



Project : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems Channelization of Putik River with Major Training Works, Zamboanga City

Net Length	:	(a) Road	ln.m	-	lane km
		(b) Bridge	ln.m		
		(c) Others	507.64 ln.m		

Project ID	:	
Location	:	Zamboanga City
Station Limits	:	0+000.00 - 0+208.00, 0+212.00 - 0+511.64
Source of Funds	:	CY-2019

Target Start Date	:	
Total Project Duration	:	250 Calendar Days
No. of Pre-determined	:	32 Calendar Days
Unworkable Days	:	26 Calendar Days

EQUIPMENT:


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

BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	3,310,572.64	
2. Materials	36,537,782.44	
3. Rental of Equipment	7,722,625.01	
4. Provisional Sum/Daywork	-	
5. OCM and Profit	9,276,126.27	
6. Value Added Tax	2,842,355.32	
7. EAO, 3.5%	2,165,450.00	
8. RROW Acquisition		
9. Physical Reserved (Contingency)	15,088.33	
10. TOTAL ESTIMATED COST	61,870,000.00	

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	47,570,980.09	
B. OCM and Profit	9,276,126.27	
C. Value Added Tax	2,842,355.32	
D. Total Construction Cost	-	
E. Eng'g. & Administrative Overhead	2,165,450.00	
F. RROW Acquisition	-	
G. Physical Reserved (Contingency)	15,088.33	
H. TOTAL ESTIMATED COST	61,870,000.00	

Preparation and Submission:

Prepared by: 
ELWICK P. ACUÑA
Engineer II
Maintenance Division

Checked/Submitted by:

ISIDRA A. ESTANISLAO
Engineer IV
Maintenance Division

Evaluation:

Reviewed by: 
SATURNINO C. TORREFRANCA
District Engineer
Planning & Design Division

Approval:

Recommending Approval

KHADAFFY D. TANGGOL

OIC-Assistant Regional Director

Approved:


CAYAMOMBAO D. DIA
Regional Director



Construction/Maintenance of Flood Mitigation Structures and Drainage Systems Channelization of Putik River with Major Training Works, 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.	405,271.00		405,271.00		510,641.46		0.85%
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.	297,173.33		297,173.33		336,994.56		0.62%
A.1.2(5)	Operation and Maintenance of 4 x 4 Pick-Up Type Service Vehicle for the Engineer	8.33		month	454,592.50		54,551.10		57,278.66		0.96%
	TOTAL OF PART A				1,157,036.83						2.43%
PART B	Other General Requirements										
B.4(1)	Construction Survey & Staking	0.51		km.	21,937.19		43,214.07		54,449.73		0.05%
B.5	Project Billboard/Signboard	4.00		each	18,337.96		4,584.49		5,776.46		0.04%
B.7	Occupation Safety & Health	8.33		month	284,928.75		34,191.45		38,773.10		0.60%
B.9	Mobilization & Demobilization	1.00		L.S.	386,495.00		386,495.00		405,819.75		0.81%
	TOTAL OF PART B				711,698.90						1.50%
PART C	Earthworks										
104(2)a	Embankment from Borrow	1,574.00		cu.m.	915,269.63		581.49		732.68		1.92%
	TOTAL OF PART C				915,269.63						1.92%
PART D	Subbase and Base Course										
200(1)	Aggregate Subbase Course	701.00		cu.m.	664,167.90		947.46		1,193.80		1.40%
	TOTAL OF PART D				664,167.90						1.40%
PART G	Drainage and Slope Protection Structures										
404(1)a	Reinforcing Steel, Grade 40	21,654.00		kg.	1,032,997.30		47.70		60.11		2.17%
404(1)b	Reinforcing Steel, Grade 60	7,210.00		kg.	359,091.80		49.80		60.11		0.75%
405(1)b3	Structural Concrete, Class "A"	909.00		cu.m.	6,755,572.63		7,431.87		9,364.16		14.20%
508(1)	Hand Laid Rock Embankment	5,739.00		cu.m.	8,122,308.56		1,415.28		1,783.26		17.07%
	TOTAL OF PART G				16,269,970.29						34.20%
PART H	Miscellaneous Structure										
715(1)	Geotextile	1,131.00		sq.m.	200,025.37		176.86		222.84		0.42%
	TOTAL OF PART H				200,025.37						0.42%

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 I	Bank and Slope Protection										
1716(6)	Structural Steel Sheet Piles, furnished	5,711.00		ln.m.	14,212,404.86		2,488.60		3,135.64		29.88%
1716(12)	Structural Steel Sheet Piles, driven	5,711.00		ln.m.	5,616,587.33		983.47		1,239.17		11.81%
1716(16)	Structural Steel Sheet Test Piles, furnished and driven	9.00		ln.m.	30,451.21		3,383.47		4,263.17		0.06%
1710(2)a	Grouted Riprap, Class "A"	1,131.00		cu.m.	4,065,925.86		3,594.98		4,529.68		8.55%
	TOTAL OF PART I				23,925,369.27						50.29%
PART J	Flood and Control Structure										
1701(1)	Unsuitable Excavation	3,099.00		cu.m.	741,956.69		239.42		301.67		1.56%
1704(2)a	Embankment (Selected Borrow)	3,986.00		cu.m.	2,985,485.20		748.99		943.73		6.28%
	TOTAL OF PART J				3,727,441.89						7.84%
	GRAND TOTAL				47,570,980.09						100.00%

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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			
2	Bulldozer		2	27			
3	Backhoe	0.83 cu.m/1.04 cu. Yd	3	28			
4	Road Grader		2	29			
5	Road Roller	10 mt	2	30			
6	Payloader	1.50 cu.m/1.95 cu.yd	4	31			
7	Water Truck/Pump	16000L	2	32			
8	Water Tank		2	33			
9	Welding Machine	500A	1	34			
10	Cutting Outfit		2	35			
11	Concrete Vibrator		2	36			
12	Cargo Truck	9 - 10 mt	1	37			
13	Bar Cutter		1	38			
14	Bar Bender		1	39			
15	One Bagger Mixer	4-6 cu.ft/min	2	40			
16	Truck Mounted Crane		1	41			
17	Vibro Hammer	272.22 hp	1	42			
18	Generator Set	7000 kW	1	43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			
	SUB-TOTAL		40		SUB-TOTAL		0
TOTAL							40

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												
715(1)	Geotextile	AS EVALUATED											
		AS SUBMITTED	0.42%	1,131.00	sq.m.	190,008.00	3,163.51	6,853.86	200,025.37	20.00%	40,005.07	12,001.52	252,031.97
	TOTAL OF PART H	AS EVALUATED											
		AS SUBMITTED	0.42%			190,008.00	3,163.51	6,853.86	200,025.37		40,005.07	12,001.52	252,031.97
PART I	BANK AND SLOPE PROTECTION WORKS												
1716(6)	Structural Steel Sheet Piles, furnished	AS EVALUATED											
		AS SUBMITTED	29.88%	5,711.00	ln.m.	13,980,528.00	22,882.17	208,994.69	14,212,404.86	20.00%	2,842,480.97	852,744.29	17,907,630.13
1716(12)	Structural Steel Sheet Piles, driven	AS EVALUATED											
		AS SUBMITTED	11.81%	5,711.00	ln.m.	471,038.94	401,792.41	4,743,755.99	5,616,587.33	20.00%	1,123,317.47	336,995.24	7,076,900.04
1716(16)	Structural Steel Sheet Test Piles, furnished and driven	AS EVALUATED											
		AS SUBMITTED	0.06%	9.00	ln.m.	22,342.31	633.19	7,475.71	30,451.21	20.00%	6,090.24	1,827.07	38,368.53
1710(2)a	Grouted Riprap, Class "A"	AS EVALUATED											
		AS SUBMITTED	8.55%	1,131.00	cu.m.	3,242,683.96	506,162.09	317,079.81	4,065,925.86	20.00%	813,185.17	243,955.55	5,123,066.58
	TOTAL OF PART I	AS EVALUATED											
		AS SUBMITTED	50.29%			17,716,593.22	931,469.85	5,277,306.20	23,925,369.27		4,785,073.85	1,435,522.16	30,145,965.28
PART J	FLOOD CONTROL AND DRAINAGE												
1701(1)	Unsuitable Excavation	AS EVALUATED											
		AS SUBMITTED	1.56%	3,099.00	cu.m.	-	33,534.28	708,422.41	741,956.69	20.00%	148,391.34	44,517.40	934,865.43
1704(2)a	Embankment (Selected Borrow)	AS EVALUATED											
		AS SUBMITTED	6.28%	3,986.00	cu.m.	2,602,608.88	13,653.15	369,223.18	2,985,485.20	20.00%	597,097.04	179,129.11	3,761,711.35
	TOTAL OF PART J	AS EVALUATED											
		AS SUBMITTED	7.84%			2,602,608.88	47,187.43	1,077,645.59	3,727,441.89		745,488.38	223,646.51	4,696,576.79
	GRAND TOTAL	AS EVALUATED											
		AS SUBMITTED	100.00%			36,537,782.44	3,310,572.64	7,722,625.01	47,570,980.09		9,276,126.27	2,842,355.32	59,689,461.67

W



DPWH REGIONAL OFFICE IX

Construction/Maintenance of Flood Mitigation Structures and Drainage Systems Channelization of Putik River with Major Training Works, 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	1,157,036.83		104,828.07	63,093.24	167,921.31	1,324,958.14
PART B	Other General Requirements	AS EVALUATED						
		AS SUBMITTED	711,698.90		30,849.33	37,127.41	67,976.74	779,675.64
PART C	Earthworks	AS EVALUATED						
		AS SUBMITTED	915,269.63		183,053.93	54,916.18	237,970.10	1,153,239.73
PART D	Subbase and Base Courses	AS EVALUATED						
		AS SUBMITTED	664,167.90		132,833.58	39,850.07	172,683.65	836,851.55
PART G	Drainage and Slope Protection Structures	AS EVALUATED						
		AS SUBMITTED	16,269,970.29		3,253,994.06	976,198.22	4,230,192.28	20,500,162.57
PART H	Miscellaneous Structure	AS EVALUATED						
		AS SUBMITTED	200,025.37		40,005.07	12,001.52	52,006.60	252,031.97
PART I	Bank and Slope Protection	AS EVALUATED						
		AS SUBMITTED	23,925,369.27		4,785,073.85	1,435,522.16	6,220,596.01	30,145,965.28
PART J	Flood Control and Drainage	AS EVALUATED						
		AS SUBMITTED	3,727,441.89		745,488.38	223,646.51	969,134.89	4,696,576.79
TOTAL		AS EVALUATED						
		AS SUBMITTED	47,570,980.09		9,276,126.27	2,842,355.32	12,118,481.59	59,689,461.67

Preparation and Submission:

Prepared by:


ELWICK P. ACUÑA

Engineer II

Maintenance Division

Checked/Submitted by:


ISIDRA A. ESTANISLAO

Engineer IV

Maintenance Division

Evaluation:

Reviewed by:


SATURNINO C. TORRE FRANCA

District Engineer

Planning & Design Division

Approval:

Recommending Approval


KHADAFFY B. TANGGOL
Assistant Regional Director

Approved:


CAYAMBABAO D. DZA
Regional Director

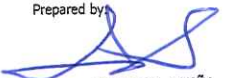


ITEM NO.	DESCRIPTION		QTY	UNIT	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
						%	VALUE				
PART A	Facilities for the Engineers										
A.1.1(3)	Construction of Field Office for the Engineer	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	405,271.00	20.00%	81,054.20	24,316.26	105,370.46	510,641.46	510,641.46
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.	297,173.33	8.00%	23,773.87	16,047.36	39,821.23	336,994.56	336,994.56
A.1.2(5)	Operation and Maintenance of 4 x 4 Pick-Up Type Service Vehicle for the Engineer	AS EVALUATED									
		AS SUBMITTED	8.33	month	454,592.50	0.00%	-	22,729.63	22,729.63	477,322.13	57,278.66
	TOTAL OF PART A	AS EVALUATED									
		AS SUBMITTED			1,157,036.83		104,828.07	63,093.24	167,921.31	1,324,958.14	
PART B	Other General Requirements										
B.4(1)	Construction Survey & Staking	AS EVALUATED									
		AS SUBMITTED	0.51	km.	21,937.19	20.00%	4,387.44	1,316.23	5,703.67	27,640.86	54,449.73
B.5	Project Billboard/Signboard	AS EVALUATED									
		AS SUBMITTED	4.00	each	18,337.96	20.00%	3,667.59	1,100.28	4,767.87	23,105.83	5,776.46
B.7	Occupation Safety & Health	AS EVALUATED									
		AS SUBMITTED	8.33	month	284,928.75	8.00%	22,794.30	15,386.15	38,180.45	323,109.20	38,773.10
B.9	Mobilization & Demobilization	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	386,495.00	0.00%	-	19,324.75	19,324.75	405,819.75	405,819.75
	TOTAL OF PART B	AS EVALUATED									
		AS SUBMITTED			711,698.90		30,849.33	37,127.41	67,976.74	779,675.64	
PART C	Earthworks										
101(1)	Removal of Structure/Obstructions	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	-	20.00%	-	-	-	-	-
104(2)a	Embankment from Borrow	AS EVALUATED									
		AS SUBMITTED	1,574.00	cu.m.	915,269.63	20.00%	183,053.93	54,916.18	237,970.10	1,153,239.73	732.68
	TOTAL OF PART C	AS EVALUATED									
		AS SUBMITTED			915,269.63		183,053.93	54,916.18	237,970.10	1,153,239.73	
PART D	Subbase and Base Course										
200(1)	Aggregate Subbase Course	AS EVALUATED									
		AS SUBMITTED	701.00	cu.m.	664,167.90	20.00%	132,833.58	39,850.07	172,683.65	836,851.55	1,193.80
	TOTAL OF PART D	AS EVALUATED									
		AS SUBMITTED			664,167.90		132,833.58	39,850.07	172,683.65	836,851.55	
PART G	Drainage and Slope Protection Structures										
404(1)a	Reinforcing Steel, Grade 40	AS EVALUATED									
		AS SUBMITTED	21,654.00	kg.	1,032,997.30	20.00%	206,599.46	61,979.84	268,579.30	1,301,576.60	60.11
404(1)b	Reinforcing Steel, Grade 60	AS EVALUATED									
		AS SUBMITTED	7,210.00	kg.	359,091.80	20.00%	71,818.36	21,545.51	93,363.87	452,455.66	62.75
405(1)b3	Structural Concrete, Class "A"	AS EVALUATED									
		AS SUBMITTED	909.00	cu.m.	6,755,572.63	20.00%	1,351,114.53	405,334.36	1,756,448.88	8,512,021.51	9,364.16
508(1)	Hand Laid Rock Embankment	AS EVALUATED									
		AS SUBMITTED	5,739.00	cu.m.	8,122,308.56	20.00%	1,624,461.71	487,338.51	2,111,800.23	10,234,108.79	1,783.26
	TOTAL OF PART G	AS EVALUATED									
		AS SUBMITTED			16,269,970.29		3,253,994.06	976,198.22	4,230,192.28	20,500,162.57	

ITEM NO.	DESCRIPTION	QTY	UNIT	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					%	VALUE				
PART H	Miscellaneous Structure									
715(1)	Geotextile									
	AS EVALUATED									
	AS SUBMITTED	1,131.00	sq.m.	200,025.37	20.00%	40,005.07	12,001.52	52,006.60	252,031.97	222.84
	TOTAL OF PART H									
	AS EVALUATED									
	AS SUBMITTED			200,025.37		40,005.07	12,001.52	52,006.60	252,031.97	
PART I	BANK AND SLOPE PROTECTION WORKS									
1716(6)	Structural Steel Sheet Piles, furnished									
	AS EVALUATED									
	AS SUBMITTED	5,711.00	ln.m.	14,212,404.86	20.00%	2,842,480.97	852,744.29	3,695,225.26	17,907,630.13	3,135.64
1716(12)	Structural Steel Sheet Piles, driven									
	AS EVALUATED									
	AS SUBMITTED	5,711.00	ln.m.	5,616,587.33	20.00%	1,123,317.47	336,995.24	1,460,312.71	7,076,900.04	1,239.17
1716(16)	Structural Steel Sheet Test Piles, furnished and driven									
	AS EVALUATED									
	AS SUBMITTED	9.00	ln.m.	30,451.21	20.00%	6,090.24	1,827.07	7,917.32	38,368.53	4,263.17
1710(2)a	Grouted Riprap, Class "A"									
	AS EVALUATED									
	AS SUBMITTED	1,131.00	cu.m.	4,065,925.86	20.00%	813,185.17	243,955.55	1,057,140.72	5,123,066.58	4,529.68
	TOTAL OF PART I									
	AS EVALUATED									
	AS SUBMITTED			23,925,369.27		4,785,073.85	1,435,522.16	6,220,596.01	30,145,965.28	
PART J	FLOOD CONTROL AND DRAINAGE									
1701(1)	Unsuitable Excavation									
	AS EVALUATED									
	AS SUBMITTED	3,099.00	cu.m.	741,956.69	20.00%	148,391.34	44,517.40	192,908.74	934,865.43	301.67
1704(2)a	Embankment (Selected Borrow)									
	AS EVALUATED									
	AS SUBMITTED	3,986.00	cu.m.	2,985,485.20	20.00%	597,097.04	179,129.11	776,226.15	3,761,711.35	943.73
	TOTAL OF PART J									
	AS EVALUATED									
	AS SUBMITTED			3,727,441.89		745,488.38	223,646.51	969,134.89	4,696,576.79	
	GRAND TOTAL									
	AS EVALUATED									
	AS SUBMITTED			47,570,980.09		9,276,126.27	2,842,355.32	12,118,481.59	59,689,461.67	

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

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
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				
Sub-Total for A-2 As Evaluated				
Equipment				
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				
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.)
I Earthworks (Excavation, Embankment & Bedd)				
a. Gravel Bedding	cu.m.	3.50	1,260.35	4,411.23
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	301.00	27,090.00
b. Crushed Gravel	cu.m.	21.00	1,260.35	26,467.35
c. Washed Sand	cu.m.	18.00	1,460.35	26,286.30
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	301.00	13,545.00
c. Washed Sand	cu.m.	8.00	1,460.35	11,682.80
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	1,755.26	3,510.52
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

4

VII Steel Works						
a.	65 mm. x 65 mm. x 6 mm. Angle	kg.	350.00	48.00	16,800.00	
b.	50 mm. x 50 mm. x 6 mm. Angle Bar	kg.	250.00	48.00	12,000.00	
c.	50 mm. x 50 mm. x 4 mm. Angle Bar	kg.	100.00	48.00	4,800.00	
d.	Pullins 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.	Teckcrew 11/2"	pc.	1000.00	2.00	2,000.00	
e.	Roof Sealant	L	2.00	250.00	500.00	
IX Carpentry Works						
a.	Rough Lumber, sun dried tangule	bdl.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					327,885.70	
Equipment						
F.2						
Sub-Total for F-2 As Evaluated						
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				405,271.00	
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated					
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				48,632.52	
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated					
I.1	Contractor's Profit - As Submitted				32,421.68	
I.2	Contractor's Profit - As Evaluated					
J.1	Value Added Tax - As Submitted				24,316.26	
J.2	Value Added Tax - As Evaluated					
K.1	Total Unit Cost - As Submitted				510,641.46	
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.1.1(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				
Equipment	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Sub-Total for B-1 As Submitted				-
B.2				
Equipment				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				-
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				-
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				-
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
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.	8.33	3,000.00	25,000.00
b. Water Bill	mo.	8.33	1,500.00	12,500.00
c. LPG (11 kg)	mo.	8.33	1,000.00	8,333.33
Sub-Total for F-1 As Submitted				297,173.33
Equipment				
Sub-Total for F-2 As Evaluated				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				297,173.33
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				-
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				23,773.87
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				16,047.36
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				336,994.56
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 : 8.33 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	2,000.00	58.61	117,217.50
Sub-Total for A-1 As Submitted				117,217.50
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				117,217.50
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	7,500.00	31.00	232,500.00
b. Spare Parts	L.S.	1.00	40,000.00	40,000.00
c. Engine Oil & Lubricants	L.S.	1.00	34,875.00	34,875.00
d. Miscellaneous	L.S.	1.00	30,000.00	30,000.00
Sub-Total for F-1 As Submitted				337,375.00
Equipment				
F.2 Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				337,375.00
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				16,868.75
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				354,243.75
K.2 Total Unit Cost - As Evaluated				-


Prepared by: 
ELWICK P. ACUÑA
Engineer II

Checked/Reviewed 
ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : B.4(1)
Construction Survey & Staking
Unit of Measurement : 0.51 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				
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. 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				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				43,214.07
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				5,185.69
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				3,457.13
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				2,592.84
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				54,449.73
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:


ELWICK P. ACUÑA
Engineer II

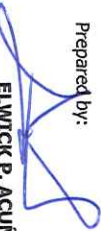
Checked/Reviewed


ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : B.5
Unit of Measurement : Project Billboard/Signboard
Output per hour-As Submitted : 4.00 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				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1				
Equipment				
Sub-Total for B-1 As Submitted				-
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				3,677.96
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				-
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				-
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Ordinary Plywood 1/2" thk. x 4' x 8'	pc.	4.00	750.00	3,000.00
b. Tarpaulin (4' x 8')	pc.	4.00	1,000.00	4,000.00
c. Assorted Lumber	bd.ft.	200.00	37.00	7,400.00
d. Assorted CW Nails	kg.	4.00	65.00	260.00
Sub-Total for F-1 As Submitted				14,660.00
Equipment				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				14,660.00
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				1,759.20
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				1,172.80
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				879.60
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				18,471.60
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

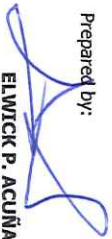

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed


ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : B.7
Occupation Safety & Health
Unit of Measurement : 8.33 month
Output per hour-As Submitted :
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1 Labor				
a. Safety Practitioner	1	1000.00	80.95	80,951.25
b. First Aider	1	2000.00	58.61	117,217.50
Sub-Total for A-1 As Submitted				198,168.75
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. 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				258,168.75
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				258,168.75
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1 Materials				
a. Rubber Boots (Long w/ Steel Toe, Black)	pair	24.00	400.00	9,600.00
b. Working Gloves (Maong 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				284,928.75
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				22,794.30
I.2 Contractor's Profit - As Evaluated				
J.1 Value Added Tax - As Submitted				15,386.15
J.2 Value Added Tax - As Evaluated				
K.1 Total Unit Cost - As Submitted				323,109.20
K.2 Total Unit Cost - As Evaluated				


Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

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

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
Sub-Total for A-1 As Submitted				-
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	40	4,255.38	170,215.00
b. Water Truck	1	40	2,450.00	98,000.00
c. Backhoe	2	40	1,537.00	61,480.00
d. Dump Truck	4	40	1,420.00	56,800.00
B.1				
Sub-Total for B-1 As Submitted				386,495.00
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				386,495.00
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				386,495.00
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				386,495.00
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				46,379.40
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				30,919.60
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				23,189.70
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				486,983.70
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
Embankment from Borrow
Unit of Measurement : 1,574.00 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), 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				69.78
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				34.89
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				732.68
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

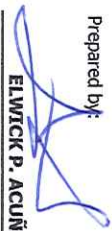
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ELWICK P. ACUÑA
Engineer II


ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 200(1)
Aggregate Subbase Course
Unit of Measurement : 701.00 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.1 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.)
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.)
F.1 Materials				
a. Aggregate Subbase Course (with 15% wastage factor)	cu.m.	1.15	740.35	851.40
Sub-Total for F-1 As Submitted				851.40
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				947.46
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				113.69
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				75.80
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				56.85
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				1,193.80
K.2 Total Unit Cost - As Evaluated				-


Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 404(1)a
Unit of Measurement : Reinforcing Steel, Grade 40
Output per hour-As Submitted : 21,654.00 Kg.
Output per hour-As Evaluated : 180.00

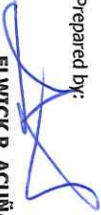
Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
A.1				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	2	1	58.61	117.22
b. Unskilled Laborer	8	1	45.16	361.25
Sub-Total for A-1 As Submitted				559.42
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
B.1				
a. Bar Cutter	1	0.5	219.75	109.88
b. Bar Bender	1	0.5	351.50	175.75
c. Cargo Truck (9 - 10 mt)	1	0.15	1,212.00	181.80
Sub-Total for B-1 As Submitted				467.43
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				1,026.84
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				180.00
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				5.70
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Tie Wire (2% of RSB)	kg.	0.02	100.00	2.10
b. Reinforcing Steel Bar (with 5% wastage)	kg.	1.05	38.00	39.90
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				47.70
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				5.72
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				3.82
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				2.86
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				60.11
K.2				
Total Unit Cost - As Evaluated				-

Prepared by: 
ELWICK P. ACUÑA
Engineer II

Checked/Reviewed: 
ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 404(1)b
Reinforcing Steel, Grade 60
Unit of Measurement : 7,210.00 kg.
Output per hour-As Submitted : 180.00
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1				
Labor				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	2	1	58.61	117.22
b. Unskilled Laborer	8	1	45.16	361.25
Sub-Total for A-1 As Submitted				559.42
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Bar Cutter	1	0.5	219.75	109.88
b. Bar Bender	1	0.5	351.50	175.75
c. Cargo Truck (9 - 10 mt)	1	0.15	1,212.00	181.80
Sub-Total for B-1 As Submitted				467.43
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				1,026.84
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				5.70
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. Tie Wire (2% of RSB)	kg.	0.02	100.00	2.10
b. Reinforcing Steel Bar (with 5% wastage)	kg.	1.05	40.00	42.00
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				49.80
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				5.98
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				3.98
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				2.99
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				62.75
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

ELWICK P. ACUÑA
Engineer II

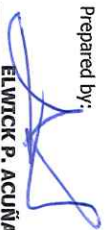
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ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 405(1)b3
Unit of Measurement : Structural Concrete, Class "A"
Output per hour-As Submitted : 909.00 cu.m.
Output per hour-As Evaluated : 1.40

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. Skilled Laborer	4	1	58.61	234.44
b. Unskilled Laborer	8	1	45.16	361.25
Sub-Total for A-1 As Submitted				1,272.32
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. 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
Minor Tools 5% of Labor				63.62
Sub-Total for B-1 As Submitted				756.07
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				2,028.39
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				1,448.85
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Lumber, Good - 4 uses	bd.ft.	70.00	37.00	647.50
b. Marine Plywood (1/2" x 4' x 8') - 4 uses	pc.	1.60	1,100.00	440.00
c. Assorted CMN	kg.	0.70	65.00	45.50
d. Cement	bag	9.50	301.00	2,859.50
e. Sand	cu.m.	0.50	1,460.35	730.18
f. Gravel	cu.m.	1.00	1,260.35	1,260.35
g. Asphalt Sealant	cu.m.			-
Sub-Total for F-1 As Submitted				5,983.03
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				7,431.87
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				891.82
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit - As Submitted				594.55
I.2 Contractor's Profit - As Evaluated				-
J.1 Value Added Tax - As Submitted				445.91
J.2 Value Added Tax - As Evaluated				-
K.1 Total Unit Cost - As Submitted				9,364.16
K.2 Total Unit Cost - As Evaluated				-

Prepared by:


ELWICK P. ACUÑA

Engineer II

Checked/Reviewed


ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : 508(1)
 Hand Laid Rock Embankment
 Unit of Measurement : 5,739.00 cu.m.
 Output per hour-As Submitted : 3.125
 Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
A.1				
a. Foreman	1	1	80.95	80.95
b. Skilled Laborer	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				
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				196.92
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. Boulder	cu.m.	1.05	1,160.35	1,218.37
Sub-Total for F-1 As Submitted				1,218.37
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				1,415.28
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				169.83
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				113.22
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				84.92
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				1,783.26
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed

ELWICK P. ACUÑA


Engineer II

ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : 715(1)
Geotextile
Unit of Measurement : 1,131.00 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.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				
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				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				1,771.42
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				200.00
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				8.86
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Filter Cloth	sq.m.	1.05	160.00	168.00
Sub-Total for F-1 As Submitted				168.00
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				176.86
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				21.22
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				14.15
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				10.61
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				222.84
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

ELWICK P. ACUÑA
Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description	1716(6)
Unit of Measurement	Structural Steel Sheet Piles, furnished
Output per hour-As Submitted	5,711.00 In.m.
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
A.1	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				
	Labor				288.48
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 (41 - 45 m)	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				
F.1	a. Steel Sheet Pile KSP II (delivered at site)	kg.	48.00	50.00	2,400.00
	Miscellaneous 2% of Materials Cost				48.00
	Sub-Total for F-1 As Submitted				2,448.00
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				2,488.60
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				298.63
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1	Contractor's Profit - As Submitted				199.09
I.2	Contractor's Profit - As Evaluated				-
J.1	Value Added Tax - As Submitted				149.32
J.2	Value Added Tax - As Evaluated				-
K.1	Total Unit Cost - As Submitted				3,135.64
K.2	Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed

ELWICK P. ACUÑA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description	1716(12)
Unit of Measurement	Structural Steel Sheet Piles, driven
Output per hour-As Submitted	5,711.00 ln.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
A.1	b. Skilled Laborer	6	1	58.61	351.65
	b. Unskilled Laborer	6	1	45.16	270.94
	Sub-Total for A-1 As Submitted				703.54
	Labor				
A.2					
	Sub-Total for A-2 As Evaluated				
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
	Equipment				
	a. Truck Mounted Crane (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 10% of Labor Cost			70.35	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				
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				900.99
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
	Materials				
	a. Welding Rod (1 kg./2000 kg. Steel)	kg.	0.024	163.00	3.91
	b. Oxy/Acetylene (1 set/5000 kg. Steel)	set	0.0096	2,500.00	24.00
F.1	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 2% of Material Cost				1.62
	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				118.02
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				59.01
J.2	Value Added Tax - As Evaluated				-
K.1	Total Unit Cost - As Submitted				1,239.17
K.2	Total Unit Cost - As Evaluated				-

Checked/Reviewed

Engineer II

Engineer IV

9.00 ln.m.
10.00

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor					
a. Foreman		1	1	80.95	80.95
b. Skilled Laborer		6	1	58.61	351.65
b. Unskilled Laborer		6	1	45.16	270.94
Sub-Total for A-1 As Submitted					703.54
Labor					
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. Truck Mounted Crane (41 - 45 mt)		1	1	2,606.00	2,606.00
b. Vibro Hammer (272.22 hp)		1	1	3,069.00	3,069.00
c. Generator Set (700 kW)		1	1	2,147.27	2,147.27
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 10% of Labor Cost				70.35	70.35
Sub-Total for B-1 As Submitted					8,306.35
Equipment					
B.2					
Sub-Total for B-2 As Evaluated					
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					
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted					900.99
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
b. Welding Rod (1 kg./2000 kg. Steel)		kg.	0.024	163.00	3.91
c. Oxy/Acetylene (1 set/5000 kg. Steel)		set	0.0096	2,500.00	24.00
d. Coco Log - 2 uses		m.	0.18	350.00	31.50
e. Coco Lumber		bd.ft.	1.55	13.00	20.15
f. Assorted CWN (1 kg./100 bd.ft. Of Lumber)		kg.	0.02	65.00	1.30
Miscellaneous 2% of Material Cost					1.62
Sub-Total for F-1 As Submitted					2,482.48
Materials					
F.2					
Sub-Total for F-2 As Evaluated					
G.1 Direct Unit Cost (E.1+F.1) - As Submitted					3,383.47
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated					-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted					406.02
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated					-
I.1 Contractor's Profit - As Submitted					270.68
I.2 Contractor's Profit - As Evaluated					-
J.1 Value Added Tax - As Submitted					203.01
J.2 Value Added Tax - As Evaluated					-
K.1 Total Unit Cost - As Submitted					4,263.17
K.2 Total Unit Cost - As Evaluated					-

Engineer IV

1710(2)a
Grouted Riprap, Class "A"
1,131.00 cu.m.
1.25

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
	Labor				
	a. Foreman	1	1	80.95	80.95
A.1	b. Skilled Laborer	2	1	58.61	117.22
	c. Unskilled Laborer	8	1	45.16	361.25
	Sub-Total for A-1 As Submitted				
	Labor				559.42
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	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.)
	Materials				
	a. Cement	bag	3.00	301.00	903.00
	b. Sand	cu.m.	0.25	1,460.35	365.09
	c. Gravel	cu.m.	0.15	1,260.35	189.05
F.1	d. Weep Holes (PVC)	m.	0.30	536.00	160.80
	e. Filter Cloth	sq.m.	0.015	160.00	2.40
	f. Boulder	cu.m.	1.05	1,160.35	1,218.37
	Miscellaneous 1% of Material Cost				28.39
	Sub-Total for F-1 As Submitted				2,867.09
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				3,594.98
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				431.40
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1	Contractor's Profit - As Submitted				287.60
I.2	Contractor's Profit - As Evaluated				-
J.1	Value Added Tax - As Submitted				215.70
J.2	Value Added Tax - As Evaluated				-
K.1	Total Unit Cost - As Submitted				4,529.68
K.2	Total Unit Cost - As Evaluated				-

ELWICK P. ACUÑA

Engineer II

ISIDRA A. ESTANISLAO

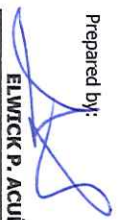
Engineer IV

Item No./Description : 1,701(1)
Unit of Measurement : Unsuitable Excavation
Output per hour-As Submitted : 3,099.00 cu.m.
Output per hour-As Evaluated : 20.00

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
A.1				
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				
A.2				
Sub-Total for A-2 As Evaluated				
Equipment				
B.1				
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				239.42
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				-
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				28.73
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				14.37
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				301.67
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed


ELWICK P. ACUÑA
Engineer II


ISIDRA A. ESTANISLAO
Engineer IV

Item No./Description : 1704(2)a
Embankment (Selected Borrow)
Unit of Measurement : 3,986.00 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.)
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				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
B.1				
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. Selected Borrow	cu.m.	1.25	522.35	652.94
(With 25% wastage factor)				
Sub-Total for F-1 As Submitted				652.94
Materials				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				748.99
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				89.88
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1				
Contractor's Profit - As Submitted				59.92
I.2				
Contractor's Profit - As Evaluated				-
J.1				
Value Added Tax - As Submitted				44.94
J.2				
Value Added Tax - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				943.73
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed

ELWICK P. ACUÑA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV

Name of Project : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems Channelization of Putik River with Major Training Works, Zamboanga City

[illegible]

Prepared by:

ELWICK P. ACUÑA
Engineer II

Submitted by:

SATURNINO C. TORREFRANCA
Chief, Planning and Design Division

CAYAMOMBAO D. DIA
Regional Director

UNIT COST ANALYSIS FOR HAULING COST FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

DESCRIPTION	QUANTITY (bags)
Construction of Field Office for the Engineer	135.00
Structural Concrete, Class "A"	8,635.50
Grouted Riprap, Class "A"	3,393.00
T O T A L	12,163.50

Quantity = **12,163.50** Bags

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga City DEO	5.00
Batching plant	

*Average hauling distance from source to assumed Stockpiling area :

say 5.00 km.

$$\text{Delivery Charge} = P \quad 0.120 \quad \times \quad 5.00 \\ = P \quad \mathbf{0.60} \quad / \text{ bag}$$

*Delivery Truck : 12,163.50 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	=	$\frac{5.00}{30.00} \times 60$	= 10.00 mins.
Unloaded running	=	$\frac{5.00}{40.00} \times 60$	= 7.50 mins.
Loading and Unloading allowance for delay/traffic	:	45.00 mins. 3.00 mins. 8.00 cum.	
Capacity of Dumptruck	:	500.00 bags	
Total Cycle time	:	65.50 mins.	
No. of trips for Dumptruck per day	=	$\frac{8.0}{65.50} \times 60.00$	= 7.33 say 7.33 trip
Dumptruck daily output	=	500 x 7.33	= 3,664.12 cum.
Using (3) Dumptrucks	=	3 x 3664.12	= 10,992.37 cum.

- No. of days for Delivery Truck = $\frac{12,163.50}{10,992.37}$ = 1.11 say 1.11 days
- No. of days for Labor, for unloading = complimentary to D. Truck days = 1.11 days

DELIVERY COST :

12,163.50 - Bags, Portland Cement	@ P 0.60	/ bag	= P
Sub - Total			7,298.10

LABOR :			
1 - Foreman	@ P	611.92 /day	x 1.11 days = P 677.11
10 - Laborers, unloading	@ P	342.24 /day	x 1.11 days = P 3,787.02
Sub - Total			4,464.14

MATERIALS :

12,163.50 - Bags, Portland Cement	@ P 300.00	/ bag	= P
Sub - Total			3,649,050.00

Estimated Quantity	12,163.50 Bags
Unit Cost	P 300.97 / Bag, say P 301.00 / Bag
Grand Total	P 3,660,812.24
Delivery Cost	P 7,298.10
Labor	P 4,464.14
Materials	P 3,649,050.00

UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

Hauling Cost from the Quarry to Batchng 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/m³

Unit weight of Coarse Aggregates : 1,534.00 kg/m³

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	$= \frac{5.00}{30.00} \times \frac{60}{60}$	= 10.00 mins.
Unloaded running	$= \frac{5.00}{40.00} \times \frac{60}{60}$	= 7.50 mins.
loading and Unloading allowance for delay/traffic	: 5.00 mins.	
Capacity of Dumptruck	: 10.00 cu.m.	
Total Cycle time	: 25.50 mins.	
No. of tips for Dumptruck per day	$= \frac{8}{25.50} \times \frac{60.00}{60.00}$	= 18.82 say 18.82 tips
Dumptruck daily output	= 10 x 18.82	= 188.24 cu.m.
Using (5) Dumptrucks	= 5 x 188.24	= 941.18 cu.m.

1. No. of days for Dumptrucks $= \frac{1,000.00}{941.18} = 1.06$ say 1.06 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 cum./km.	Hauling Cost per cu.m.	Unit Price	Unit Cost per cum.
Cost of Fine Aggregates:	5.00 x	12.07 =	60.35 +	1,400.00 =	1,460.35
Cost of Coarse Aggregates:	5.00 x	12.07 =	60.35 +	1,200.00 =	1,260.35
Cost of Item 200 Materials:	5.00 x	12.07 =	60.35 +	680.00 =	740.35
Cost of Item 201 Materials:	5.00 x	12.07 =	60.35 +	680.00 =	740.35
Cost of Item 300 Materials:	5.00 x	12.07 =	60.35 +	698.00 =	758.35
Cost of Boulders:	5.00 x	12.07 =	60.35 +	1,100.00 =	1,160.35
Cost of Embankment, Common Borrow:	5.00 x	12.07 =	60.35 +	328.00 =	388.35
Cost of Embankment, Selected Borrow:	5.00 x	12.07 =	60.35 +	462.00 =	522.35