

PROGRAM OF WORK/BUDGET COST

FORM POW-2015-01-00

Project	: Construction of By-Pass and Diversion Roads, Buenavista - Bolong Coastal Bypass Road (Lubigan - Mala Section) Including Bridge, Zamboanga City
Project ID	:
Location	: Zamboanga City
Station Limits	: K1898+723 - K1899+160, K1901+220 - K1901+335 (Approach), K1901+335 - K1901+425 (Bridge), K1901+425 - K1901+590 (Approach)
Source of Funds	: CY-2019

Net Length	:	(a) Road	716.10	ln.m	1.43	lane km
		(b) Bridge	90.90	ln.m		
		(c) Others				
Target Start Date	:					
Total Project Duration	:		360	Calendar Days		
No. of Pre-determined	:		46	Calendar Days		
Unworkable Days	:		37	Calendar Days		

DESCRIPTION OF WORKS TO BE DONE	QUANTITY	UNIT	AS SUBMITTED		AS EVALUATED	
			% TOTAL	TOTAL DIRECT COST	% TOTAL	TOTAL DIRECT COST
PART A: Facilities for the Engineers			1.24%	1,105,657.57		
B: Other General Requirements			1.44%	1,284,006.55		
C: Earthworks			26.08%	23,268,351.09		
D: Subbase and Base Course			5.31%	4,741,644.62		
E: Surface Courses			9.13%	8,148,532.84		
F: Bridge Construction			48.38%	43,160,072.34		
G: Drainage and Slope Protection Structures			7.19%	6,410,909.45		
H: Miscellaneous Structure			1.23%	1,095,408.09		

100.00%

89,214,582.56

EQUIPMENT:

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


BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	4,955,665.26	
2. Materials	68,070,955.06	
3. Rental of Equipment	16,187,962.24	
4. Provisional Sum/Daywork	-	
5. OCM and Profit	15,767,007.18	
6. Value Added Tax	5,249,079.49	
7. EAO, 3.5%	3,858,073.42	
8. RROW Acquisition	5,000,000.00	
9. Physical Reserved (Contingency)	911,257.35	
10. TOTAL ESTIMATED COST	120,000,000.00	

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	89,214,582.56	
B. OCM and Profit	15,767,007.18	
C. Value Added Tax	5,249,079.49	
D. Total Construction Cost	-	
E. Eng'g. & Administrative Overhead	3,858,073.42	
F. RROW Acquisition	5,000,000.00	
G. Physical Reserved (Contingency)	911,257.35	
H. TOTAL ESTIMATED COST	120,000,000.00	

Preparation and Submission:

Prepared by:

Prepared by: 

ELWICK P. ACUÑA

Engineer II

Maintenance Division

Checked/Submiietd by:

ISIDRA A. ESTANISLAO

ISIDRA A. ESTANISLAO

Engineer IV

Maintenance Division

Evaluation:

Reviewed by:

Reviewed by: 
SATURNINO C. TORREBRANCA

SATURNINO C. TORREFRANCA

District Engineer

Planning & Design Division

Approval:

Recommending Approval

KHADAFY B. TANGGOL

KHADAFFY B. TANGGOL

OIC-Assistant Regional Director

Approved:

CAYAMOMBAO D. DIA

CAYAMOMBAO D. DIA

Regional Director



Construction of By-Pass and Diversion Roads, Buenavista - Bolong Coastal Bypass Road (Lubigan - Mala Section) Including Bridge, Zamboanga City
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	
PART A	Facilities for the Engineers										
A.1.1(3)	Construction of Field Office for the Engineer	1.00		L.S.	421,184.37		421,184.37		521,847.44		0.47%
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.	317,340.00		317,340.00		359,863.56		0.36%
A.1.2(5)	Operation and Maintenance of 4 x 4 Pick-Up Type Service Vehicle for the Engineer	12.00		month	367,133.20		30,594.43		32,124.16		0.41%
	TOTAL OF PART A				1,105,657.57						1.24%
PART B	Other General Requirements										
B.4(1)	Construction Survey & Staking	0.72		km.	30,945.59		43,214.07		53,542.23		0.03%
B.5	Project Billboard/Signboard	2.00		each	11,007.96		5,503.98		6,819.43		0.01%
B.7	Occupation Safety & Health	12.00		month	372,123.00		31,010.25		35,165.62		0.42%
B.9	Mobilization & Demobilization	1.00		L.S.	869,930.00		869,930.00		913,426.50		0.98%
	TOTAL OF PART B				1,284,006.55						1.44%
PART C	Earthworks										
102(1)	Unsuitable Excavation	8,683.00		cu.m.	2,078,867.36		239.42		296.64		2.33%
103(2)a	Bridge Excavation, Common Soil	397.51		cu.m.	92,020.78		231.49		286.82		0.10%
103(2)b	Bridge Excavation, Soft Rock	673.95		cu.m.	233,976.65		347.17		430.15		0.26%
104(1)a	Embankment from Roadway Excavation	7,786.00		cu.m.	1,797,798.72		230.90		286.09		2.02%
104(2)a	Embankment from Borrow	5,347.00		cu.m.	3,109,241.87		581.49		720.47		3.49%
104(5)	Boulder Fill	8,479.00		cu.m.	15,936,981.71		1,879.58		2,328.80		17.86%
105(1)a	Subgrade Preparation	1,215.80		cu.m.	19,464.00		16.01		19.84		0.02%
	TOTAL OF PART C				23,268,351.09						26.08%
PART D	Subbase and Base Course										
200(1)	Aggregate Subbase Course	3,663.00		cu.m.	4,741,644.62		1,294.47		1,603.85		5.31%
	TOTAL OF PART D				4,741,644.62						5.31%
PART E	Surface Courses										
300(1)	Gravel Surface Course	190.00		cu.m.	249,882.35		1,315.17		1,629.50		0.28%
311(1)e1	Portland Cement Concrete Pavement	4,356.00		sq.m.	7,898,650.49		1,813.28		2,246.65		8.85%
	TOTAL OF PART E				8,148,532.84						9.13%

ITEM NO.	DESCRIPTION	QUANTITY		UNIT	DIRECT COST				TOTAL UNIT COST		% DIRECT COST
					TOTAL		UNIT COST		TOTAL		
		AS SUBMITTED	AS EVALUATED		AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	AS EVALUATED
PART F	Bridge Construction										
400(1)a1	Precast Concrete Piles, furnished (400 mm x 400 mm)	1,760.00		m.	6,277,701.67		3,566.88		4,419.36		7.04%
400(6)	Structural Steel Sheet Piles, furnished	1,134.00		kg.	2,822,074.44		2,488.60		3,083.38		3.16%
400(12)	Structural Steel Sheet Piles, driven	756.00		kg.	743,502.02		983.47		1,218.52		0.83%
400(14)	Precast Concrete Piles, driven (soft strata)	1,672.00		m.	2,658,888.93		1,590.24		1,970.31		2.98%
400(16)a	Test Piles, furnished and driven	80.00		m.	343,099.57		4,288.74		5,313.75		0.38%
401(2)a	Concrete Railing	179.96		m.	2,339,452.07		12,999.84		16,106.81		2.62%
402(1)	Timber Structure	14.00		span	692,386.01		49,456.14				0.78%
404(1)a	Reinforcing Steel, Grade 40	5,165.02		kg.	252,946.63		48.97		60.68		0.28%
404(1)b	Reinforcing Steel, Grade 60	126,639.64		kg.	6,467,868.97		51.07		63.28		7.25%
405(1)b2	Structural Concrete, Class "A"	752.84		cu.m.	6,338,778.98		8,419.82		10,432.16		7.11%
406(1)f8	Prestressed Structural Concrete Member, Type IV-B	12.00		each	11,298,886.06		941,573.84		1,166,609.99		12.66%
407(8)	Lean Concrete	18.25		cu.m.	109,663.37		6,008.95		7,445.09		0.12%
412(1)	Elastomeric Bearing Pad	24.00		each	394,521.36		16,438.39		20,367.17		0.44%
413(3)b	Premolded Expansion Joint Filler with Sealant	7.18		cu.m.	3,662.62		510.11		632.03		0.00%
413(7)a1	Expansion Dam for Bridges (Steel)	2.00		set	869,730.38		434,865.19		538,797.97		0.97%
414(1)	Forms and Faisework	1.00		L.S.	1,546,909.26		1,546,909.26		1,916,620.57		1.73%
	TOTAL OF PART F				43,160,072.34						48.38%
PART G	Drainage and Slope Protection Structures										
505(2)a	Grouted Riprap, Class "A"	659.45		cu.m.	3,504,144.49		5,313.74		6,583.72		3.93%
507(1)	Rubble Concrete	110.31		cu.m.	539,476.01		4,890.54		6,059.39		0.60%
508(1)	Hand Laid Rock Embankment	1,366.70		cu.m.	2,367,288.95		1,732.12		2,146.10		2.65%
	TOTAL OF PART G				6,410,909.45						7.19%
PART H	Miscellaneous Structure										
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	170.00		sq.m.	125,839.22		740.23		917.15		0.14%
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	56.00		sq.m.	45,667.41		815.49		1,010.39		0.05%
715(1)	Geotextile	5,224.00		sq.m.	923,901.46		176.86		219.13		1.04%
	TOTAL OF PART H				1,095,408.09						1.23%
	GRAND TOTAL				89,214,582.56						100.00%



Construction of By-Pass and Diversion Roads, Buenavista - Bocaue Coastal Bypass Road (Lubigan - Mala Section) Including Bridge, Zamboanga City
Zamboanga City

FORM POW-2015-01B-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	Service Crane	21 - 25 mt.	1
6	Payloader	1.50 cu.m/1.95 cu.yd	4	31	Crawler Crane with Bucket	36 - 40 mt.	1
7	Water Truck/Pump	16000L	2	32	Truck Mounted Crane with Bucket	41 - 45 mt.	1
8	Water Tank		2	33	Stressing (Jack) Machine		1
9	Transit Mixer	5-6 cu. Yd	4	34	Grouting Machine, Air Driven		1
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	Truck Mounted Crane		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		10
TOTAL							61



REGIONAL OFFICE IX

Construction of By-Pass and Diversion Roads, Buenavista - Bolong Coastal Bypass Road (Lubigan - Mala Section) Including Bridge, Zamboanga City
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
						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	0.47%	1.00	L.S.	343,799.07	45,026.64	32,358.66	421,184.37	18.00%	75,813.19	24,849.88
A.1.1(11)	Provision of Provision of Furnitures/Fxtures, Equipment and Appliances for the Field Office for the Field Engineer	AS EVALUATED										
		AS SUBMITTED	0.36%	1.00	L.S.	317,340.00	-	-	317,340.00	8.00%	25,387.20	17,136.36
A.1.2(5)	Operation and Maintenance of 4 x 4 Pick-Up Type Service Vehicle for the Engineer	AS EVALUATED										
		AS SUBMITTED	0.41%	12.00	month	198,340.00	168,793.20	-	367,133.20	0.00%	-	18,356.66
	TOTAL OF PART A	AS EVALUATED										
		AS SUBMITTED	1.24%			859,479.07	213,819.84	32,358.66	1,105,657.57		101,200.39	60,342.90
PART B	Other General Requirements											
B.4(1)	Construction Survey & Staking	AS EVALUATED										
		AS SUBMITTED	0.03%	0.72	km.	7,895.00	19,327.58	3,723.01	30,945.59	18.00%	5,570.21	1,825.79
B.5	Project Billboard/Signboard	AS EVALUATED										
		AS SUBMITTED	0.01%	2.00	each	7,330.00	3,677.96	-	11,007.96	18.00%	1,981.43	649.47
B.7	Occupation Safety & Health	AS EVALUATED										
		AS SUBMITTED	0.42%	12.00	month	26,760.00	285,363.00	60,000.00	372,123.00	8.00%	29,769.84	20,094.64
B.9	Mobilization & Demobilization	AS EVALUATED										
		AS SUBMITTED	0.98%	1.00	L.S.	-	-	869,930.00	869,930.00	0.00%	-	43,496.50
	TOTAL OF PART B	AS EVALUATED										
		AS SUBMITTED	1.44%			41,985.00	308,368.54	933,653.01	1,284,006.55		37,321.48	66,066.40
PART C	Earthworks											
102(1)	Unsuitable Excavation	AS EVALUATED										
		AS SUBMITTED	2.33%	8,683.00	cu.m.	-	93,958.74	1,984,908.62	2,078,867.36	18.00%	374,196.13	122,653.17
103(2)a	Bridge Excavation, Common Soil	AS EVALUATED										
		AS SUBMITTED	0.10%	397.51	cu.m.	-	4,568.83	87,451.95	92,020.78	18.00%	16,563.74	5,429.23
103(2)b	Bridge Excavation, Soft Rock	AS EVALUATED										
		AS SUBMITTED	0.26%	673.95	cu.m.	-	11,065.90	222,910.76	233,976.65	18.00%	42,115.80	13,804.62
104(1)a	Embankment from Roadway Excavation	AS EVALUATED										
		AS SUBMITTED	2.02%	7,786.00	cu.m.	-	48,804.62	1,748,994.10	1,797,798.72	18.00%	323,603.77	106,070.12
104(2)a	Embankment from Borrow	AS EVALUATED										
		AS SUBMITTED	3.49%	5,347.00	cu.m.	2,595,634.31	18,314.95	495,292.61	3,109,241.87	18.00%	559,663.54	183,445.27
104(5)	Boulder Fill	AS EVALUATED										
		AS SUBMITTED	17.86%	8,479.00	cu.m.	13,017,003.20	758,929.85	2,161,048.67	15,936,981.71	18.00%	2,868,656.71	940,281.92
105(1)a	Subgrade Preparation	AS EVALUATED										
		AS SUBMITTED	0.02%	1,215.80	cu.m.	-	694.07	18,769.93	19,464.00	18.00%	3,503.52	1,148.38
	TOTAL OF PART C	AS EVALUATED										
		AS SUBMITTED	26.08%			15,612,637.51	936,336.96	6,719,376.62	23,268,351.09		4,188,303.20	1,372,832.71
PART D	Subbase and Base Course											
200(1)	Aggregate Subbase Course	AS EVALUATED										
		AS SUBMITTED	5.31%	3,663.00	cu.m.	4,389,794.15	12,546.78	339,303.69	4,741,644.62	18.00%	853,496.03	279,757.03
	TOTAL OF PART D	AS EVALUATED										
		AS SUBMITTED	5.31%			4,389,794.15	12,546.78	339,303.69	4,741,644.62		853,496.03	279,757.03

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 E	Surface Courses												
300(1)	Gravel Surface Course	AS EVALUATED											
		AS SUBMITTED	0.28%	190.00	cu.m.	231,631.85	650.80	17,599.70	249,882.35	18.00%	44,978.82	14,743.06	309,604.23
311(1)e1	Portland Cement Concrete Pavement	AS EVALUATED											
		AS SUBMITTED	8.85%	4,356.00	sq.m.	6,921,639.13	64,943.13	912,068.22	7,898,650.49	18.00%	1,421,757.09	466,020.38	9,786,427.95
	TOTAL OF PART E	AS EVALUATED											
		AS SUBMITTED	9.13%			7,153,270.98	65,593.93	929,667.92	8,148,532.84		1,466,735.91	480,763.44	10,096,032.19
PART F	Bridge Construction												
400(1)a1	Precast Concrete Piles, furnished (400 mm x 400 mm)	AS EVALUATED											
		AS SUBMITTED	7.04%	1,760.00	m.	5,000,424.00	476,351.92	800,925.75	6,277,701.67	18.00%	1,129,986.30	370,384.40	7,778,072.37
400(6)	Structural Steel Sheet Piles, furnished	AS EVALUATED											
		AS SUBMITTED	3.16%	1,134.00	kg.	2,776,032.00	4,543.58	41,498.86	2,822,074.44	18.00%	507,973.40	166,502.39	3,496,550.23
400(12)	Structural Steel Sheet Piles, driven	AS EVALUATED											
		AS SUBMITTED	0.83%	756.00	kg.	62,354.31	53,187.72	627,959.99	743,502.02	18.00%	133,830.36	43,866.62	921,199.00
400(14)	Precast Concrete Piles, driven (soft strata)	AS EVALUATED											
		AS SUBMITTED	2.98%	1,672.00	m.	714,920.45	490,133.74	1,453,834.74	2,658,888.93	18.00%	478,600.01	156,874.45	3,294,363.38
400(16)a	Test Piles, furnished and driven	AS EVALUATED											
		AS SUBMITTED	0.38%	80.00	m.	250,086.72	23,451.38	69,561.47	343,099.57	18.00%	61,757.92	20,242.87	425,100.36
401(2)a	Concrete Railing	AS EVALUATED											
		AS SUBMITTED	2.62%	179.96	m.	2,172,765.16	138,372.11	28,314.79	2,339,452.07	18.00%	421,101.37	138,027.67	2,898,581.11
402(1)	Timber Structure	AS EVALUATED											
		AS SUBMITTED	0.78%	14.00	span	166,893.73	78,796.62	446,695.66	692,386.01	18.00%	124,629.48	40,850.77	857,866.27
404(1)a	Reinforcing Steel, Grade 40	AS EVALUATED											
		AS SUBMITTED	0.28%	5,165.02	kg.	216,930.84	16,052.27	19,963.52	252,946.63	18.00%	45,530.39	14,923.85	313,400.88
404(1)b	Reinforcing Steel, Grade 60	AS EVALUATED											
		AS SUBMITTED	7.25%	126,639.64	kg.	5,584,808.12	393,581.05	489,479.80	6,467,868.97	18.00%	1,164,216.41	381,604.27	8,013,689.66
405(1)b2	Structural Concrete, Class "A"	AS EVALUATED											
		AS SUBMITTED	7.11%	752.84	cu.m.	5,761,221.03	101,879.77	475,678.19	6,338,778.98	18.00%	1,140,980.22	373,987.96	7,853,747.16
406(1)f8	Prestressed Structural Concrete Member, Type IV-8	AS EVALUATED											
		AS SUBMITTED	12.66%	12.00	each	8,640,000.00	779,484.96	1,879,401.10	11,298,886.06	18.00%	2,033,799.49	666,634.28	13,999,319.82
407(8)	Lean Concrete	AS EVALUATED											
		AS SUBMITTED	0.12%	18.25	cu.m.	97,640.24	2,996.55	9,026.58	109,663.37	18.00%	19,739.41	6,470.14	135,872.92
412(1)	Elastomeric Bearing Pad	AS EVALUATED											
		AS SUBMITTED	0.44%	24.00	each	388,011.03	4,110.33	2,400.00	394,521.36	18.00%	71,013.85	23,276.76	488,811.97
413(3)b	Premolded Expansion Joint Filler with Sealant	AS EVALUATED											
		AS SUBMITTED	0.00%	7.18	cu.m.	3,590.00	66.02	6.60	3,662.62	18.00%	659.27	216.09	4,537.99
413(7)a1	Expansion Dam for Bridges (Steel)	AS EVALUATED											
		AS SUBMITTED	0.97%	2.00	set	138,779.91	140,708.25	590,242.23	869,730.38	18.00%	156,551.47	51,314.09	1,077,595.94
414(1)	Forms and Falsework	AS EVALUATED											
		AS SUBMITTED	1.73%	1.00	L.S.	1,419,450.00	112,566.60	14,892.66	1,546,909.26	18.00%	278,443.67	91,267.65	1,916,620.57
	TOTAL OF PART F	AS EVALUATED											
		AS SUBMITTED	48.38%			33,393,907.54	2,816,282.87	6,949,881.94	43,160,072.34		7,768,813.02	2,546,444.27	53,475,329.63
PART G	Drainage and Slope Protection Structures												
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED											
		AS SUBMITTED	3.93%	659.45	cu.m.	3,024,138.42	295,126.96	184,879.12	3,504,144.49	18.00%	630,746.01	206,744.52	4,341,635.02
507(1)	Rubble Concrete	AS EVALUATED											
		AS SUBMITTED	0.60%	110.31	cu.m.	462,724.70	44,078.20	32,673.11	539,476.01	18.00%	97,105.68	31,829.08	668,410.78
508(1)	Hand Laid Rock Embankment	AS EVALUATED											
		AS SUBMITTED	2.65%	1,366.70	cu.m.	2,098,164.67	244,658.43	24,465.84	2,367,288.95	18.00%	426,112.01	139,670.05	2,933,071.01
	TOTAL OF PART G	AS EVALUATED											
		AS SUBMITTED	7.19%			5,585,027.79	583,863.59	242,018.07	6,410,909.45		1,153,963.70	378,243.66	7,943,116.81

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 H	Miscellaneous Structure												
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	AS EVALUATED											
		AS SUBMITTED	0.14%	170.00	sq.m.	115,093.41	3,189.92	7,555.89	125,839.22	18.00%	22,651.06	7,424.51	155,914.80
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	AS EVALUATED											
		AS SUBMITTED	0.05%	56.00	sq.m.	42,127.61	1,050.80	2,489.00	45,667.41	18.00%	8,220.13	2,694.38	56,581.92
715(1)	Geotextile	AS EVALUATED											
		AS SUBMITTED	1.04%	5,224.00	sq.m.	877,632.00	14,612.02	31,657.44	923,901.46	18.00%	166,302.26	54,510.19	1,144,713.91
	TOTAL OF PART H	AS EVALUATED											
		AS SUBMITTED	1.23%			1,034,853.02	18,852.74	41,702.33	1,095,408.09		197,173.46	64,629.08	1,357,210.63
	GRAND TOTAL	AS EVALUATED											
		AS SUBMITTED	100.00%			68,070,955.06	4,955,665.26	16,187,962.24	89,214,582.56		15,767,007.18	5,249,079.49	110,230,669.23



DPWH REGIONAL OFFICE IX

Construction of By-Pass and Diversion Roads, Buenavista - Bolong Coastal Bypass Road (Lubigan - Mala Section) Including Bridge, Zamboanga City
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	1,105,657.57		101,200.39	60,342.90	161,543.29	1,267,200.86
PART B	Other General Requirements	AS EVALUATED						
		AS SUBMITTED	1,284,006.55		37,321.48	66,066.40	103,387.88	1,387,394.44
PART C	Earthworks	AS EVALUATED						
		AS SUBMITTED	23,268,351.09		4,188,303.20	1,372,832.71	5,561,135.91	28,829,487.00
PART D	Subbase and Base Courses	AS EVALUATED						
		AS SUBMITTED	4,741,644.62		853,496.03	279,757.03	1,133,253.06	5,874,897.68
PART E	Surface Courses	AS EVALUATED						
		AS SUBMITTED	8,148,532.84		1,466,735.91	480,763.44	1,947,499.35	10,096,032.19
PART F	Bridge Construction	AS EVALUATED						
		AS SUBMITTED	43,160,072.34		7,768,813.02	2,546,444.27	10,315,257.29	53,475,329.63
PART G	Drainage and Slope Protection Structures	AS EVALUATED						
		AS SUBMITTED	6,410,909.45		1,153,963.70	378,243.66	1,532,207.36	7,943,116.81
PART H	Miscellaneous Structure	AS EVALUATED						
		AS SUBMITTED	1,095,408.09		197,173.46	64,629.08	261,802.53	1,357,210.63
TOTAL		AS EVALUATED						
		AS SUBMITTED	89,214,582.56		15,767,007.18	84,839,959.75	21,016,086.67	110,230,669.23

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. TORREFRANCA

District Engineer

Planning & Design Division

Approval:

Recommending Approval

KHADAFFY D. TANGGOL

OIC-Assistant Regional Director

Approved:

CAYAMOMBAO D. DIA

Regional Director



DP REGIONAL OFFICE IX

Construction of By-Pass and Diversion Roads, Buenavista - Bolong Coastal Bypass Road (Lubigan - Mala Section) Including Bridge, Zamboanga City
Zamboanga City

FORM POW-2015-02A-00

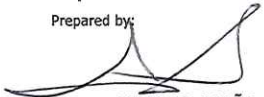
ITEM NO.	DESCRIPTION		QTY	UNIT	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
						%	VALUE				
PART A	Facilities for the Engineers										
A.1.1(3)	Construction of Field Office for the Engineer	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	421,184.37	18.00%	75,813.19	24,849.88	100,663.07	521,847.44	513,960.77
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.	317,340.00	8.00%	25,387.20	17,136.36	42,523.56	359,863.56	329,718.06
A.1.2(5)	Operation and Maintenance of 4 x 4 Pick-Up Type Service Vehicle for the Engineer	AS EVALUATED									
		AS SUBMITTED	12.00	month	367,133.20	0.00%	-	18,356.66	18,356.66	385,489.86	32,124.16
	TOTAL OF PART A	AS EVALUATED									
		AS SUBMITTED			1,105,657.57		101,200.39	60,342.90	161,543.29	1,267,200.86	
PART B	Other General Requirements										
B.4(1)	Construction Survey & Staking	AS EVALUATED									
		AS SUBMITTED	0.72	km.	30,945.59	18.00%	5,570.21	1,825.79	7,396.00	38,341.59	53,542.23
B.5	Project Billboard/Signboard	AS EVALUATED									
		AS SUBMITTED	2.00	each	11,007.96	18.00%	1,981.43	649.47	2,630.90	13,638.86	6,819.43
B.7	Occupation Safety & Health	AS EVALUATED									
		AS SUBMITTED	12.00	month	372,123.00	8.00%	29,769.84	20,094.64	49,864.48	421,987.48	35,165.62
B.9	Mobilization & Demobilization	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	869,930.00	0.00%	-	43,496.50	43,496.50	913,426.50	913,426.50
	TOTAL OF PART B	AS EVALUATED			-						
		AS SUBMITTED			1,284,006.55		37,321.48	66,066.40	103,387.88	1,387,394.44	
PART C	Earthworks										
102(1)	Unsuitable Excavation	AS EVALUATED									
		AS SUBMITTED	8,683.00	cu.m.	2,078,867.36	18.00%	374,196.13	122,653.17	496,849.30	2,575,716.66	296.64
103(2)a	Bridge Excavation, Common Soil	AS EVALUATED									
		AS SUBMITTED	397.51	cu.m.	92,020.78	18.00%	16,563.74	5,429.23	21,992.97	114,013.74	286.82
103(2)b	Bridge Excavation, Soft Rock	AS EVALUATED									
		AS SUBMITTED	673.95	cu.m.	233,976.65	18.00%	42,115.80	13,804.62	55,920.42	289,897.07	430.15
104(1)a	Embankment from Roadway Excavation	AS EVALUATED									
		AS SUBMITTED	7,786.00	cu.m.	1,797,798.72	18.00%	323,603.77	106,070.12	429,673.89	2,227,472.61	286.09
104(2)a	Embankment from Borrow	AS EVALUATED									
		AS SUBMITTED	5,347.00	cu.m.	3,109,241.87	18.00%	559,663.54	183,445.27	743,108.81	3,852,350.67	720.47
104(5)	Boulder Fill	AS EVALUATED									
		AS SUBMITTED	8,479.00	cu.m.	15,936,981.71	18.00%	2,868,656.71	940,281.92	3,808,938.63	19,745,920.34	2,328.80
105(1)a	Subgrade Preparation	AS EVALUATED									
		AS SUBMITTED	1,215.80	cu.m.	19,464.00	18.00%	3,503.52	1,148.38	4,651.90	24,115.90	19.84
	TOTAL OF PART C	AS EVALUATED									
		AS SUBMITTED	-	-	23,268,351.09		4,188,303.20	1,372,832.71	5,561,135.91	28,829,487.00	

ITEM NO.	DESCRIPTION		QTY	UNIT	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
						%	VALUE				
PART D	Subbase and Base Course										
200(1)	Aggregate Subbase Course	AS EVALUATED									
		AS SUBMITTED	3,663.00	cu.m.	4,741,644.62	18.00%	853,496.03	279,757.03	1,133,253.06	5,874,897.68	1,603.85
	TOTAL OF PART D	AS EVALUATED									
		AS SUBMITTED	-	-	4,741,644.62		853,496.03	279,757.03	1,133,253.06	5,874,897.68	
PART E	Surface Courses										
300(1)	Gravel Surface Course	AS EVALUATED									
		AS SUBMITTED	190.00	cu.m.	249,882.35	18.00%	44,978.82	14,743.06	59,721.88	309,604.23	1,629.50
311(1)e1	Portland Cement Concrete Pavement	AS EVALUATED									
		AS SUBMITTED	4,356.00	sq.m.	7,898,650.49	18.00%	1,421,757.09	466,020.38	1,887,777.47	9,786,427.95	2,246.65
	TOTAL OF PART E	AS EVALUATED									
		AS SUBMITTED			8,148,532.84		1,466,735.91	480,763.44	1,947,499.35	10,096,032.19	
PART F	Bridge Construction										
400(1)a1	Precast Concrete Piles, furnished (400 mm x 400 mm)	AS EVALUATED									
		AS SUBMITTED	1,760.00	m.	6,277,701.67	18.00%	1,129,986.30	370,384.40	1,500,370.70	7,778,072.37	4,419.36
400(6)	Structural Steel Sheet Piles, furnished	AS EVALUATED									
		AS SUBMITTED	1,134.00	kg.	2,822,074.44	18.00%	507,973.40	166,502.39	674,475.79	3,496,550.23	3,083.38
400(12)	Structural Steel Sheet Piles, driven	AS EVALUATED									
		AS SUBMITTED	756.00	kg.	743,502.02	18.00%	133,830.36	43,866.62	177,696.98	921,199.00	1,218.52
400(14)	Precast Concrete Piles, driven (soft strata)	AS EVALUATED									
		AS SUBMITTED	1,672.00	m.	2,658,888.93	18.00%	478,600.01	156,874.45	635,474.45	3,294,363.38	1,970.31
400(16)a	Test Piles, furnished and driven	AS EVALUATED									
		AS SUBMITTED	80.00	m.	343,099.57	18.00%	61,757.92	20,242.87	82,000.80	425,100.36	5,313.75
401(2)a	Concrete Railing	AS EVALUATED									
		AS SUBMITTED	179.96	m.	2,339,452.07	18.00%	421,101.37	138,027.67	559,129.04	2,898,581.11	16,106.81
402(1)	Timber Structure	AS EVALUATED									
		AS SUBMITTED	14.00	span	692,386.01	18.00%	124,629.48	40,850.77	165,480.26	857,866.27	61,276.16
404(1)a	Reinforcing Steel, Grade 40	AS EVALUATED									
		AS SUBMITTED	5,165.02	kg.	252,946.63	18.00%	45,530.39	14,923.85	60,454.25	313,400.88	60.68
404(1)b	Reinforcing Steel, Grade 60	AS EVALUATED									
		AS SUBMITTED	126,639.64	kg.	6,467,868.97	18.00%	1,164,216.41	381,604.27	1,545,820.68	8,013,689.66	63.28
405(1)b2	Structural Concrete, Class "A"	AS EVALUATED									
		AS SUBMITTED	752.84	cu.m.	6,338,778.98	18.00%	1,140,980.22	373,987.96	1,514,968.18	7,853,747.16	10,432.16
406(1)f8	Prestressed Structural Concrete Member, Type IV-B	AS EVALUATED									
		AS SUBMITTED	12.00	each	11,298,886.06	18.00%	2,033,799.49	666,634.28	2,700,433.77	13,999,319.82	1,166,609.99
407(8)	Lean Concrete	AS EVALUATED									
		AS SUBMITTED	18.25	cu.m.	109,663.37	18.00%	19,739.41	6,470.14	26,209.55	135,872.92	7,445.09
412(1)	Elastomeric Bearing Pad	AS EVALUATED									
		AS SUBMITTED	24.00	each	394,521.36	18.00%	71,013.85	23,276.76	94,290.61	488,811.97	20,367.17
413(3)b	Premolded Expansion Joint Filler with Sealant	AS EVALUATED									
		AS SUBMITTED	7.18	cu.m.	3,662.62	18.00%	659.27	216.09	875.37	4,537.99	632.03
413(7)e1	Expansion Dam for Bridges (Steel)	AS EVALUATED									
		AS SUBMITTED	2.00	set	869,730.38	18.00%	156,551.47	51,314.09	207,865.56	1,077,595.94	538,797.97
414(1)	Forms and Falsework	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	1,546,909.26	18.00%	278,443.67	91,267.65	369,711.31	1,916,620.57	1,916,620.57
	TOTAL OF PART E	AS EVALUATED									
		AS SUBMITTED			43,160,072.34		7,768,813.02	2,546,444.27	10,315,257.29	53,475,329.63	

ITEM NO.	DESCRIPTION		QTY	UNIT	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
						%	VALUE				
PART G	Drainage and Slope Protection Structures										
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED									
		AS SUBMITTED	659.45	cu.m.	3,504,144.49	18.00%	630,746.01	206,744.52	837,490.53	4,341,635.02	6,583.72
507(1)	Rubble Concrete	AS EVALUATED									
		AS SUBMITTED	110.31	cu.m.	539,476.01	18.00%	97,105.68	31,829.08	128,934.77	668,410.78	6,059.39
508(1)	Hand Laid Rock Embankment	AS EVALUATED									
		AS SUBMITTED	1,366.70	cu.m.	2,367,288.95	18.00%	426,112.01	139,670.05	565,782.06	2,933,071.01	2,146.10
	TOTAL OF PART G	AS EVALUATED									
		AS SUBMITTED			6,410,909.45		1,153,963.70	378,243.66	1,532,207.36	7,943,116.81	
PART H	Miscellaneous Structure										
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	AS EVALUATED									
		AS SUBMITTED	170.00	sq.m.	125,839.22	18.00%	22,651.06	7,424.51	30,075.57	155,914.80	917.15
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	AS EVALUATED									
		AS SUBMITTED	56.00	sq.m.	45,667.41	18.00%	8,220.13	2,694.38	10,914.51	56,581.92	1,010.39
715(1)	Geotextile	AS EVALUATED									
		AS SUBMITTED	5,224.00	sq.m.	923,901.46	18.00%	166,302.26	54,510.19	220,812.45	1,144,713.91	219.13
	TOTAL OF PART H	AS EVALUATED									
		AS SUBMITTED			1,095,408.09		197,173.46	64,629.08	261,802.53	1,357,210.63	
	GRAND TOTAL	AS EVALUATED									
		AS SUBMITTED			89,214,582.56		15,767,007.18	5,122,670.19	21,016,086.67	110,230,669.23	

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:

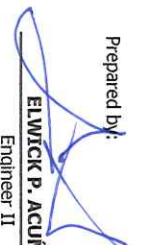

SATURNINO C. TORREANCA
 District Engineer
 Planning & Design Division

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 :

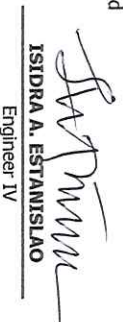
Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Construction Foreman	1	64	80.95	5,180.88
A.1				
b. Masons	3	64	58.61	11,252.88
c. Carpenters	3	64	58.61	11,252.88
d. Laborers	6	64	45.16	17,340.00
Sub-Total for A-1 As Submitted				45,026.64
Labor				
A.2				
Sub-Total 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	1,562.10	5,467.35
b. Selected Fill	cu.m.	10.00	388.35	3,883.50
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	306.00	27,540.00
b. Crushed Gravel	cu.m.	21.00	1,562.10	32,804.10
c. Washed Sand	cu.m.	18.00	1,762.10	31,717.80
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	306.00	13,770.00
c. Washed Sand	cu.m.	8.00	1,762.10	14,096.80
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 -w/	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 Cromate	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.	Telescrew 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 tangle	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					343,799.07			
Equipment								
F.2								
Sub-Total for F-2 As Evaluated								
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				421,184.37			
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated							
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				42,118.44			
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated							
I.1	Contractor's Profit - As Submitted				33,694.75			
I.2	Contractor's Profit - As Evaluated							
J.1	Value Added Tax - As Submitted				24,849.88			
J.2	Value Added Tax - As Evaluated							
K.1	Total Unit Cost - As Submitted				521,847.44			
K.2	Total Unit Cost - As Evaluated							

Prepared by:


ELWICK P. ACUÑA
 Engineer II

Checked/Reviewed

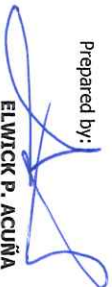

ISIDRA A. ESTANISLAO
 Engineer IV


Item No./Description : A.1.1(11)
Unit of Measurement : 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	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
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			-
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				
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
(Folders, Bond Paper, Yellow Pads, Ball Pens, Pencil, Envelopes, etc.)				
F.1				
g. Kitchenware	L.S.	1.00	30,000.00	30,000.00
(Plates, Spoons & Forks, Glasses, etc.)				
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	60,000.00	60,000.00
Lighting/Water Fixtures				
a. Electrical Bill	mo.	12.00	3,000.00	36,000.00
b. Water Bill	mo.	12.00	1,500.00	18,000.00
c. LPG (11 kg)	mo.	12.00	1,000.00	12,000.00
Sub-Total for F-1 As Submitted				317,340.00
Equipment				
F.2				
Sub-Total for F-2 As Evaluated				
G.1	Direct Unit Cost (E.1+F.1) - As Submitted			317,340.00
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			25,387.20
I.2	Contractor's Profit - As Evaluated			-
J.1	Value Added Tax - As Submitted			17,136.36
J.2	Value Added Tax - As Evaluated			-
K.1	Total Unit Cost - As Submitted			359,863.56
K.2	Total Unit Cost - As Evaluated			-

Prepared by:

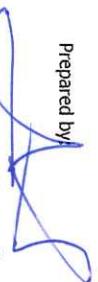
Checked/Reviewed


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 : 12.00 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	2,880.00	58.61	168,793.20
Sub-Total for A-1 As Submitted				168,793.20
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				168,793.20
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	3,600.00	31.00	111,600.00
b. Spare Parts	L.S.	1.00	40,000.00	40,000.00
c. Engine Oil & Lubricants	L.S.	1.00	16,740.00	16,740.00
d. Miscellaneous	L.S.	1.00	30,000.00	30,000.00
Sub-Total for F-1 As Submitted				198,340.00
Equipment				
F.2 Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				198,340.00
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				9,917.00
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				208,257.00
K.2 Total Unit Cost - As Evaluated				-

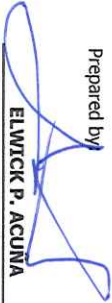
Prepared by:

ELWICK P. ACUÑA
Engineer II


Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : B.4(1)
Construction Survey & Staking
Unit of Measurement : 0.72 km.
Output per hour-As Submitted : 0.04
Output per hour-As Evaluated :

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				
A.2				
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				
B.2				
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				4,321.41
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				2,549.63
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				53,542.23
K.2 Total Unit Cost - As Evaluated				-

Prepared by

ELWICK P. ACUNA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : B.5
Unit of Measurement : Project Billboard/Signboard
Output per hour-As Submitted : 2.00 each
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
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				
B.1				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
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				-
F.1				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Ordinary Plywood 1/2" thk. x 4' x 8'	pc.	2.00	750.00	1,500.00
b. Tarpaulin (4' x 8')	pc.	2.00	1,000.00	2,000.00
c. Assorted Lumber	bd.ft.	100.00	37.00	3,700.00
d. Assorted CW Nails	kg.	2.00	65.00	130.00
Sub-Total for F-1 As Submitted				7,330.00
Equipment				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				7,330.00
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				733.00
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				586.40
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				432.47
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				9,081.87
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
Unit of Measurement : Occupation Safety & Health
Output per hour-As Submitted : 12.00 month
Output per hour-As Evaluated :

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Safety Practioner	1	1440.00	80.95	116,569.80
	b. First Alder	1	2880.00	58.61	168,793.20
	Sub-Total for A-1 As Submitted				285,363.00
A.2	Labor				
	Sub-Total for A-2 As Evaluated				
B.1	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
	Equipment				
	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				345,363.00
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				345,363.00
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
	Materials				
	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				372,123.00
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				29,769.84
I.2	Contractor's Profit - As Evaluated				
J.1	Value Added Tax - As Submitted				20,094.64
J.2	Value Added Tax - As Evaluated				
K.1	Total Unit Cost - As Submitted				421,987.48
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
Unit of Measurement : Mobilization & Demobilization
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				
Labor				
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. Backhoe	2	48	1,537.00	73,776.00
B.1				
d. Bulldozer	1	48	3,379.00	162,192.00
e. Dump Truck	4	48	1,420.00	68,160.00
f. Payloader	1	48	1,733.00	83,184.00
g. Grader	1	40	2,173.00	86,920.00
h. Roller	1	40	1,846.00	73,840.00
Sub-Total for B-1 As Submitted				869,930.00
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				869,930.00
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				869,930.00
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				869,930.00
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				86,993.00
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				69,594.40
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				51,325.87
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				1,077,843.27
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

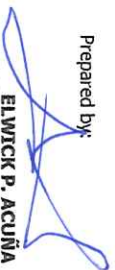

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed


ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 102(1)
Unit of Measurement : Unsuitable Excavation
Output per hour-As Submitted : 8,683.00 cu.m.
Output per hour-As Evaluated : 20.00

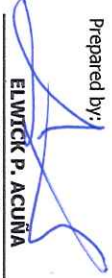
Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Foreman	1	1	80.95	80.95
b. Unskilled Laborer	3	1	45.16	135.47
Sub-Total for A-1 As Submitted				216.42
Labor				
Sub-Total for A-2 As Evaluated				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	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	1	1,537.00	1,537.00
c. Payloader (1.50 cu.m.) - disposal site	1	0.1	1,733.00	173.30
Minor Tools 10% of Labor				21.64
Sub-Total for B-1 As Submitted				4,571.94
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				4,788.36
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				239.42
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				239.42
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				23.94
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				19.15
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				14.13
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				296.64
K.2 Total Unit Cost - As Evaluated				-

Prepared by: 
ELWICK P. ACUÑA
Engineer II

Checked/Reviewed 
ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 103(2)a
Unit of Measurement : Bridge Excavation, Common Soil
Output per hour-As Submitted : 397.51 cu.m.
Output per hour-As Evaluated : 20.00


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.)
B.1				
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				23.15
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				13.66
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				286.82
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
Unit of Measurement : Bridge Excavation, Soft Rock
Output per hour-As Submitted : 673.95 cu.m.
Output per hour-As Evaluated : 14.00

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	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				34.72
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				20.48
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				430.15
K.2 Total Unit Cost - As Evaluated				-

Prepared by:

ELWICK P. ACUÑA
Engineer II


Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 104(1)a
Unit of Measurement : Embankment from Roadway Excavation
Output per hour-As Submitted : 7,786.00 cu.m.
Output per hour-As Evaluated : 50.00

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
For Excavation Work				
a. Foreman	1	0.83	80.95	67.19
b. Unskilled Laborer	2	0.83	45.16	74.96
A.1				
Spreading and Compaction				
a. Foreman	1	1	80.95	80.95
b. Unskilled Laborer	2	1	45.16	90.31
Sub-Total for A-1 As Submitted				313.41
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				
For Excavation Work				
a. Bulldozer, D6H Series II PSDS/DD	1	0.83	3,379.00	2,804.57
b. Payloader (1.50 cu.m.)	1	0.83	1,733.00	1,438.39
c. Dump Truck (12 cu.yd.)	2	0.83	1,420.00	2,357.20
Spreading and Compaction				
a. Motorized Road Grader (140 hp), G170A	1	1	2,173.00	2,173.00
b. Vibratory Roller (10 mt), SD100C	1	1	1,846.00	1,846.00
c. Water Truck/Pump (16000L)	1	0.25	2,450.00	612.50
Sub-Total for B-1 As Submitted				11,231.66
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				11,545.07
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				50.00
D.2				
Output per Hour - As Evaluated				230.90
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				
Sub-Total for F-1 As Submitted				-
Equipment				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				230.90
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				23.09
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				18.47
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				13.62
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				286.09
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

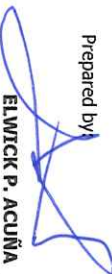

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed


ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 104(2)a
 Unit of Measurement : Embankment from Borrow
 Output per hour-As Submitted : 5,347.00 cu.m.
 Output per hour-As Evaluated : 50.00

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. 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				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1				
Equipment				
a. Motorized Road Grader (140 hp), G170A	1	1	2,173.00	2,173.00
b. Vibratory Roller (10 mt), SD100C	1	1	1,846.00	1,846.00
c. Water Truck/Pump (16000L)	1	0.25	2,450.00	612.50
Sub-Total for B-1 As Submitted				4,631.50
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				4,802.76
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				50.00
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				96.06
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Common Borrow	cu.m.	1.25	388.35	485.44
(with 25% wastage factor)				
Sub-Total for F-1 As Submitted				485.44
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				581.49
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				58.15
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				46.52
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				34.31
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				720.47
K.2				
Total Unit Cost - As Evaluated				-

Prepared by

ELWICK P. ACUÑA
 Engineer II

Checked/Reviewed


ISIDRA A. ESTANISLAO
 Engineer IV

**Section of By-Pass and Diversion Road (Bananavista - Bolong Coastal Bypass Road (Lubigan - W Section) Including Bridge, Zamboang
Zamboanga City**

FORM-POW-2015-01D-00

Item No./Description : 104(5)
Boulder Fill
Unit of Measurement : 8,479.00 cu.m.
Output per hour-As Submitted : 6.25
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
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				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1				
Equipment				
a. Backhoe (0.80 cu.m.)	1	1	1,537.00	1,537.00
Minor Tools 10% of Labor				55.94
Sub-Total for B-1 As Submitted				1,592.94
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				2,152.36
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				6.25
D.2				
Output per Hour - As Evaluated				344.38
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. Boulders (with 5% wastage factor)	cu.m.	1.05	1,462.10	1,535.21
Sub-Total for F-1 As Submitted				1,535.21
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				1,879.58
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				187.96
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				150.37
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				110.90
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				2,328.80
K.2				
Total Unit Cost - As Evaluated				-

Prepared by: 
ELWICK P. ACUÑA
Engineer II


Checked/Reviewed 
ISIDRA A. ESTANISLAO
Engineer IV

uction of By-Pass and Diversion Road **ienavista - Bolong Coastal Bypass Road (Lubigan - N Section) Including Bridge, Zamboang**
Zamboanga City

FORM-POW-2015-01D-00

Item No./Description : 105(1)a
Subgrade Preparation
Unit of Measurement : 1,215.80 cu.m.
Output per hour-As Submitted : 300.00
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. Unskilled Laborer	2	1	45.16	90.31
Sub-Total for A-1 As Submitted				171.26
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				
B.1				
a. Backhoe (0.80 cu.m.)	1	1	2,173.00	2,173.00
b. Vibratory Roller (10 mt), SD100C	1	1	1,846.00	1,846.00
c. Water Truck/Pump (16000 L)	1	0.25	2,450.00	612.50
Sub-Total for B-1 As Submitted				4,631.50
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				4,802.76
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				300.00
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				16.01
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				16.01
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				1.60
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				1.28
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				0.94
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				19.84
K.2				
Total Unit Cost - As Evaluated				-

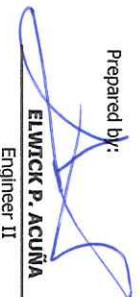
Prepared by/ 
ELWICK P. ACUÑA
Engineer II

Checked/Reviewed 
ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 200(1)
 Aggregate Subbase Course
 Unit of Measurement : 3,663.00 cu.m.
 Output per hour-As Submitted : 50.00
 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. Unskilled Laborer	2	1	45.16	90.31
Sub-Total for A-1 As Submitted				171.26
Labor				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Motorized Road Grader (140 hp), G710A	1	1	2,173.00	2,173.00
b. Vibratory Roller (10 mt), SD100C	1	1	1,846.00	1,846.00
c. Water Truck/Pump (16000 L)	1	0.25	2,450.00	612.50
Sub-Total for B-1 As Submitted				4,631.50
Equipment				
Sub-Total for B-2 As Evaluated				
Total (A.1+B.1) - As Submitted				4,802.76
Total (A.2+B.2) - As Evaluated				-
Output per Hour - As Submitted				50.00
Output per Hour - As Evaluated				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				96.06
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Aggregate Subbase Course (with 15% wastage factor)	cu.m.	1.15	1,042.10	1,198.42
Sub-Total for F-1 As Submitted				1,198.42
Materials				
Sub-Total for F-2 As Evaluated				
Direct Unit Cost (E.1+F.1) - As Submitted				1,294.47
Direct Unit Cost (E.2+F.2) - As Evaluated				-
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				129.45
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
Contractor's Profit - As Submitted				103.56
Contractor's Profit - As Evaluated				-
Value Added Tax - As Submitted				76.37
Value Added Tax - As Evaluated				-
Total Unit Cost - As Submitted				1,603.85
Total Unit Cost - As Evaluated				-

Prepared by:


ELWICK P. ACUÑA
 Engineer II

Checked/Reviewed


ISIDRA A. ESTANISLAO
 Engineer IV

Item No./Description : 300(1)
Gravel Surface Course
Unit of Measurement : 190.00 cu.m.
Output per hour-As Submitted : 50.00
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. Unskilled Laborer	2	1	45.16	90.31
Sub-Total for A-1 As Submitted				171.26
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				
B.1				
a. Motorized Road Grader (140 hp), G710A	1	1	2,173.00	2,173.00
b. Vibratory Roller (10 mt), SD100C	1	1	1,846.00	1,846.00
c. Water Truck/Pump (16000 L)	1	0.25	2,450.00	612.50
Sub-Total for B-1 As Submitted				4,631.50
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				4,802.76
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				50.00
D.2 Output per Hour - As Evaluated				
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				96.06
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
F.1				
a. Uncrushed Aggregate Surface Course (with 15% wastage factor)	cu.m.	1.15	1,060.10	1,219.12
Sub-Total for F-1 As Submitted				1,219.12
Equipment				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				1,315.17
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				131.52
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				105.21
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				77.60
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				1,629.50
K.2 Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed


ELWICK P. ACUÑA
Engineer II


ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 311(1)e1
Unit of Measurement : Portland Cement Concrete Pavement
Output per hour-As Submitted : 4,356.00 sq.m.
Output per hour-As Evaluated : 57.50

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	4	1	58.61	234.44
b. Unskilled Laborer	12	1	45.16	541.88
Sub-Total for A-1 As Submitted				857.26
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Equipment				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
a. Transit Mixer (5 cu.m.)	4	1	1,318.00	5,272.00
b. Concrete Vibrator	2	1	91.25	182.50
c. Concrete Batching Plant (30 cu.m.)	1	1	1,759.50	1,759.50
d. Payloader (1.50 cu.m.), LX80-2C	1	1	1,733.00	1,733.00
e. Concrete Screeder (5.5 hp)	1	1	545.00	545.00
f. Water Truck/Pump (16000 L)	1	1	2,450.00	2,450.00
g. Concrete Saw (7.5 hp), 14" Blade dia.	1	1	32.63	32.63
h. Bar Cutter, Single Phase	1	0.1	219.75	21.98
Mnor Tools 5% of Labor				42.86
Sub-Total for B-1 As Submitted				12,039.47
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				12,896.73
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				57.50
D.2 Output per Hour - As Evaluated				
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				224.29
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Materials				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
a. Reinforcing Steel Bar	kg.	0.50	38.00	19.00
b. Curing Compound	L	0.29	35.00	10.15
c. Asphalt Sealant	L	0.17	100.00	17.00
d. Steel Forms (Rental)	m.	0.46	40.00	18.40
e. Sand	cu.m.	0.154	1,762.10	271.36
f. Gravel	cu.m.	0.28	1,562.10	437.39
g. Cement	bag	2.66	306.00	813.96
h. Concrete Saw (Diamond Blade 14" dia.)	pc.	0.00015	2,500.00	0.38
i. Pipe Sleeve, 2" dia.	m.	0.0078	61.00	0.48
j. Grease/Tar	L	0.0078	112.50	0.88
Sub-Total for F-1 As Submitted				1,588.99
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				1,813.28
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				181.33
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				145.06
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				106.98
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				2,246.65
K.2 Total Unit Cost - As Evaluated				-

Prepared by


ELWICK P. ACUÑA

Engineer II

Checked/Reviewed


ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : 400(1)at
Unit of Measurement : Precast Concrete Piles, furnished (400 mm x 400 mm)
Output per hour-As Submitted : 1,760.00 m.
Output per hour-As Evaluated : 2.50

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	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				
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. 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				
B.2				
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. Coco Lumber	bd.ft.	15.333	13.00	199.33
e. Marine Plywood, 1/2" x 4' x 8' - 4 uses	pc.	0.268	1,100.00	73.70
f. Assorted GWN (1 kg./100 bd.ft. of Lumber)	kg.	0.163	65.00	10.60
Casting Bed				
a. Ready Mix Concrete, Class "B"	cu.m.	0.03	4,200.00	126.00
b. Coco Lumber	bd.ft.	1.00	37.00	37.00
c. Base Course	cu.m.	0.06	1,042.10	62.53
Sub-Total for F-1 As Submitted				2,841.15
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				3,566.88
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				356.69
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				285.35
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				210.45
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				4,419.36
K.2				
Total Unit Cost - As Evaluated				-

Prepared by/

Checked/Reviewed


ELWICK P. ACUÑA

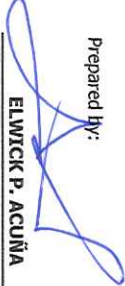
Engineer II


ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : 400(6)
Unit of Measurement : Structural Steel Sheet Piles, furnished
Output per hour-As Submitted : 1,134.00 Kg.
Output per hour-As Evaluated : 72.00

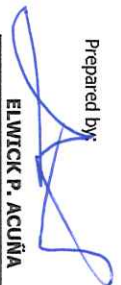
Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	2	1	58.61	117.22
b. Unskilled Laborer	2	1	45.16	90.31
Sub-Total for A-1 As Submitted				288.48
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Truck Mounted Crane (41 - 45 mt)	1	1	2,606.00	2,606.00
Minor Tools 10% of Labor Cost				28.85
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				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
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				248.86
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				146.83
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				3,083.38
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 : 756.00 kg.
Output per hour-As Evaluated : 10.00

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				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Truck Mounted Crane (41 - 45 m)	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.	0.02	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. Coco Lumber	bd.ft.	1.55	13.00	20.15
e. Assorted CWN (1 kg./100 bd.ft. Of Lumber)	kg.	0.02	65.00	1.30
Miscellaneous				1.62
2% of Material Cost				
Sub-Total for F-1 As Submitted				82.48
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				983.47
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				98.35
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				78.68
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				58.02
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				1,218.52
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)
Unit of Measurement : Precast Concrete Piles, driven (soft strata)
Output per hour-As Submitted : 1,672.00 m.
Output per hour-As Evaluated : 2.40

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				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
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.)
Materials				
a. Coco Logs - 2 uses	m.	1.00	350.00	175.00
b. Coco Lumber (Falsework)	bd.ft.	16.00	13.00	208.00
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				8.38
Sub-Total for F-1 As Submitted				427.58
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				1,590.24
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				159.02
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				127.22
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				93.82
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				1,970.31
K.2 Total Unit Cost - As Evaluated				-

Prepared by:

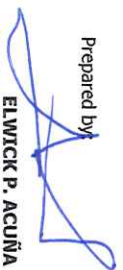
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ELWICK P. ACUÑA
Engineer II


ISIDRA A. ESTANISLAO
Engineer IV

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

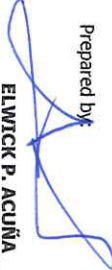
Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	6	1	58.61	351.65
b. Unskilled Laborer	6	1	45.16	270.94
Sub-Total for A-1 As Submitted				703.54
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
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.)
Materials				
a. Coco Logs - 2 uses	m.	2.00	350.00	350.00
b. Coco Lumber (Falsework)	bd.ft.	16.00	13.00	208.00
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				11.88
Sub-Total for F-1 As Submitted				3,126.08
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				4,288.74
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				428.87
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				343.10
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				253.04
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				5,313.75
K.2				
Total Unit Cost - As Evaluated				-

Prepared by 
ELWICK P. ACUÑA
Engineer II

Checked/Reviewed 
ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 401(2)a
Concrete Railing
Unit of Measurement : 179.96 m.
Output per hour-As Submitted : 0.88
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	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				
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				
a. Concrete Vibrator	1	0.10	91.25	9.13
b. Bar Cutter	1	0.10	219.75	21.98
c. Bar Bender	1	0.10	351.50	35.15
d. Cutting Outfit	1	0.10	45.45	4.55
Minor Tools 10% of Labor Cost				67.66
Sub-Total for B-1 As Submitted				138.46
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				815.09
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				0.88
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				926.24
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Ready Mix Concrete	cu.m.	2.00	4,250.00	8,500.00
b. Reinforcing Steel Bar	kg.	16.00	38.00	608.00
c. Plywood 1/2" x 4' x 8' - 3 uses	pc.	0.16	820.00	43.73
d. Coco Lumber	bd.ft.	0.01	13.00	0.13
e. Assorted CWL (1 kg./100 bd.ft. Of Lumber)	kg.	1.00	65.00	65.00
f. Tie Wire (2% of RSB)	kg.	1.00	100.00	100.00
g. Oxy/Acetylene (1 kg./5000 kg. Of Steel)	kg.	1.00	2,520.00	2,520.00
Miscellaneous 2% of Material Cost				236.74
Sub-Total for F-1 As Submitted				12,073.60
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				12,999.84
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				1,299.98
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				1,039.99
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				766.99
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				16,106.81
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV


Item No./Description : 402(1)
Unit of Measurement : Timber Structure
Output per hour-As Submitted : 14.00 span
Output per hour-As Evaluated : 0.125

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				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
B.1 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				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
F.1 a. Coco Trunks	pc.	6.86	1,000.00	6,860.00
b. 5" x 10" x 12' Coco Lumber	pc.	7.143	650.00	4,642.95
c. 4" x 10" x 12' Coco Lumber	pc.	2.29	520.00	396.93
d. 25 mm dia. X 40 mm dia. Mach. Bolts with Standard Nuts & Washers	pc.	1.43	25.00	11.92
e. 25 mm dia. X 500 mm. Steel Bars	pc.	13.71	75.00	1,028.25
Sub-Total for F-1 As Submitted				12,940.05
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				50,475.21
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				5,047.52
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				4,038.02
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				2,978.04
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				62,538.79
K.2 Total Unit Cost - As Evaluated				-

Prepared by

Checked/Reviewed



ELWICK P. ACUÑA
Engineer II


ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 404(1)a
Unit of Measurement : Reinforcing Steel, Grade 40
Output per hour-As Submitted : 5,165.02 kg.
Output per hour-As Evaluated : 180.00


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	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.1 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				6.97
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				
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				4.90
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				2.89
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				60.68
K.2				
Total Unit Cost - As Evaluated				-

Prepared by: 
ELWICK P. ACUÑA
Engineer II

Checked/Reviewed 
ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 404(1)b
Unit of Measurement : Reinforcing Steel, Grade 60
Output per hour-As Submitted : 126,639.64 kg.
Output per hour-As Evaluated : 180.00

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	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				6.97
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				
F.1				
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				5.11
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				3.01
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				63.28
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 405(1)b2
Unit of Measurement : Structural Concrete, Class "A"
Output per hour-As Submitted : 752.84 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
A.1 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				
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. Transit Mixer (5 cu.m.)	2	1	1,318.00	2,636.00
b. Concrete Vibrator	2	1	91.25	182.50
c. Batching Plant (30 cu.m.)	1	0.5	1,750.50	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				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				7,671.72
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				
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, Coco	bd.ft.	70.00	13.00	910.00
b. Ordinary Plywood (1/2" x 4' x 8')	pc.	1.60	820.00	1,312.00
c. Assorted CWN	kg.	0.70	65.00	45.50
d. Cement	bag	9.50	306.00	2,907.00
e. Sand	cu.m.	0.50	1,762.10	881.05
f. Gravel	cu.m.	1.00	1,562.10	1,562.10
f. Curing Compound	L.	1.00	35.00	35.00
Sub-Total for F-1 As Submitted				7,652.65
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				8,419.82
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				841.98
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				673.59
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				496.77
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				10,432.16
K.2 Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed


ELWICK P. ACUÑA
Engineer II

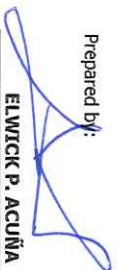

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 406(1)/8
Unit of Measurement : Prestressed Structural Concrete Member, Type IV-B
Output per hour-As Submitted : 12.00 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	96	80.95	7,771.32
b. Skilled Laborer	4	96	58.61	22,505.76
c. Unskilled Laborer	8	96	45.16	34,680.00
Sub-Total for A-1 As Submitted				64,957.08
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 with Bucket (41 - 45 mt.)	1	32	3,127.20	100,070.40
b. Payloader (1.50 cu.m.), LX80-2C	1	7	1,733.00	12,131.00
c. Stressing (Jack) Machine	1	9	2,500.00	22,500.00
d. Bar Cutter	1	14	219.75	3,076.50
e. Bar Bender	1	14	351.50	4,921.00
f. Cutting Outfit	1	7	45.45	318.15
g. Concrete Vibrator	2	5	91.25	912.50
h. Plate Compactor (5 hp)	2	7	123.00	1,722.00
i. Grouting Machine, Air Driven	1	2	866.25	1,732.50
j. Welding Machine (500 A), Electric Driven	1	7	391.00	2,737.00
Minor Tools 10% of Labor				6,495.71
Sub-Total for B-1 As Submitted				156,616.76
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				221,573.84
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				221,573.84
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Prestressed Concrete AASHTO Girder Type IVB	In.m.	30.00	24,000.00	720,000.00
Sub-Total for F-1 As Submitted				720,000.00
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				941,573.84
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				94,157.38
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				75,325.91
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				55,552.86
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				1,166,609.99
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed


ELWICK P. ACUÑA

Engineer II



ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : 407(8)
Unit of Measurement : Lean Concrete
Output per hour-As Submitted : 18.25 cu.m.
Output per hour-As Evaluated : 1.40

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				
Equipment				
B.1				
a. One Bagger Mixer	1	1	219.75	219.75
b. Concrete Vibrator	1	1	351.50	351.50
c. Water Truck/Pump (16000 l)	1	0.1	1,212.00	121.20
Sub-Total for B-1 As Submitted				692.45
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				922.32
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				1.40
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				658.80
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
F.1				
a. Cement	bag	9.50	306.00	2,907.00
b. Sand	cu.m.	0.50	1,762.10	881.05
c. Gravel	cu.m.	1.00	1,562.10	1,562.10
Sub-Total for F-1 As Submitted				5,350.15
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				6,008.95
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				600.90
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				480.72
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				354.53
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				7,445.09
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 : 24.00 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				271.26
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				
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				1,643.84
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				969.87
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				20,367.17
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed


ELWICK P. ACUÑA

Engineer II


ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : 413(3)b
Premolded Expansion Joint Filler with Sealant
Unit of Measurement : 7.18 cu.m.
Output per hour-As Submitted : 25.00
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
b. 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				
Minor Tools 10% of Labor Cost				22.99
Sub-Total for B-1 As Submitted				22.99
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				252.86
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				25.00
D.2 Output per Hour - As Evaluated				
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				10.11
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Joint Filler	each	1.00	500.00	500.00
Sub-Total for F-1 As Submitted				500.00
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				510.11
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				51.01
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				40.81
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				30.10
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				632.03
K.2 Total Unit Cost - As Evaluated				-

Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Dimension Dam for Bridges (Steel)

	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
A.2	Labor				
	Sub-Total for A-2 As Evaluated				
B.1	Equipment				
	a. Truck Mounted Crane	1	1	2,606.00	2,606.00
	b. Welding Machine	2	0.33	371.00	244.86
	c. Cutting Oufit	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
B.2	Equipment				
C.1	Sub-Total for B-2 As Evaluated				
	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				
F.1	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				
F.2	Materials				
					69,389.95
G.1	Sub-Total for F-2 As Evaluated				
	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				43,486.52
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				25,657.05
J.2	Value Added Tax - As Evaluated				-
K.1	Total Unit Cost - As Submitted				
K.2	Total Unit Cost - As Evaluated				538,797.97
					-

Checked/Reviewed

Engineer II

Engineer IV

414(1)
Forms
1


	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
	Labor				
	a. Foreman	1	160	80.95	12,952.20
A.1	b. Skilled Laborer	6	160	58.61	56,264.40
	b. Unskilled Laborer	6	160	45.16	43,350.00
	Sub-Total for A-1 As Submitted				112,566.60
	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				
	a. Cutting Outfit	1	80	45.45	3,636.00
	Minor Tools 10% of Labor				11,256.66
	Sub-Total for B-1 As Submitted				14,892.66
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				127,459.26
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				127,459.26
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
	Materials				
	a. 63 mm. dia. G.I. Pipes	pc.	600.00	1,885.00	1,131,000.00
	b. 63 mm. dia. C-Clamp	pc.	1,800.00	55.00	99,000.00
F.1	c. #16 G.I. Tie Wire	kg.	18.00	100.00	1,800.00
	d. Oxy/Acetylene	set	3.00	2,500.00	7,500.00
	e. Plywood 1/4" x 4' x 8'	pc.	110.00	450.00	49,500.00
	f. Coco Lumber	bd.ft.	10,000.00	13.00	130,000.00
	g. Assorted CWN Nails	kg.	10.00	65.00	650.00
	Sub-Total for F-1 As Submitted				1,419,450.00
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				1,546,909.26
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				154,690.93
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1	Contractor's Profit - As Submitted				123,752.74
I.2	Contractor's Profit - As Evaluated				-
J.1	Value Added Tax - As Submitted				91,267.65
J.2	Value Added Tax - As Evaluated				-
K.1	Total Unit Cost - As Submitted				1,916,620.57
K.2	Total Unit Cost - As Evaluated				-

ELWICK P. ACUÑA
Engineer II


ISIDRA A. ESTANISLAO
 Engineer IV

Item No./Description : 505(2)a
Unit of Measurement : Grouted Riprap, Class "A"
Output per hour-As Submitted : 659.45 cu.m.
Output per hour-As Evaluated : 1.25

	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
A.2	Labor				
	Sub-Total for A-2 As Evaluated				
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1	Equipment				
	a. One Bagger Mixer	1	1	172.00	172.00
	b. Water Truck/Pump (16000 L)	1	0.05	2,450.00	122.50
	Minor Tools 10% of Labor				55.94
	Sub-Total for B-1 As Submitted				350.44
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				909.86
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				1.25
D.2	Output per Hour - As Evaluated				
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				727.89
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1	Materials				
	a. Cement	bag	3.00	306.00	918.00
	b. Sand	cu.m.	0.25	1,762.10	440.53
	c. Gravel	cu.m.	0.15	1,562.10	234.32
	d. Weep Holes (PVC)	m.	0.30	4,700.00	1,410.00
	e. Filter Cloth	sq.m.	0.015	160.00	2.40
	f. Boulder	cu.m.	1.05	1,462.10	1,535.21
	Miscellaneous 1% of Material Cost				45.40
	Sub-Total for F-1 As Submitted				4,585.85
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				5,313.74
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				531.37
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1	Contractor's Profit - As Submitted				425.10
I.2	Contractor's Profit - As Evaluated				-
J.1	Value Added Tax - As Submitted				313.51
J.2	Value Added Tax - As Evaluated				-
K.1	Total Unit Cost - As Submitted				6,583.72
K.2	Total Unit Cost - As Evaluated				-

Prepared by: 
ELWICK P. ACUÑA
Engineer II

Checked/Reviewed 
ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 507(1)
Unit of Measurement : Rubble Concrete
Output per hour-As Submitted : 110.31 cu.m.
Output per hour-As Evaluated : 1.40

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
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				
Equipment				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1				
a. One Bagger Mixer	1	1	172.00	172.00
b. Water Truck/Pump (16000 L)	1	0.05	2,450.00	122.50
c. Backhoe (Wheel Type, 0.28 cu.m.)	1	0.1	922.00	92.20
Minor Tools				27.97
Sub-Total for B-1 As Submitted				414.67
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				974.09
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				1.40
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				695.78
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Materials				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
a. Cement	bag	4.20	306.00	1,285.20
b. Sand	cu.m.	0.2625	1,762.10	462.55
c. Gravel	cu.m.	0.02	1,562.10	31.24
d. Weep Holes (PVC)	m.	0.30	4,700.00	1,410.00
e. Filter Cloth	sq.m.	0.015	160.00	2.40
f. Boulder	cu.m.	0.63	1,462.10	921.12
Miscellaneous	2% of Material Cost			82.25
Sub-Total for F-1 As Submitted				4,194.77
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				4,890.54
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				489.05
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				391.24
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				288.54
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				6,059.39
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed

 ELWICK P. ACUÑA

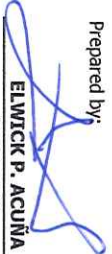
Engineer II

 ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : 508(1)
Unit of Measurement : Hand Laid Rock Embankment
Output per hour-As Submitted : 1,366.70 cu.m.
Output per hour-As Evaluated : 3.125

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
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				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1				
Equipment				
Minor Tools 10% of Labor				55.94
Sub-Total for B-1 As Submitted				55.94
Equipment				
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				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Boulder	cu.m.	1.05	1,462.10	1,535.21
Sub-Total for F-1 As Submitted				1,535.21
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				1,732.12
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				173.21
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				138.57
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				102.20
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				2,146.10
K.2				
Total Unit Cost - As Evaluated				-


Prepared by: 
ELWICK P. ACUÑA
Engineer II

Checked/Reviewed 
ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 612(1)
Unit of Measurement : Reflectorized Thermoplastic Pavement Markings (White)
Output per hour-As Submitted : 170.00 sq.m.
Output per hour-As Evaluated : 25.00

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
c. Unskilled Laborer	6	1	45.16	270.94
Sub-Total for A-1 As Submitted				469.11
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Equipment				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1				
a. Cargo Truck (2 - 5 mt.)	1	1	783.00	783.00
b. Applicator Machine	1	1	93.75	93.75
c. Kneading Machine	1	1	187.50	187.50
Minor Tools				46.91
Sub-Total for B-1 As Submitted				1,111.16
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				1,580.27
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				25.00
D.2				
Output per Hour - As Evaluated				63.21
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Materials				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
a. Thermoplastic Paint (White)	bag	0.33	1,585.00	515.13
b. Glass Beads	bag	0.03	2,500.00	82.50
c. Primer	L	0.12	160.00	19.20
d. LPG (50 kg.)	cyl.	0.00	3,450.00	13.80
e. LPG (12 kg.)	cyl.	0.00	828.00	1.66
f. Calsunline	kg.	0.13	100.00	12.50
Miscellaneous	5% of Material Cost			32.24
Sub-Total for F-1 As Submitted				677.02
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				740.23
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				74.02
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				59.22
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				43.67
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				917.15
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

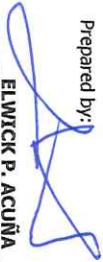

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed


ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 612(2)
Unit of Measurement : ReflectORIZED Thermoplastic Pavement Markings (Yellow)
Output per hour-As Submitted : 56.00 sq.m.
Output per hour-As Evaluated : 25.00

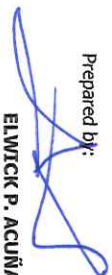
Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	2	1	58.61	117.22
b. Unskilled Laborer	6	1	45.16	270.94
Sub-Total for A-1 As Submitted				469.11
Labor				
Sub-Total for A-2 As Evaluated				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Cargo Truck (2 - 5 mt.)	1	1	783.00	783.00
b. Applicator Machine	1	1	93.75	93.75
c. Kneading Machine	1	1	187.50	187.50
Minor Tools				46.91
Sub-Total for B-1 As Submitted				1,111.16
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				1,580.27
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				25.00
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				63.21
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Thermoplastic Paint (Yellow)	bag	0.33	1,800.00	585.00
b. Glass Beads	bag	0.03	2,500.00	82.50
c. Primer	L	0.12	175.00	21.00
d. LPG (50 kg.)	cyl.	0.00	3,450.00	13.80
e. LPG (12 kg.)	cyl.	0.00	828.00	1.66
f. Calsurline	kg.	0.13	100.00	12.50
Miscellaneous				35.82
Sub-Total for F-1 As Submitted				752.28
Equipment				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				815.49
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				81.55
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				65.24
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				48.11
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				1,010.39
K.2				
Total Unit Cost - As Evaluated				-

Prepared by: 
ELWICK P. ACUÑA
Engineer II

Checked/Reviewed 
ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 715(1)
Geotextile
Unit of Measurement : 5,224.00 sq.m.
Output per hour-As Submitted : 200.00
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	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				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Cargo Truck/Delivery Truck (9 - 10 mt.)	1	1	1,212.00	1,212.00
Sub-Total for B-1 As Submitted				1,212.00
Equipment				
Sub-Total for B-2 As Evaluated				
Total (A.1+B.1) - As Submitted				1,771.42
Total (A.2+B.2) - As Evaluated				-
Output per Hour - As Submitted				200.00
Output per Hour - As Evaluated				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				8.86
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Filter Cloth	sq.m.	1.05	160.00	168.00
Sub-Total for F-1 As Submitted				168.00
Materials				
Sub-Total for F-2 As Evaluated				
Direct Unit Cost (E.1+F.1) - As Submitted				176.86
Direct Unit Cost (E.2+F.2) - As Evaluated				-
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				17.69
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
Contractor's Profit - As Submitted				14.15
Contractor's Profit - As Evaluated				-
Value Added Tax - As Submitted				10.43
Value Added Tax - As Evaluated				-
Total Unit Cost - As Submitted				219.13
Total Unit Cost - As Evaluated				-

Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

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
Portland Cement Concrete Pavement	11,586.96
Structural Concrete, Class "A"	7,151.98
Lean Concrete	173.38
Grouded Riprap, Class "A"	1,978.35
Rubble Concrete	463.30
T O T A L	21,488.97

Quantity = **21,488.97** Bags

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga City DEO	35.00
Batching plant	

*Average hauling distance from Source to assumed Stockpiling area :
say 35.00 km.

$$\text{Delivery Charge} = P \quad 0.120 \quad \times \quad 35.00 \\ = P \quad \mathbf{4.20} \quad / \text{ bag}$$

*Delivery Truck : 21,488.97 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	=	$\frac{35.00}{30.00} \times 60$	= 70.00 mins.
Unloaded running	=	$\frac{35.00}{40.00} \times 60$	= 52.50 mins.
Loading and Unloading allowance for delay/traffic	:	45.00	mins.
Capacity of Dumptruck	:	3.00	mins.
	:	8.00	cum.
	:	500.00	bags
	:	170.50	mins.
Total Cycle time	=	$\frac{8.0}{170.50} \times 60.00$	= 2.82 say 2.82
No. of trips for Dumptruck per day	=	$\frac{500}{2.82}$	= 1,407.62 cum.
Dumptruck daily output	=	500 x 2.82	= 1,407.62 cum.
Using (3) Dumptrucks	=	3 x 1407.62	= 4,222.87 cum.

1. No. of days for Delivery Truck	=	$\frac{21,488.97}{4,222.87}$	=	5.09	say	5.09	days
2. No. of days for labor, for unloading	=	complementary to D. Truck days	=			5.09	days

DELIVERY COST :

21,488.97	- Bags, Portland Cement	@ P	4.20	/ bag	= P	
				Sub - Total		<u>90,253.66</u>
					P	90,253.66

LABOR :

1	- Foreman	@ P	611.92 /day	x	5.09	days = P	
10	- Laborers, unloading	@ P	342.24 /day	x	5.09	days = P	
					Sub - Total		<u>3,113.88</u>
						P	<u>17,415.59</u>
							20,529.47

MATERIALS :

21,488.97	- Bags, Portland Cement	@ P	300.00	/ bag	= P	
	(Pick-Up Price)			Sub - Total		
					P	<u>6,446,690.10</u>
						6,446,690.10

Estimated Quantity	21,488.97	Bags			
Unit Cost	P	305.16 / Bag,	sqy	P	306.00 / Bag
Grand Total	P	6,557,473.23			
Delivery Cost	P	90,253.66			
Labor	P	20,529.47			
Materials	P	6,446,690.10			

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.)	:	16,000.00	kg.
Unit weight of Fine Aggregates	:	1,640.00	kg/m ³
Unit weight of Coarse Aggregates	:	1,534.00	kg/m ³
Maximum Volume to be Carried per DT	:	11.57	cu.m.

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

Speed when loaded	:	30.00	kph
Speed when unloaded	:	40.00	kph
Loaded running	=	$\frac{5.00 \times 60}{30.00}$	= 10.00 mins.
Unloaded running	=	$\frac{5.00 \times 60}{40.00}$	= 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 trips for Dumptruck per day	=	$\frac{8 \times 60.00}{25.50}$	= 18.82 say 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.

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

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 P 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:	30.00 x	12.07 =	362.10 +	1,400.00 =	1,762.10
Cost of Coarse Aggregates:	30.00 x	12.07 =	362.10 +	1,200.00 =	1,562.10
Cost of Item 200 Materials:	30.00 x	12.07 =	362.10 +	680.00 =	1,042.10
Cost of Item 201 Materials:	30.00 x	12.07 =	362.10 +	680.00 =	1,042.10
Cost of Item 300 Materials:	30.00 x	12.07 =	362.10 +	698.00 =	1,060.10
Cost of Boulders:	30.00 x	12.07 =	362.10 +	1,100.00 =	1,462.10
Cost of Embankment, Common Borrow:	5.00 x	12.07 =	60.35 +	328.00 =	388.35