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	6	1	58.61	351.65
b. Unskilled Laborer	6	1	45.16	270.94
Sub-Total for A-1 As Submitted				703.54
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Equipment				
a. Truck Mounted Crane	1	1.00	2,606.00	2,606.00
b. Drop Hammer	1	0.50	200.00	100.00
c. Cargo Truck	2	0.50	1,212.00	1,212.00
Minor Tools 10% of Labor Cost				70.35
Sub-Total for B-1 As Submitted				3,988.35
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				4,691.90
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				0.13
D.2 Output per Hour - As Evaluated				
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				37,535.16
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Materials				
a. Coco Trunks	pc.	6.86	1,000.00	6,857.14
b. 5" x 10" x 12' Coco Lumber	bd.ft.	357.143	13.00	4,642.86
c. 4" x 10" x 12' Coco Lumber	bd.ft.	91.43	13.00	396.19
d. 25 mm dia. X 40 mm dia. Mach. Bolts with Standard Nuts & Washers	pc.	710.00	25.00	5,916.67
e. 25 mm dia. X 500 mm. Steel Bars	pc.	1.96	75.00	146.89
Sub-Total for F-1 As Submitted				17,959.75
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				55,494.91
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				6,659.39
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				4,439.59
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				3,329.69
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				69,923.59
K.2 Total Unit Cost - As Evaluated				-

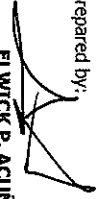
Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 103(2)a
Bridge Excavation, Common Soil
Unit of Measurement : 912.63 cu.m.
Output per hour-As Submitted : 20.00
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
A.1				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	1	1	58.61	58.61
c. Unskilled Laborer	2	1	45.16	90.31
Sub-Total for A-1 As Submitted				229.87
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Dump Truck (12 cu.yd.)	2	1	1,420.00	2,840.00
b. Backhoe (0.80 cu.m.)	1	1	1,537.00	1,537.00
Minor Tools 10% of Labor				22.99
Sub-Total for B-1 As Submitted				4,399.99
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				4,629.86
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				20.00
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				231.49
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
Sub-Total for F-1 As Submitted				-
Equipment				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				231.49
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				27.78
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				18.52
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				13.89
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				291.68
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

ELWICK P. ACUÑA
Engineer II


Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 103(2)b
 Bridge Excavation, Soft Rock
 Unit of Measurement : 1,126.60 cu.m.
 Output per hour-As Submitted : 14.00
 Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	1	1	58.61	58.61
c. Unskilled Laborer	2	1	45.16	90.31
Sub-Total for A-1 As Submitted				229.87
Labor				
Sub-Total for A-2 As Evaluated				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Dump Truck (12 cu.yd.)	2	1	1,420.00	2,840.00
b. Backhoe (0.80 cu.m.)	1	0.5	1,537.00	768.50
b. Backhoe w/ Breaker (0.80 cu.m.)	1	0.5	1,998.10	999.05
Minor Tools 10% of Labor				22.99
Sub-Total for B-1 As Submitted				4,630.54
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				4,860.41
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				14.00
D.2 Output per Hour - As Evaluated				
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				347.17
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1 Materials				
Sub-Total for F-1 As Submitted				-
Equipment				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				347.17
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				41.66
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				27.77
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				20.83
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				437.44
K.2 Total Unit Cost - As Evaluated				-

Prepared by: 
ELWICK P. ACUÑA
 Engineer II


Checked/Reviewed 
ISIDRA A. ESTANISLAO
 Engineer IV

Item No./Description : 400(1)a1
Unit of Measurement : Precast Concrete Piles, furnished (400 mm x 400 mm)
Output per hour-As Submitted : 3,000.00 m.
Output per hour-As Evaluated : 2.50

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	4	1	58.61	234.44
b. Unskilled Laborer	8	1	45.16	361.25
Sub-Total for A-1 As Submitted				676.64
Labor				
Sub-Total for A-2 As Evaluated				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Payloader (1.50 cu.m.), LX80-2C	1	0.5	1,733.00	866.50
b. Concrete Vibrator	1	0.1	91.25	9.13
c. Plate Compactor (5 hp), for Casting Bed	1	0.28	123.00	34.44
d. Bar Bender	1	0.28	351.50	98.42
e. Bar Cutter	1	0.28	219.75	61.53
Minor Tools 10% of Labor Cost				67.66
Sub-Total for B-1 As Submitted				1,137.68
Equipment				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				1,814.31
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				2.50
D.2 Output per Hour - As Evaluated				
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				725.73
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Ready Mix Concrete, Class "AA" - 27.60 Mpa	cu.m.	0.17	4,250.00	714.00
b. Reinforcing Steel Bar	kg.	40.45	38.00	1,537.10
c. #16 G.I. Tie Wire (2% of RSB)	kg.	0.809	100.00	80.90
d. Good Lumber - 4 uses	bd.ft.	15.333	37.00	141.83
e. Marine Plywood, 1/2" x 4' x 8' - 4 uses	pc.	0.268	1,100.00	73.70
f. Assorted CWN (1 kg./100 bd.ft. of Lumber)	kg.	0.163	73.00	11.90
Casting Bed				
a. Ready Mix Concrete, Class "B"	cu.m.	0.03	4,200.00	126.00
b. Good Lumber - 4 uses	bd.ft.	1.00	37.00	9.25
c. Base Course	cu.m.	0.06	861.05	51.66
Sub-Total for F-1 As Submitted				2,746.34
Materials				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				3,472.07
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				416.65
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				277.77
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				208.32
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				4,374.81
K.2 Total Unit Cost - As Evaluated				-

Prepared by:

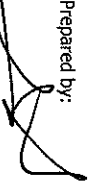
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ELWICK P. ACUÑA
Engineer II


ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 400(6)
 Unit of Measurement : Structural Steel Sheet Piles, furnished
 Output per hour-As Submitted : 2,916.00 ln.m.
 Output per hour-As Evaluated : 72.00


Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	2	1	58.61	117.22
b. Unskilled Laborer	2	1	45.16	90.31
Sub-Total for A-1 As Submitted				288.48
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Marine and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1				
Equipment				
a. Truck Mounted Crane (41 - 45 mt)	1	1	2,606.00	2,606.00
Minor Tools 10% of Labor Cost				26.85
Sub-Total for B-1 As Submitted				2,634.85
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				2,923.33
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				72.00
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				40.60
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				
F.1				
Materials	Unit	Quantity	Unit Cost	Amount (Php.)
a. Steel Sheet Pile KSP II (delivered at site)	kg.	48.00	50.00	2,400.00
Miscellaneous 2% of Materials Cost				48.00
Sub-Total for F-1 As Submitted				2,448.00
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				2,488.60
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				298.63
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				199.09
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				149.32
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				3,135.64
K.2				
Total Unit Cost - As Evaluated				-


Prepared by: 
ELWICK P. ACUÑA
 Engineer II

Checked/Reviewed 
ISIDRA A. ESTANISLAO
 Engineer IV

Item No./Description : 400(12)
 Unit of Measurement : Structural Steel Sheet Piles, driven
 Output per hour-As Submitted : 2,424.00 In.m.
 Output per hour-As Evaluated : 10.00

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	6	1	58.61	351.65
b. Unskilled Laborer	6	1	45.16	270.94
Sub-Total for A-1 As Submitted				703.54
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Truck Mounted Crane (41 - 45 mt)	1	1	2,606.00	2,606.00
b. Vibro Hammer (272.22 hp)	1	1	3,069.00	3,069.00
c. Generator Set (700 kW)	1	1	2,147.27	2,147.27
B.1				
d. Welding Machine (500 A), Electric Driven	1	1	391.00	391.00
e. Cutting Outfit	1	0.5	45.45	22.73
Minor Tools				70.35
Sub-Total for B-1 As Submitted				8,306.35
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				9,009.89
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				10.00
D.2				
Output per Hour - As Evaluated				900.99
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Welding Rod (1 kg./2000 kg. Steel)	kg.	0.024	163.00	3.91
b. Oxy/acetylene (1 set/5000 kg. Steel)	set	0.0096	2,500.00	24.00
c. Coco Log - 2 uses	m.	0.18	350.00	31.50
d. Good Lumber - 4 uses	bd.ft.	1.55	37.00	14.34
e. Assorted CWN (1 kg./100 bd.ft. Of Lumber)	kg.	0.02	73.00	1.46
Miscellaneous				1.50
Sub-Total for F-1 As Submitted				76.71
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				977.70
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				117.32
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				78.22
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				58.66
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				1,231.91
K.2				
Total Unit Cost - As Evaluated				-


Prepared by:

 ELWICK P. ACUÑA
 Engineer II

Checked/Reviewed

 ISIDRA A. ESTANISLAO
 Engineer IV


Item No./Description : 400(14)
Precast Concrete Piles, driven (soft strata)
Unit of Measurement : 1,216.00 m.
Output per hour-As Submitted : 2.40
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	6	1	58.61	351.65
b. Unskilled Laborer	6	1	45.16	270.94
Sub-Total for A-1 As Submitted				703.54
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Equipment				
a. Truck Mounted Crane (41 - 45 mt)	1	0.53	2,606.00	1,381.18
b. Diesel Hammer (K25 or equivalent)	1	0.27	1,286.00	347.22
c. Drop Hammer	1	0.13	200.00	26.00
d. Cutting Outfit	1	0.20	45.45	9.09
e. Jack Hammer	2	0.20	150.00	60.00
f. Air Compressor (356 - 450 cfm)	1	0.20	965.00	193.00
Minor Tools 10% of Labor Cost				70.35
Sub-Total for B-1 As Submitted				2,086.84
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				2,790.39
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				2.40
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				1,162.66
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Coco Logs - 2 uses	m.	1.00	350.00	175.00
b. Good Lumber (Faisework) - 4 uses	bd.ft.	16.00	37.00	148.00
c. Nail/Spike (1 kg./100 bd.ft. OF Lumber)	kg.	0.16	70.00	11.20
d. Oxy/Acetylene	set	0.01	2,500.00	25.00
Miscellaneous 2% of Material Cost				7.18
Sub-Total for F-1 As Submitted				366.38
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				1,529.04
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				183.49
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				122.32
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				91.74
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				1,926.60
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

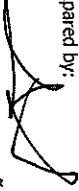

ELWICK P. ACUÑA
Engineer II

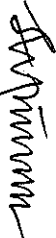
Checked/Reviewed


ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 400(16)a
Test Piles, furnished and driven
Unit of Measurement : 80.00 m.
Output per hour-As Submitted : 2.40
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	6	1	58.61	351.65
b. Unskilled Laborer	6	1	45.16	270.94
Sub-Total for A-1 As Submitted				703.54
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
B.1				
Equipment				
a. Truck Mounted Crane (41 - 45 mt)	1	0.53	2,606.00	1,381.18
b. Diesel Hammer (K25 or equivalent)	1	0.27	1,286.00	347.22
c. Drop Hammer	1	0.13	200.00	26.00
d. Cutting Outfit	1	0.20	45.45	9.09
e. Jack Hammer	2	0.20	150.00	60.00
f. Air Compressor (356 - 450 cfm)	1	0.20	965.00	193.00
Minor Tools 10% of Labor Cost				70.35
Sub-Total for B-1 As Submitted				2,086.84
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				2,790.39
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				2.40
D.2 Output per Hour - As Evaluated				
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				1,162.66
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1				
Materials				
a. Coco Logs - 2 uses	m.	2.00	350.00	350.00
b. Good Lumber (Falsework) - 4 uses	bd.ft.	16.00	37.00	148.00
c. Nail/Spike (1 kg/100 bd.ft. Of Lumber)	kg.	0.16	70.00	11.20
d. Oxy/Acetylene	set	0.01	2,500.00	25.00
e. Fabricated RC pile (delivered at site)	m.	1.00	2,520.00	2,520.00
Miscellaneous 2% of Material Cost				10.68
Sub-Total for F-1 As Submitted				3,064.88
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				4,227.54
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				507.31
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				338.20
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				253.65
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				5,326.71
K.2 Total Unit Cost - As Evaluated				-


Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 404(1)a
 Reinforcing Steel, Grade 40
 Unit of Measurement : 3,441.71 Kg.
 Output per hour-As Submitted : 180.00
 Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
A.1				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	2	1	58.61	117.22
b. Unskilled Laborer	8	1	45.16	361.25
Sub-Total for A-1 As Submitted				559.42
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Equipment				
B.1				
a. Service Crane (21 - 25 mt.)	1	0.15	1,522.00	228.30
b. Cargo Truck (9 - 10 mt.)	1	0.15	1,212.00	181.80
c. Bar Cutter	1	0.50	219.75	109.88
d. Bar Bender	1	0.50	351.50	175.75
Sub-Total for B-1 As Submitted				695.73
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				1,255.14
C.2				
Total (A.2+B.2) - As Evaluated				
D.1				
Output per Hour - As Submitted				180.00
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				6.97
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
a. Tie Wire (2% of RSB)	kg.	0.021	100.00	2.10
b. Reinforcing Steel Bar	Kg.	1.05	38.00	39.90
(with 5% wastage)				
Sub-Total for F-1 As Submitted				42.00
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				48.97
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				5.88
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1				
Contractor's Profit - As Submitted				3.92
I.2				
Contractor's Profit - As Evaluated				
J.1				
Value Added Tax - As Submitted				2.94
J.2				
Value Added Tax - As Evaluated				
K.1				
Total Unit Cost - As Submitted				61.71
K.2				
Total Unit Cost - As Evaluated				

Prepared by:


 ELWICK P. ACUÑA

Engineer II

Checked/Reviewed


 ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : 404(1)b
Reinforcing Steel, Grade 60
Unit of Measurement : 47,668.78 Kg.
Output per hour-As Submitted : 180.00
Output per hour-As Evaluated :


Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	2	1	58.61	117.22
b. Unskilled Laborer	8	1	45.16	361.25
Sub-Total for A-1 As Submitted				559.42
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Service Crane (21 - 25 mt.)	1	0.15	1,522.00	228.30
b. Cargo Truck (9 - 10 mt.)	1	0.15	1,212.00	181.80
c. Bar Cutter	1	0.50	219.75	109.88
d. Bar Bender	1	0.50	351.50	175.75
Sub-Total for B-1 As Submitted				695.73
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				1,255.14
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				180.00
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				6.97
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Tie Wire (2% of RSB)	kg.	0.021	100.00	2.10
b. Reinforcing Steel Bar	kg.	1.05	40.00	42.00
(with 5% wastage)				
Sub-Total for F-1 As Submitted				44.10
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				51.07
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				6.13
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				4.09
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				3.06
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				64.35
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed


ELWICK P. ACUÑA

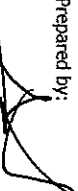
Engineer II


ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : 405(1)b3
 Unit of Measurement : Structural Concrete, Class "A"
 Output per hour-As Submitted : 717.11 cu.m.
 Output per hour-As Evaluated : 10.00

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	4	1	58.61	234.44
c. Unskilled Laborer	8	1	45.16	361.25
Installation/Removal of Formworks				
a. Foreman	1	1	80.95	80.95
a. Skilled Laborer	4	1	58.61	234.44
b. Unskilled Laborer	8	1	45.16	361.25
Sub-Total for A-1 As Submitted				1,353.27
Labor				
Sub-Total for A-2 As Evaluated				
Equipment				
a. Transit Mixer (5 cu.m.)	2	1	1,318.00	2,636.00
b. Concrete Vibrator	2	1	91.25	182.50
c. Batchling Plant (30 cu.m.)	1	0.5	1,759.50	879.75
d. Payloader (1.50 cu.m.), LX80-2C	1	0.5	1,733.00	866.50
e. Water Truck/Pump (16000 L)	1	0.25	2,450.00	612.50
f. Crawler Crane w/ Bucket (36 - 40 mt.)	1	0.5	2,282.40	1,141.20
Sub-Total for B-1 As Submitted				6,318.45
Equipment				
Sub-Total for B-2 As Evaluated				
C1 Total (A.1+B.1) - As Submitted				7,671.72
C2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				10.00
D.2 Output per Hour - As Evaluated				
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				767.17
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Lumber, Good - 4 uses	bd.ft.	100.00	37.00	925.00
b. Plywood (1/2" x 4' x 8') - 4 uses	pc.	1.50	820.00	307.50
c. Assorted GWN	kg.	1.00	73.00	73.00
d. Cement	bag	10.50	304.00	3,192.00
e. Sand	cu.m.	0.50	1,651.05	825.53
f. Gravel	cu.m.	1.00	1,441.05	1,441.05
f. Curing Compound	L.	1.00	35.00	35.00
Sub-Total for F-1 As Submitted				6,799.08
Materials				
Sub-Total for F-2 As Evaluated				
G.1 Sub-Total for F-2 As Evaluated				7,566.25
G.2 Direct Unit Cost (E.1+F.1) - As Submitted				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				907.95
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				605.30
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				453.97
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				9,533.47
K.2 Total Unit Cost - As Evaluated				-


Prepared by:

 ELWICK P. ACUÑA
 Engineer II

Checked/Reviewed

 ISIDRA A. ESTANISLAO
 Engineer IV

Item No./Description : 412(1)
Unit of Measurement : Elastic Bearing Pad
Output per hour-As Submitted : 16.00 each
Output per hour-As Evaluated : 1.00

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Foreman	1	1	80.95	80.95
b. Unskilled Laborer	2	1	45.16	90.31
Sub-Total for A-1 As Submitted				171.26
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
B.1				
Equipment				
a. Wood/Steel Ladder	1	1	100.00	100.00
Sub-Total for B-1 As Submitted				100.00
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				271.26
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				1.00
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				271.26
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1				
Materials				
a. Elastic Bearing Pad	each	1.00	16,150.00	16,150.00
Miscellaneous 10% of Labor				17.13
Sub-Total for F-1 As Submitted				16,167.13
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				16,438.39
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				1,972.61
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				1,315.07
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				986.30
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				20,712.37
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
	Labor				
	a. Foreman	1	1	80.95	80.95
A.1	b. Skilled Laborer	6	1	58.61	351.65
	b. Unskilled Laborer	6	1	45.16	270.94
	Sub-Total for A-1 As Submitted				703.54
	Labor				
A.2					
	Sub-Total for A-2 As Evaluated				
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
	Equipment				
	a. Truck Mounted Crane	1	1	2,606.00	2,606.00
B.1	b. Welding Machine	2	0.33	371.00	244.86
	c. Cutting Outfit	2	0.33	45.45	30.00
	Minor Tools 10% of Labor Cost				70.35
	Sub-Total for B-1 As Submitted				2,951.21
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				3,654.75
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				0.01
D.2	Output per Hour - As Evaluated				
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				365,475.24
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
	Materials				
	a. Structural Steel - MS Plate	kg.	899.22	47.00	42,263.34
	b. Structural Steel - Angular Bar	kg.	446.51	48.00	21,432.48
F.1	c. 20 mm Plain (Rod) Bar	kg.	25.44	40.00	1,017.60
	d. Welding Rod	kg.	0.75	163.00	122.25
	e. Oxy/acetylene	set	0.50	2,500.00	1,250.00
	Miscellaneous 5% of Material Cost				3,304.28
	Sub-Total for F-1 As Submitted				69,389.95
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				434,865.19
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				52,183.82
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1	Contractor's Profit - As Submitted				34,789.22
I.2	Contractor's Profit - As Evaluated				-
J.1	Value Added Tax - As Submitted				26,091.91
J.2	Value Added Tax - As Evaluated				-
K.1	Total Unit Cost - As Submitted				547,930.14
K.2	Total Unit Cost - As Evaluated				-

Engineer IV


Item No./Description : 414(1)
Forms and Falsework
Unit of Measurement : 1.00 L.S.
Output per hour-As Submitted :
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Foreman	1	150	80.95	12,142.69
b. Skilled Laborer	4	150	58.61	35,165.25
b. Unskilled Laborer	8	150	45.16	54,187.50
Sub-Total for A-1 As Submitted				101,495.44
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. H-Frame 1.7 m. x 1.2 m., set	112	120	0.76	10,214.40
2 pcs. H - Frame				
4 pcs. Diagonal cross braces				
4 pcs. Horizontal Braces				
B.1				
8 pcs. Joint Pins				
b. Adjustable U-yeard Jack	56	120	0.11	739.20
c. Adjustable Base Jack	56	120	0.11	739.20
d. G.I. Pipe Schedule 40 (75 mm. dia.) x 6 m. long	349	120	0.31	12,982.80
e. Swivel Clamp	227	120	0.13	3,541.20
Minor Tools 10% of Labor				10,149.54
Sub-Total for B-1 As Submitted				38,366.34
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				139,861.78
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				139,861.78
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Good Lumber - 4 uses	bd.ft.	25,000.00	37.00	231,250.00
Consumables 5% of Materials Cost				11,562.50
Sub-Total for F-1 As Submitted				242,812.50
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				382,674.28
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				45,920.91
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				30,613.94
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				22,960.46
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				482,169.59
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed


ELWICK P. ACUÑA
Engineer II



ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 508(1)
Unit of Measurement : Hand Laid Rock Embankment
Output per hour-As Submitted : 972.61 cu.m.
Output per hour-As Evaluated : 3.125

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	2	1	58.61	117.22
c. Unskilled Laborer	8	1	45.16	361.25
Sub-Total for A-1 As Submitted				559.42
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
B.1				
Equipment				
Minor Tools 10% of Labor				55.94
Sub-Total for B-1 As Submitted				55.94
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				615.36
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				3.13
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				196.92
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				
F.1				
Materials				
a. Boulder	cu.m.	1.05	1,281.05	1,345.10
Sub-Total for F-1 As Submitted				1,345.10
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				1,542.02
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				185.04
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				123.36
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				92.52
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				1,942.94
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed


ELWICK P. ACUÑA
Engineer II


ISIDRA A. ESTANISLAO
Engineer IV

UNIT COST ANALYSIS FOR HAULING COST FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

DESCRIPTION	QUANTITY (bags)
Construction of Field Office for the Engineer	135.00
Structural Concrete, Class "A"	7,529.66
Lean Concrete	129.30
T O T A L	7,793.95

Quantity = **7,793.95** Bags

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga City DEO	20.00
Batching plant	

*Average hauling distance from Source to assumed Stockpiling area :
say 20.00 km.

Delivery Charge = P 0.120 x 20.00
= P **2.40 / bag**

*Delivery Truck : 7,793.95 bags, (hauling works)
20,000.00 kgs., (capacity per haul)
or 500.00 bags, (capacity per haul)

*Capacity of Laborers unloading bags of Cement from Delivery Truck :
Assume (10) laborers can unload 500.00 bags of Cement.

*Dumptruck (10 wheeler) days computation : **TIME-MOTION ANALYSIS**

Speed when loaded : 30.00 kph
Speed when unloaded : 40.00 kph
Loaded running = $\frac{20.00}{30.00} \times 60$ = 40.00 mins.
Unloaded running = $\frac{20.00}{40.00} \times 60$ = 30.00 mins.
Loading and Unloading : 45.00 mins.
allowance for delay/traffic : 3.00 mins.
Capacity of Dumptruck : 8.00 cum.
: 500.00 bags
Total Cycle time : 118.00 mins.
No. of trips for Dumptruck per day = $\frac{8.0}{118.00} \times 60.00$ = 4.07 say 4.07
Dumptruck daily output = 500 x 4.07 = 2,033.90 cum.
Using (3) Dumptrucks = 3 x 2,033.90 = 6,101.69 cum.

1. No. of days for Delivery Truck = $\frac{7,793.95}{6,101.69}$ = 1.28 say 1.28 days
2. No. of days for Labor, for unloading = complimentary to D. Truck days = 1.28 days

DELIVERY COST :

7,793.95 - Bags, Portland Cement @ P 2.40 / bag = P
Sub - Total 18,705.48

LABOR :

1 - Foreman @ P 611.92 /day x 1.28 days = P 781.63
10 - Laborers, unloading @ P 342.24 /day x 1.28 days = P 4,371.57
Sub - Total 5,153.21

MATERIALS :

7,793.95 - Bags, Portland Cement @ P 300.00 / bag = P
(Pick-up Price) **Sub - Total** 2,338,185.00

Estimated Quantity 7,793.95 Bags
Unit Cost P 303.06 / Bag, say P 304.00 / Bag
Grand Total P 2,342,043.69
Delivery Cost P 18,705.48
Labor P 5,153.21
Materials P 2,338,185.00

UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

Hauling Cost from the Quarry to Batchling plant

Item No. :	ALL AGGREGATES	Terrain :	Flat to Rolling
Quantity :	1,000.00	Unit :	cu.m.
		Hauling Distance :	5.00 km.
		Effective Working Hours :	8.00 hrs.

Hauling: Using 10.00 cu.m.capacity Dumptruck

Weight of Dumptruck (cap. 10.00 cu.m.)

Unit weight of Fine Aggregates

Maximum Volume to be Carried per DT

*Dumptruck (10 Wheeler) days computation : TIME-MOTION ANALYSIS

Speed when loaded	:	30.00	kph
Speed when unloaded	:	40.00	kph
Loaded running	=	$\frac{5.00}{30.00} \times 60$	= 10.00 mins.
Unloaded running	=	$\frac{5.00}{40.00} \times 60$	= 7.50 mins.

Loading and Unloading allowance for delay/traffic	:	5.00 mins.
Capacity of Dumptruck	:	3.00 mins.
Total Cycle time	:	10.00 cu.m.
No. of tips for Dumptruck per day	=	$\frac{8}{25.50} \times 60.00$ = 18.82 sqy 18.82 trips
Dumptruck daily output	=	10 x 18.82 = 188.24 cu.m.
Using (5) Dumptrucks	=	5 x 188.24 = 941.18 cu.m.

$$1. \text{ No. of days for Dumptrucks } = \frac{1,000.00}{941.18} = 1.06 \text{ sqy } 1.06 \text{ days}$$

EQUIPMENT USED : (2009 ACEL RATES)

5 - Unit Dumptruck	@ P	11,360.00 /day	x	1.06 days	= P	60,350.00
Sub - Total						P 60,350.00

Estimated Quantity 1,000.00 cu.m.
Unit Cost 12.07 /cu. m./km. (Unit Cost, Hauling per cu.m.per Km.)

Grand Total	P	60,350.00
Equipment	P	60,350.00
Labor	P	
Materials	P	

	Hauling Distance	Unit Cost per cu.m./km.	Hauling Cost per cu.m.	Unit Price	Unit Cost per cu.m.
Cost of Fine Aggregates:	15.00 x	12.07 =	181.05 +	1,470.00 =	1,651.05
Cost of Coarse Aggregates:	15.00 x	12.07 =	181.05 +	1,260.00 =	1,441.05
Cost of Item 200 Materials:	15.00 x	12.07 =	181.05 +	714.00 =	895.05
Cost of Item 201 Materials:	15.00 x	12.07 =	181.05 +	680.00 =	861.05
Cost of Item 300 Materials:	15.00 x	12.07 =	181.05 +	735.00 =	916.05
Cost of Boulders:	15.00 x	12.07 =	181.05 +	1,100.00 =	1,281.05
Cost of Embankment, Common Borrow:	5.00 x	12.07 =	60.35 +	328.00 =	388.35