

Bureau : DPWH
Region : IX
District/City : Zamboanga City

Date : _____

NAME/LOCATION OF PROJECT : CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY EL PARAISO, UILOY, ZAMBOANGA DEL NORTE	Appropriation : P 100,000,000.00 Source of Funds : CY-2018 Issued Obligated Authority : Released : Cal. Days to Complete : 308 Calendar Days Desirable Starting Date : Upon Approval Mode of Implementation :
PROJECT CATEGORY : Bridge and Approaches	
PROJECT DESCRIPTION : Scope of Work : Construction of Bridge and Approaches	NET LENGTH : 0000 + 080.00 - 0000 + 380.00 Abutment - A: 0000 + 192.37 0000 + 253.21 Abutment - B: 0000 + 253.21 0000 + 386.92 Approaches Net length: 326.08 In.m. Bridge Length: 60.84 In.m. Total Length : 0.38692 km.

TECHNICAL PERSONNEL REQUIRED:

MINIMUM EQUIPMENT REQUIREMENT :			TECHNICAL PERSONNEL REQUIRED :		
Description	No.	Description	No.	Description	No.
Dumptruck (10-Wheeler)	12	Water Pump	1	Project Engineer	1
Drop Hammer	4	Cutting Outfit	1	Materials Engineer	1
Crawler Crane	2	Concrete Vibrator	2	Geometric Surveyor	1
Truck mounted Crane	1	Air compressor	2	Foreman	1
Road Grader	2	Bar Cutter	1	Materials Lab. Tech.	1
Road Roller	2	Bar Bender	1	Mason	10
Payloader	4	Conc. Mixer (1-Bagger)	2	Carpenter	6
Water Truck	2	Plate Compactor	1	Laborers (Skilled)	10
Water Tank	2	Jack Hammer	1	Laborers (Unskilled)	20
Backhoe with breaker	1	Diesel Hammer	1	Laborers (Unskilled)	20
Truck Trailer with dolly	1	Service Truck	1		

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART B - OTHER GENERAL REQUIREMENTS						
A.1.1(3)	Construction of Field Office for the Engineer	0.642	L. S.	1.00	505,937.24	505,937.24
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment & Appliances for the Field Office for the Engineer	0.254	L. S.	1.00	200,598.00	200,598.00
A.1.2 (5)	Operation & Maintenance of Go'vt Service Vehicle	0.430	L.S.	1.00	338,820.40	338,820.40
B.4(1)	Bridge Survey and Staking	0.053	k.m.	0.39	41,469.61	107,178.78
B.5	Project Billboard	0.008	units	2.00	6,500.90	3,250.45
B.7	Occupational Safety and Health Program	0.627	L. S.	1.00	494,594.00	494,594.00
B.9	Mobilization & Demobilization	0.691	L. S.	1.00	544,688.00	544,688.00
PART C - EARTHWORKS						
104(1)a	Embankment from Roadway Excavation	0.051	cu.m.	166.00	40,356.96	243.11
104(2)a	Embankment from Borrow	20.596	cu.m.	19,502.00	16,240,507.24	832.76
105(1)a	Subgrade Preparation	0.004	sq.m.	197.00	3,147.76	15.98
PART D - SUBBASE AND BASE COURSE						
200(1)	Aggregate Subbase Course	2.064	cu.m.	1,386.00	1,627,252.21	1,174.06
PART E - SURFACE COURSE						
300(1)	Gravel Surface Course, 0.15m. Thk.	0.273	cu.m.	161.00	215,292.23	1,337.22
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thick	5.262	sq. m.	2,625.00	4,149,530.40	1,580.77
PART F - BRIDGE CONSTRUCTION						
103(1)a	Structure Excavation	0.317	cu.m.	123.00	250,218.12	2,034.29
103(2)a	Bridge Excavation(Common Soil)	0.333	cu.m.	1,137.00	262,430.69	230.81
1716(6)	Structural Steel Sheet Piles, Furnished	8.496	m.	2,076.00	6,699,624.17	3,227.18
1716 (12)	Structural Steel Sheet Piles, Driven	2.089	m.	1,880.00	1,646,950.77	876.04
1300(2)b1	Steel Tubular Piles 450mm dia. x 12mm thk., Supply	9.654	m.	1,104.00	7,612,481.53	6,895.36
1300(2)b2	Steel Tubular Piles 450mm dia. x 12mm thk., Drive	1.549	m.	1,076.40	1,221,753.56	1,135.04
1301(2)c	Steel Tubular Test Piles 450mm dia. x 12mm thk.	0.604	m.	48.00	476,634.30	9,929.88
401(2)a	Concrete Railing	0.462	m.	120.00	364,306.56	3,035.89
403(5)a	Structural Steel, Furnished, Fabricated and Erected, Expansion Dam	0.107	kg.	1,170.00	84,023.90	71.82
403(5)b	Structural Steel, Furnished, Fabricated and Erected Erected, Craneway	3.124	kg.	74,215.00	2,463,127.92	33.19
404(1)a	Reinforcing Steel, (Grade 40)	0.959	kg.	14,201.00	755,794.49	53.22
404(1)b	Reinforcing Steel, (Grade 60)	12.301	kg.	175,354.00	9,699,671.95	55.31
405(1)a3	Structural Concrete, (fc' = 20.68 MPA @ 28th day)	0.260	cu.m.	32.00	205,074.33	6,408.57
405(1)b3	Structural Concrete, Class"A" (fc' = 27.58 Mpa @ 28th day)	11.324	cu.m.	1,330.00	8,929,333.46	6,713.78
407(8)	Lean Concrete	0.147	cu.m.	23.60	115,966.32	4,913.83
412(1)	Elastomeric Bearing Pad	0.164	each	8.00	129,478.26	16,184.78
414	Forms and Falseworks	3.128	L.S.	1.00	2,466,367.79	2,466,367.79
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES						
505(5)	Grouted Riprap, Class "A"	9.802	cu.m.	1,461.00	7,729,328.35	5,290.44
506	Stone Masonry	0.122	cu.m.	24.00	96,358.66	4,014.94
508	Handlaid Rock Embankment	3.440	cu.m.	1,601.00	2,712,215.62	1,694.08
PART H - MISCELLANEOUS STRUCTURES						
603(3)a1	Metal Guardrail (Metal Beam) including Post	0.521	m.	179.00	410,485.67	2,293.22
603(4)a	Metal Beam End Piece	0.015	each	8.00	11,996.22	1,499.53
612(1)	Reflectorized Thermoplastic Pavement Marking (White)	0.100	sq.m.	102.00	78,792.03	772.47
612(1)	Reflectorized Thermoplastic Pavement Marking (Yellow)	0.026	sq.m.	25.00	20,550.57	822.02
TOTAL		100.000			P 78,851,660.21	

NAME OF PROJECT :

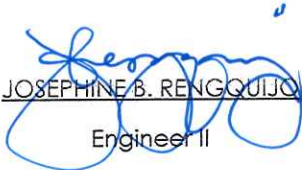
CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING
LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION
OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

0000 + 080.00 - 0000 + 380.00

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Materials	64.05	64,048,731.64
A.2. Labor	3.77	3,769,289.42
A.3. Equipment Expenses	11.03	11,033,639.15
SUB-TOTAL (DIRECT COST)	78.85	P 78,851,660.21
B. INDIRECT COST (Per D.O. # 57)		
B.1. Overhead, Contingency & Misc. (10 % Max. of D.C.)	7.68	7,676,702.26
B.2. Profit (8 % Max. of D.C.)	6.26	6,264,557.78
C. VAT (5 % of D.C. and I.C. Per D.O. # 197 S.2016)	4.64	4,639,646.01
SUBTOTAL (CONTRACT COST)	97.43	P 97,432,566.26
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (2.5%)	2.50	2,500,000.00
2. Detailed Engineering (1%)	0.00	
3. Reserved for the Payment of RROW	0.00	
4. Provisional Sum	0.07	67,433.74
TOTAL ESTIMATED PROJECT COST	100.00	P 100,000,000.00

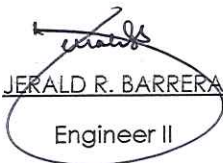
Prepared :

Checked :



JOSEPHINE B. RENGQUIJO

Engineer II



JERALD R. BARRERA

Engineer II

Submitted :

Recommending Approval:



LEONCIO B. SOLAMILLO

Chief, Construction Division



CAYAMOMBAO D. DIA

Assistant Regional Director

Approved:



JORGE U. SEBASTIAN

Regional Director

APPROVED BUDGET FOR THE CONTRACT

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PATAISO, LILOY, ZAMBOANGA DEL NORTE

Project Name and Location

Stations : 0000 + 380.00 - 0000 + 380.00

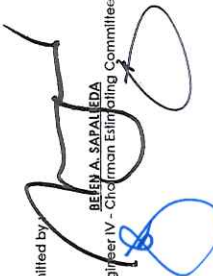
Length : 0.38492

Contract Duration : 303 Calendar Days

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT			TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
PART B - OTHER GENERAL REQUIREMENTS													
A.1.1(3)	Construction of Field Office for the Engineer	1.00	L.S.	505,937.24		8.00	8.00	40,474.98		27,320.61	67,795.59	573,732.83	573,732.83
A.1.1(11)	Provision of Furniture/Fixtures, Equipment & Appliances for the Field Office for the Engineer	1.00	L.S.	200,598.00		8.00	8.00	16,047.84		10,832.29	26,880.13	227,478.13	227,478.13
A.1.2(5)	Operation & Maintenance of Govt Service Vehicle	1.00	L.S.	338,820.40		8.00	8.00	27,105.63		18,296.30	45,401.93	384,222.33	384,222.33
B.4(1)	Bridge Survey and Staking	1.00	L.S.	41,489.61	10.00	8.00	18.00	7,464.53		2,446.71	9,911.24	51,380.85	51,380.85
B.5	Project Billboard	2.00	units	6,500.90	10.00	8.00	18.00	1,170.16		383.55	1,553.72	8,054.62	4,027.31
B.7	Occupational Safety and Health Program	1.00	L.S.	494,594.00		8.00	8.00	39,567.52		26,708.08	66,275.60	560,869.60	560,869.60
B.9	Mobilization & Demobilization	1.00	L.S.	544,688.00			0.00	-		27,234.40	27,234.40	571,922.40	571,922.40
PART C - EARTHWORKS													
104(1)a	Embankment from Roadway Excavation	166.00	cum.	40,356.96	10.00	8.00	18.00	7,264.25		2,381.06	9,645.31	50,002.28	301.22
104(2)a	Embankment from Borrow	19,502.00	cum.	16,240,507.24	10.00	8.00	18.00	2,923,291.30		958,189.93	3,881,481.23	20,121,988.47	1,031.79
105(1)a	Subgrade Preparation	197.00	sq.m.	3,147.76	10.00	8.00	18.00	566.60		185.72	752.32	3,900.08	19.80
PART D - SUBBASE AND BASE COURSE													
200(1)	Aggregate Subbase Course	1,386.00	cum.	1,627,252.21	10.00	8.00	18.00	292,905.40		96,007.88	388,913.28	2,016,165.48	1,454.66
PART E - SURFACE COURSES													
300(1)	Gravel Surface Course, 0.15m. Thk.	161.00	cum.	215,292.23	10.00	8.00	18.00	38,752.60		12,702.24	51,454.84	266,747.07	1,656.81
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. Thick	2,625.00	sq. m.	4,149,530.40	10.00	8.00	18.00	746,915.47		244,822.29	991,737.77	5,141,268.16	1,958.58
PART F - BRIDGE CONSTRUCTION													
103(1)a	Structure Excavation	123.00	cum.	250,216.12	10.00	8.00	18.00	45,039.26		14,762.87	59,802.13	310,020.26	2,520.49
103(2)a	Bridge Excavation(Common Soil)	1,137.00	cum.	262,430.69	10.00	8.00	18.00	47,237.52		15,483.41	62,720.93	325,151.62	285.97
1716(6)	Structural Steel Sheet Piles, Furnished	2,076.00	m.	6,699,624.17	10.00	8.00	18.00	1,205,922.35		395,277.83	1,601,210.18	8,300,834.34	3,998.48
1716(12)	Structural Steel Sheet Piles, Driven	1,880.00	m.	1,646,950.77	10.00	8.00	18.00	296,451.14		97,170.10	393,621.23	2,040,572.00	1,085.41
1300(2)b1	Steel Tubular Piles 450mm dia. x 12m m lth., Supply	1,104.00	m.	7,612,481.53	10.00	8.00	18.00	1,370,246.68		449,136.41	1,819,383.09	9,431,864.61	8,543.36
1300(2)b2	Steel Tubular Piles 450mm dia. x 12m m lth., Drive	1,074.40	m.	1,221,753.56	10.00	8.00	18.00	219,915.64		72,083.46	291,999.10	1,513,752.67	1,406.31
1301(2)c	Steel Tubular Test Piles 450mm dia. x 12mm lth.	48.00	m.	476,634.30	10.00	8.00	18.00	85,794.17		28,121.42	113,915.60	590,549.90	12,303.12
401(2)a	Concrete Rolling	120.00	m.	364,306.56	10.00	8.00	18.00	65,575.18		21,494.09	87,069.27	451,375.83	3,761.47
403(5)a	Structural Steel, Furnished, Fabricated and Erected, Expansion Dam	1,170.00	kg.	84,023.90	10.00	8.00	18.00	15,124.30		4,957.41	20,081.71	104,105.62	88.98
403(5)b	Structural Steel, Furnished, Fabricated and Erected, Craneway	74,215.00	kg.	2,463,127.92	10.00	8.00	18.00	443,363.03		145,324.55	588,687.57	3,051,815.50	41.12
404(1)a	Reinforcing Steel, (Grade 40)	14,201.00	kg.	755,794.49	10.00	8.00	18.00	136,043.01		44,591.88	180,634.88	936,429.38	65.94
404(1)b	Reinforcing Steel, (Grade 60)	175,354.00	kg.	9,699,671.95	10.00	8.00	18.00	1,745,940.95		572,280.65	2,318,221.60	12,017,893.55	68.54
405(1)a3	Structural Concrete, (fc = 20.68 MPA @ 28th day)	32.00	cum.	205,074.33	10.00	8.00	18.00	36,913.38		12,099.39	49,012.77	254,087.10	7,940.22
405(1)b3	Structural Concrete, Class"A" (fc = 27.58 Mpa @ 28th day)	1,330.00	cum.	8,929,333.46	10.00	8.00	18.00	1,607,280.02		526,830.67	2,134,110.70	11,063,444.16	8,318.38
407(8)	Lean Concrete	23.60	cum.	115,966.32	10.00	8.00	18.00	20,873.94		6,842.01	27,715.95	143,682.27	6,088.23
412(1)	Elastomeric Bearing Pad	8.00	each	129,478.26	10.00	8.00	18.00	23,306.09		7,639.22	30,945.30	160,423.56	20,052.94
414	Forms and Falseworks	1.00	L.S.	2,466,367.79	10.00	8.00	18.00	443,946.20		145,515.70	589,461.90	3,055,829.69	3,055,829.69

PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES												
505(5)	Groined Riprap, Class "A"	1,461.00	cu.m.	7,729,328.35	10.00	8.00	18.00	1,391,279.10	456,030.37	1,847,309.48	9,576,637.82	6,554.85
506	Stone Masonry	24.00	cu.m.	96,359.66	10.00	8.00	18.00	17,344.56	5,685.16	23,029.72	119,388.38	4,974.52
508	Handicoid Rock Embankment	1,601.00	cu.m.	2,712,215.62	10.00	8.00	18.00	488,198.81	160,020.72	648,219.53	3,360,435.16	2,098.96
PART H - MISCELLANEOUS STRUCTURES												
603(3)a1	Metal Guardrail (Metal Beam) Including Post	179.00	m.	410,485.67	10.00	8.00	18.00	73,887.42	24,218.65	98,106.07	508,591.74	2,841.29
603(4)a	Metal Beam End Piece	8.00	each	11,996.22	10.00	8.00	18.00	2,159.32	707.78	2,867.10	14,863.31	1,857.91
612(1)	Reflectized Thermoplastic Pavement Marking	102.00	sq.m.	78,792.03	10.00	8.00	18.00	14,182.57	4,648.73	18,831.30	97,623.33	957.09
612(1)	Reflectized Thermoplastic Pavement Marking (Yellow)	25.00	sq.m.	20,550.57	10.00	8.00	18.00	3,699.10	1,212.48	4,911.59	25,462.15	1,018.49
				78,851,460.21						97,432,566.26		

Prepared /Submitted by:



BEÑ A. SARALEA

Engineer IV - Chairman Editing Committee

Recommending Approval:



CAYAMO BAO D. DIA

Assistant Regional Director

Approved :



JORGE U. MARTINEZ JR. CESO III

Regional Director

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: A.1.1(3) Construction of Field Office for the Engineer

Unit of Measurement: L. S.

Output per hour:

Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	15.00	611.92	9,178.80
b.	Masons	4	15.00	443.20	26,592.00
c.	Carpenters	4	15.00	443.20	26,592.00
d.	Laborers	8	15.00	342.24	41,068.80
Sub-total for A				P	103,431.60
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.	Bagger Mixer	1	15.00	1,376.00	20,640.00
b.	Water Truck	1	1.00	19,600.00	19,600.00
c.	Minor Tools, 10% of Labor				10,343.16
Sub-total for B				P	50,583.16
C. Total (A+B)					154,014.76
D. Output/day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
	Gravel Bedding	0.00	cu.m.	1,169.50	-
	Selected Fill	0.00	cu. m.	669.50	-
	Soil Poisoning	0.00	lit.	1,900.00	-
	Portland Cement	220.00	bag	289.23	63,630.68
	Crushed gravel	20.00	cu.m.	1,169.50	23,390.00
	Washed Sand	30.00	cu.m.	1,169.50	35,085.00
	Deformed Bars, Grade 60	800.00	kg.	45.00	36,000.00
	No. #16 G.I. Tie Wire	35.00	kg.	70.00	2,450.00
	Coco Lumber	600.00	bd.ft.	15.00	9,000.00
	Ordinary Plywood, 1/4" x 4' x8"	0.00	pcs.	650.00	-
	CWN, Assorted	20.00	kg.	80.00	1,600.00
	CHB 6" thick	850.00	pc.	20.00	17,000.00
	10mm dia. X 6m RSB	150.00	kg.	43.00	6,450.00
	D-1,Hollow Core Flush Type swing door,complete w/ accessories	1.00	set	1,495.20	1,495.20
	W-1,Jalousie window, 1.4mx 1.2m.	0.00	set	1,176.00	-
	W 2, Jalousie window, 2.8m x 1.2m	0.00	set	2,352.00	-
	65 x 65 x 6mm Angle Bar	400.00	kg.	48.00	19,200.00
	50 x 50 x 6mm Angle Bar	200.00	kg.	48.00	9,600.00
	50 x 50 x 4mm Angle Bar	120.00	kg.	48.00	5,760.00
	Purlins C-150x50x3mm	35.00	kg.	48.00	1,680.00
	16mm dia. Cross Bracing	65.00	kg.	50.00	3,250.00
	16mm dia. Turn Buckle	30.00	pc.	230.00	6,900.00
	12mm thk. Base plate	45.00	kg.	48.00	2,160.00
	10mmthk batten plate	30.00	kg.	48.00	1,440.00
Sub-total for E				P	246,090.88
Total Cost For Materials					351,922.48
F. Direct Cost (C + E)					505,937.24
G. Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016		50,593.72
H. Contractor's Profit(CP)			8% per D.O.197 s 2016		40,474.98
I. Value Added Tax (VAT)			5% per D.O.197 s 2016		29,850.30
L. Total Unit Cost					626,856.24

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description:

A.1.1(3)

Construction of Field Office for the Engineer

Unit of Measurement:

L.S.

Output per hour:

Quantity:

1.00

Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
a.	Const. Foreman	1		611.92	-
b.	Masons	4		443.20	-
c.	Carpenters	6		443.20	-
d.	Laborers	10		342.24	-
Sub-total for A				P	-
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
a.	Bagger Mixer	1		1,376.00	-
b.	Water Truck	1		19,600.00	-
c.	Minor Tools, 10% of Labor			0.00	-
Sub-total for B				P	-
C.	Total (A+B)				-
D.	Output/day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	10mm dia. Sag rod	15.00	kg.	48.00	720.00
	20mm dia. X 350mm Anchor Bolts	15.00	pc.	150.00	2,250.00
	Welding Rod	25.00	kg.	130.00	3,250.00
	Primer, Zinc Cromate	5.00	gal.	531.00	2,655.00
	Pre-panited G.I. Roofing Sht. Long span	55.00	sq.m.	420.00	23,100.00
	Pre-painted flashing Ridge Roll GA24,0.60m width	10.00	ln.m.	189.00	1,890.00
	Pre-painted flashing, GA 24	2.00	ln.m.	189.00	378.00
	Teckscrew 1-1/2"	1,000.00	pc.	1.25	1,250.00
	Roof Sealant	2.00	lit.	230.00	460.00
	Rough Lumber, Sun dries Tanguile	700.00	bd.ft.	37.00	25,900.00
	Finishing Nails	5.00	kg.	280.00	1,400.00
	Wood Preservative Brown	-	lit.	7,245.00	-
	2 x 40w Flourescent lighting fixtures	5.00	set	1,450.00	7,250.00
	Porcelain Ceiling Outlet w/female	2.00	pc.	50.00	100.00
	Duplex Convenience Outlet	3.00	pc.	170.00	510.00
	Two gang Switch	3.00	pc.	132.00	396.00
	3.50mm2 THW	2.00	roll	3,600.00	7,200.00
	8.00mm2 THW	20.00	m.	69.33	1,386.60
	15mm dia. PVC pipe	20.00	pc.	76.00	1,520.00
	15mm dia. PVC Coupling	20.00	pc.	27.00	540.00
	15mm dia. PVC Elbow	20.00	pc.	26.00	520.00
	15mm dia. PVC Clamp	50.00	pc.	8.00	400.00
	20mm dia. RSC Pipe	4.00	pc.	240.00	960.00
	20mm dia. RSC Coupling	3.00	pc.	36.00	108.00
	20mm dia. RSC Elbow	3.00	pc.	30.00	90.00
	20mm dia. RSC Clamp	10.00	pc.	18.00	180.00
	20mm dia. Service Entrance Cap	2.00	pc.	101.50	203.00
	Wire Holder	2.00	pc.	50.00	100.00
	Utility Box	7.00	pc.	32.00	224.00
	Octagon Box	50.00	pc.	34.00	1,700.00
Sub-total for E				P	86,640.60
					86,640.60
F.	Direct Cost (C + E)				
G.	Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		
H.	Contractor's Profit(CP)		8% per D.O.197 s 2016		
I.	Value Added Tax (VAT)		5% per D.O.197 s 2016		
L.	Total Unit Cost				

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

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

Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Electrical Tape(big)	7.00	pc.	28.00	196.00
Panel Board9Side main w/ branches)	2.00	set	2,750.00	5,500.00
Water Closet(include,fitting&Accessories)	1	set	6,062.00	6,062.00
Lavatory(include fitting & accessories)	1	set	4,512.00	4,512.00
1/2' GI Pipe S 40	2	pc.	292.00	584.00
1/2' Water Faucet	2	pc.	165.00	330.00
1/2' Assorted Connector	8	pc.	19.00	152.00
4" PVC Series 1000	1	pc.	640.00	640.00
2" PVC Series 1000	1	pc.	305.00	305.00
4" PVC Assorted Connector	6	pc.	77.00	462.00
2" PVC Assorted Connector	8	pc.	56.00	448.00
				-
				-
Sub-total for E			P	19,191.00
F. Direct Cost (C + E)				19,191.00
G. Overhead, Contingencies and Miscellaneous				-
H. Contractor's Profit(CP)				
I. Value Added Tax (VAT)				
L. Total Unit Cost				

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: A.1.1(11) Provision of Furnitures/Fixtures, Equipment & Appliances for the Field Office for the
Unit of Measurement: L. S. Engineer
Output per hour:
Quantity: 1.00

Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Office Equipment/Facilities& Supplies				-
				-
				-
White Board , 3' x 6'	1	each.	2,000.00	2,000.00
8-seater Monoblock Dining Table	1	unit	3,000.00	3,000.00
Monoblock Backrest Chair	12	pcs.	500.00	6,000.00
Plastic Pail & Basin	2	set	300.00	600.00
Aluminum Cookware	1	set	3,000.00	3,000.00
each Plate, Glass, Spoon & Fork	1	doz	1,900.00	1,900.00
6" Sleeping Bed, Good Quality w/ pillows & blanket	3	each.	5,000.00	15,000.00
Office Table, Jr. Executive type	1	each.	7,000.00	7,000.00
w/ chair				-
Drawing Table	1	each.	5,000.00	5,000.00
Computer Table	1	each.	3,000.00	3,000.00
Cartridge(Computer Printer/Ink)	6	sets	1,800.00	10,800.00
CD RW	15	pc.	35.00	525.00
DVD Recordable & Writer	2	pc.	55.00	110.00
Bond paper (Long)	16	ream	330.00	5,280.00
Bond paper (Short)	15	ream	270.00	4,050.00
Yellow pad	6	pads	34.00	204.00
Scotch Tape	6	rolls	45.00	270.00
Masking Tape	6	rolls	134.00	804.00
Batteries" Energizer"	15	pc.	48.00	720.00
Ballpen	4	box	200.00	800.00
Pencil Lead, No. 5	4	box	150.00	600.00
Paper Clip(Plastic coated)	4	box	40.00	160.00
Fastener(plastic coated)	6	box	60.00	360.00
Eraser(ink, pencil)	6	box	20.00	120.00
Staple wire	6	box	250.00	1,500.00
Cutter blade	3	box	250.00	750.00
Glue, 130 grams	6	bottle	85.00	510.00
Correction Fluid Pen	6	bottle	50.00	300.00
Brown Envelope, Long & Short	5	doz.	85.00	425.00
Expanded Envelope, long	5	doz.	125.00	625.00
Colored Pencil, 12's	6	set	145.00	870.00
Folder, short	6	doz.	90.00	540.00
Folder, long	6	doz.	95.00	570.00
Pentel pen (Assorted colors)	6	pcs.	60.00	360.00
White Board Marker(Assorted colors)	6	pcs.	85.00	510.00
Letter Envelope, White(Long)	1	box	100.00	100.00
Data File Folder	6	pcs.	100.00	600.00
Sign Pen, Assorted Colors	2	doz.	900.00	1,800.00
				-
Sub-total for E			P	80,763.00
F. Direct Cost (C + E)				200,598.00
G. Overhead, Contingencies and Miscellaneous		per D.O.197 s 2016		-
H. Contractor's Profit(CP)		8% per D.O.197 s 2016		16,047.84
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		10,832.29
L. Total Unit Cost				227,478.13

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: A.1.1(11)

Unit of Measurement: L. S.

Output per hour:

Quantity: 1.00

Provision of Furnitures/Fixtures, Equipment & Appliances for the Field Office for the Engineer

Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Office Equipment/Facilities& Supplies				
Desktop Computer	1	unit	60,000.00	60,000.00
Digital Camera (12 MP)	1	unit	10,000.00	10,000.00
Computer Printer (Scanner & Xerox)	1	unit	5,000.00	5,000.00
USB (16GB)	2	pcs.	800.00	1,600.00
Water Dispenser	1	unit	7,000.00	7,000.00
Electric Fan	2	pcs.	1,500.00	3,000.00
Steel Cabinet	1	unit	4,500.00	4,500.00
Gas Stove w/tank	1	set	3,500.00	3,500.00
stove tank refill	10	tanks	890.00	8,900.00
Wall Clock	2	pcs.	350.00	700.00
Rice Cooker	1	unit	1,200.00	1,200.00
Scientific Calculator	1	pc.	2,500.00	2,500.00
Electric Airpot	1	unit	1,500.00	1,500.00
water container	4	pcs.	200.00	800.00
puncher	1	pc.	250.00	250.00
Stapler no. 35	2	pcs.	350.00	700.00
Bulletin/Cork Board 2' x 3'	2	pc.	500.00	1,000.00
Scissors	5	pcs.	35.00	175.00
Record Book (500 leaves)	6	pcs.	110.00	660.00
Folding beds	2	pcs.	1,700.00	3,400.00
Bedsheets (Single)	6	pcs.	200.00	1,200.00
Rechargeable Lamps	3	unit	750.00	2,250.00
-				-
-				-
-				-
-				-
-				-
-				-
-				-
-				-
-				-
-				-
Sub-total for E			P	119,835.00
F. Direct Cost (C + E)				119,835.00
G. Overhead, Contingencies and Miscellaneous				-
H. Contractor's Profit(CP)				
I. Value Added Tax (VAT)				
L. Total Unit Cost.				

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: A.1.2 (5) Operation & Maintenance of Go'vt Service Vehicle
Unit of Measurement: L.S.
Output per hour:
Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor	a. Service Driver	1	252.00	443.20	111,686.40
					-
					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for A				P	111,686.40
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	a. GOV'T SERVICE VEHICLE	1	8.40		-
					-
					-
					-
					-
Sub-total for B				P	-
C.	Total (A+B)				111,686.40
D. Output/day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials	a. liters, Diesel Fuel	2,520.00	liter	33.00	83,160.00
	b. Engine Oil & Lubricants	1.00	l.s.	12,474.00	12,474.00
	c. Tires	5.00	pcs.	9,500.00	47,500.00
	d. Spare parts etc.	1.00	L.S.	84,000.00	84,000.00
					-
					-
					-
					-
					-
					-
Sub-total for E				P	227,134.00
F.	Direct Cost (C + E)				338,820.40
G.	Overhead, Contingencies and Miscellaneous				-
H.	Contractor's Profit(CP)				-
I.	Value Added Tax (VAT)		5% per D.O.197 s 2016		16,941.02
L.	Total Unit Cost				355,761.42

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description:

B.4(1) Bridge Survey and Staking

Unit of Measurement:

k.m.

Output per hour:

Quantity: 0.387

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
For Fieldworks: (assumed output = 300 ln.m.)				
a. Geodetic Engineer	1	1.29	833.31	1,074.75
b. Skilled Laborer	1	1.29	443.20	571.61
c. Laborer	1	1.29	342.24	441.40
				-
For Office works: (assumed output = 100 ln.m.)				
a. Geodetic Engineer	1	3.87	833.31	3,224.24
b. Skilled Laborer	1	3.87	443.20	1,714.83
				-
				-
Sub-total for A			P	7,026.83
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Total Station complete w/ accessories	1	1.29	800.00	1,031.79
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for B			P	1,031.79
C. Total (A+B)				8,058.61
D. Output/day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Standard Stake Plan (800mm x 910mm plotting)	86.00	sheets	200.00	17,200.00
				-
b. blue print as stake plan	430.00	pcs.	34.00	14,620.00
				-
miscellaneous(5% of Materials)				1,591.00
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for E			P	33,411.00
				41,469.61
F. Direct Cost (C + E)				4,146.96
G. Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		3,317.57
H. Contractor's Profit(CP)		8% per D.O.197 s 2016		2,446.71
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		132,794.51
L. Total Unit Cost				

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: B.5 Project Billboard
Unit of Measurement: units
Output per hour:
Quantity: 2.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Foreman	1	0.25	611.92	152.98
b.	Carpenters	1	0.25	443.20	110.80
c.	Laborer	2	0.25	342.24	171.12
					-
					-
					-
					-
					-
					-
Sub-total for A				P	434.90
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for B				P	-
Total (A+B)					434.90
D. Output/day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.	Marine Plywood 3/16" thk 4' x 8'	2.00	pc.	388.00	776.00
b.	Tarpaulin (4' x 8')	2.00	pc.	800.00	1,600.00
c.	Assorted Sizes Lumber	100.00	bd. ft.	36.00	3,600.00
d.	Assorted Sizes C.W. Nails	2.00	kg.	45.00	90.00
					-
					-
					-
					-
					-
					-
Sub-total for E				P	6,066.00
F. Direct Cost (C + E)					6,500.90
G. Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016		650.09
H. Contractor's Profit(CP)			8% per D.O.197 s 2016		520.07
I. Value Added Tax (VAT)			5% per D.O.197 s 2016		383.55
L. Total Unit Cost					4,027.31

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: B.7 Occupational Safety and Health Program
Unit of Measurement: L. S.
Output per hour:
Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Safety Practitioner	1	63.00	443.20	27,921.60
b.	First Aider	1	252.00	342.24	86,244.48
c.	laborers (flagmen) - 2 laborers/shift	4	252.00	342.24	344,977.92
					-
					-
					-
					-
					-
					-
Sub-total for A				P	459,144.00
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for B				P	-
C. Total (A+B)					459,144.00
D. Output/day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
					-
a.	Pairs, Rubber Boots Men, Long, with	30.00	pair	400.00	12,000.00
b.	Steel Toe, Black				
c.	Pairs, Working Gloves (Maong Materials)	30.00	pair	15.00	450.00
d.	Pcs., Rain Coats (Rainforced, Hip Length Small, Medium, & Large)	30.00	pcs.	100.00	3,000.00
e.	Barricades/Signboards	1.00	L.S	20,000.00	20,000.00
					-
					-
					-
					-
					-
Sub-total for E				P	35,450.00
F. Direct Cost (C + E)					494,594.00
G. Overhead, Contingencies and Miscellaneous					
H. Contractor's Profit(CP)				8% per D.O.197 s 2016	39,567.52
I. Value Added Tax (VAT)				5% per D.O.197 s 2016	26,708.08
L. Total Unit Cost					560,869.60

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL
BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description:	B.9	Mobilization & Demobilization
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Unit of Measurement: L. S.

Output per hour:

Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					-
Sub-total for A				P	-
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
a.	Low Bed trailer	4	4.00	34,043.00	544,688.00
	Water Truck	2	0.00	19,600.00	-
	Backhoe	2	0.00	12,296.00	-
	Payloader	2	0.00	13,864.00	-
	Dumptrucks	10	0.00	7,030.40	-
	Road Roller	2	0.00	9,011.60	-
	Road grader	1	0.00	17,384.00	-
	Transit Mixer	4	0.00	10,544.00	-
	Portable Screed	1	0.00	2,834.00	-
	Crawler Crane, 75T	2	0.00	16,452.30	-
	Truck Trailer with dolly (20T)	1	0.00	22,127.95	-
	Bar Cutter	1	4.00	-	-
	Conc. Mixer(1 Bagger)	1	4.00	-	-
	Plate Compactor	2	4.00	-	-
Sub-total for B				P	544,688.00
C.	Total (A+B)				544,688.00
D. Output/day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				-
Sub-total for E				P	-
F.	Direct Cost (C + E)				544,688.00
G.	Overhead, Contingencies and Miscellaneous				-
H.	Contractor's Profit(CP)				-
I.	Value Added Tax (VAT)		5% per D.O.197 s 2016		27,234.40
L.	Total Unit Cost				571,922.40

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 104(1)a Embankment from Roadway Excavation
Unit of Measurement: cu.m.
Output per hour: 50.00 cu.m./hr.
Quantity: 166.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
For excavation Work:				
a. Const. Foreman	1	0.34	611.92	210.78
b. Laborers	2	0.34	342.24	235.77
				-
Spreading & Compaction:				-
a. Const. Foreman	1	0.42	611.92	253.95
b. Laborers	2	0.42	342.24	284.06
				-
				-
				-
				-
Sub-total for A			P	984.55
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Bulldozer	1	0.34	27,032.00	9,311.17
b. Payloader	1	0.34	13,864.00	4,775.45
c. Dumptruck	2	0.34	11,360.00	7,825.90
				-
Spreading and Compaction:				-
a. Road Grader	1	0.42	17,384.00	7,214.36
b. Road Roller	1	0.42	14,888.00	6,178.52
c. Water Truck	2	0.10	19,600.00	4,067.00
				-
				-
Sub-total for B			P	39,372.41
Total (A+B)				40,356.96
C.				
D. Output/day	400.00	cu.m./day		243.11
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a.				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for E			P	-
F. Direct Cost (C + E)				40,356.96
G. Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		4,035.70
H. Contractor's Profit (CP)		8% per D.O.197 s 2016		3,228.56
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		2,381.06
L. Total Unit Cost				301.22

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL
BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description:	104(2)a	Embankment from Borrow
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Unit of Measurement: cu.m.

Output per hour: 50.00 cu.m./hr.

Quantity: 19,502.00

Quantity:		19,502.00		
Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	48.76	611.92	29,834.16
b. Laborers	2	48.76	342.24	33,371.82
				-
				-
				-
				-
Sub-total for A			P	63,205.98
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Road grader	1	48.76	17,384.00	847,556.92
b. Road Roller	1	48.76	14,768.00	720,013.84
c. Water truck	1	12.19	19,600.00	238,899.50
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for B			P	1,806,470.26
C. Total (A+B)				1,869,676.24
D. Output/day		400.00	cu.m./day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Common Borrow (w/ 25% shrinkage)	24,378.00	cu.m.	589.50	14,370,831.00
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for E			P	14,370,831.00
F. Direct Cost (C + E)				16,240,507.24
G. Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		1,624,050.72
H. Contractor's Profit (CP)		8% per D.O.197 s 2016		1,299,240.58
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		958,189.93
L. Total Unit Cost				1,031.79

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 105(1)a Subgrade Preparation

Unit of Measurement: sq.m.

Output per hour: 300.00 sq.m./hr.

Quantity: 197.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	0.08	611.92	50.23
b.	Laborers	2	0.08	342.24	56.18
					-
					-
					-
Sub-total for A					P 106.41
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.	Road grader	1	0.08	17,384.00	1,426.94
b.	Road Roller	1	0.08	14,768.00	1,212.21
c.	Water truck	1	0.02	19,600.00	402.21
					-
					-
					-
					-
					-
					-
					-
Sub-total for B					P 3,041.35
C. Total (A+B)					3,147.76
D. Output/day 2,400.00 sq.m./day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for E					P -
F. Direct Cost (C + E)					3,147.76
G. Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016		314.78
H. Contractor's Profit(CP)			8% per D.O.197 s 2016		251.82
I. Value Added Tax (VAT)			5% per D.O.197 s 2016		185.72
L. Total Unit Cost					19.80

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL
BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description:	200(1)	Aggregate Subbase Course
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Unit of Measurement: cu.m.

Output per hour: 50.00 cu.m./hr.

Quantity: 1,386.00

A. Labor					
a.	Const. Foreman	1	3.47	611.92	2,120.30
b.	Laborers	2	3.47	342.24	2,371.72
					-
					-
					-
					-
Sub-total for A					P 4,492.03
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.	Road grader	1	3.47	17,384.00	60,235.56
b.	Road Roller	1	3.47	14,768.00	51,171.12
c.	Water truck	1	0.87	19,600.00	16,978.50
					-
					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for B					P 128,385.18
C.	Total (A+B)				132,877.21
D. Output/day		400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.	Aggregate Subbase Course (w/ 15% shrinkage)	1,594.00	cu.m.	937.50	1,494,375.00
					-
					-
					-
					-
					-
					-
					-
Sub-total for E					P 1,494,375.00
F.	Direct Cost (C + E)				1,627,252.21
G.	Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016	162,725.22
H.	Contractor's Profit(CP)			8% per D.O.197 s 2016	130,180.18
I.	Value Added Tax (VAT)			5% per D.O.197 s 2016	96,007.88
L.	Total Unit Cost				1,454.66

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description:	300(1)	Gravel Surface Course, 0.15m. Thk.
Unit of Measurement:	cu.m.	
Output per hour:	50.00	cu.m./hr.
Quantity:	161.00	

Bid Item Description						Total Unit Cost
A.	Labor	No. of Persons	No. of Days	Daily Rate	Amount	
a.	Const. Foreman	1	0.40	611.92		246.30
b.	Laborers	2	0.40	342.24		275.50
					-	
					-	
					-	
Sub-total for A					P	521.80
B.	Equipment, (2014 ACEL Rates)	No. of Equipment	No. of Days	Daily Rate	Amount	
a.	Road grader	1	0.40	17,384.00		6,997.06
b.	Road Roller	1	0.40	14,768.00		5,944.12
c.	Water truck	1	0.10	19,600.00		1,972.25
					-	
					-	
					-	
					-	
					-	
					-	
					-	
					-	
Sub-total for B					P	14,913.43
C.	Total (A+B)					15,435.23
D.	Output/day	400.00	cu.m./day			
E.	Name and Specifications	Quantity	Unit	Unit Cost	Amount	
F.	Materials					
a.	Gravel Surface Course (w/ 15% shrinkage)	186.00	cu.m.	1,074.50		199,857.00
					-	
					-	
					-	
					-	
					-	
					-	
					-	
					-	
					-	
					-	
					-	
					-	
					-	
Sub-total for E					P	199,857.00
F.	Direct Cost (C + E)					215,292.23
G.	Overhead, Contingencies and Miscellaneous					21,529.22
H.	Contractor's Profit(CP)					17,223.38
I.	Value Added Tax (VAT)					12,702.24
J.	Total Unit Cost					1,656.81

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 311(1)e1 Portland Cement Concrete Pavement, 0.28 m. thick
Unit of Measurement: sq. m.
Output per hour: 57.50 sq.m./hr.
Quantity: 2,625.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	5.71	611.92	3,491.93
b. Skilled	4	5.71	443.20	10,116.52
c. Laborers, Unskilled	12	5.71	342.24	23,436.00
				-
				-
				-
				-
				-
				-
Sub-total for A				P 37,044.46
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Transit Mixer	4	5.71	10,544.00	240,678.26
b. Concrete Vibrator	2	5.71	730.00	8,331.52
c. Batching Plant	1	5.71	14,076.00	80,325.00
d. Payloader	1	5.71	13,864.00	79,115.22
e. Concrete Screeder	1	5.71	4,360.00	24,880.43
f. Water Truck	1	5.71	19,600.00	111,847.83
g. Concrete Saw	1	5.71	261.04	1,489.63
h. Bar Cutter	1	0.57	1,758.00	1,003.21
Minor Tools (5% of labor)				1,852.22
				-
Sub-total for B				P 549,523.32
Total (A+B)				586,567.78
C.				
D. Output/day	460.00	sq.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement (Type 1)	6,983.00	Bags	289.23	2,019,695.62
b. Fine Aggregates	405.00	cu. m.	1,169.50	473,647.50
c. Coarse Aggregates	735.00	cu. m.	1,169.50	859,582.50
d. Reinforcing Steel Bars	1,313.00	kgs	43.00	56,459.00
e. Asphalt Sealant	447.00	ltr	75.00	33,525.00
f. Curing Compound	762.00	ltr.	40.00	30,480.00
g. Concrete Saw	1.00	pcs.	8,000.00	8,000.00
h. Pipe Sleeve, 2" dia.	21.00	l.m.	133.00	2,793.00
i. Grease/Tar	21.00	lit.	300.00	6,300.00
j. Steel Forms (rental)	1,208.00	l.m.	60.00	72,480.00
				-
Sub-total for E				P 3,562,962.62
Direct Cost (C + E)				4,149,530.40
G. Overhead, Contingencies and Miscellaneous	10% per D.O.197 s 2016			414,953.04
H. Contractor's Profit (CP)	8% per D.O.197 s 2016			331,962.43
I. Value Added Tax (VAT)	5% per D.O.197 s 2016			244,822.29
L. Total Unit Cost				1,958.58

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL
BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 103{1}a Structure Excavation

Unit of Measurement: cu.m.

Output per hour: 20 cu.m./hr.

Quantity: 123.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	0.77	611.92	470.41
b.	Laborers	3	0.77	342.24	789.29
					-
					-
					-
					-
					-
					-
Sub-total for A				P	1,259.70
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.	Backhoe	1	7.11	12,296.00	87,378.45
b.	Dumptruck	2	7.11	11,360.00	161,454.00
	Minor Tools(10% of Labor)				125.97
					-
					-
					-
					-
					-
					-
Sub-total for B				P	248,958.42
C. Total (A+B)					250,218.12
D. Output/day		160.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.					-
					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for E				P	-
F. Direct Cost (C + E)					250,218.12
G. Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016		25,021.81
H. Contractor's Profit(CP)			8% per D.O.197 s 2016		20,017.45
I. Value Added Tax (VAT)			5% per D.O.197 s 2016		14,762.87
L. Total Unit Cost					2,520.49

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 103(2)a Bridge Excavation(Common Soil)
Unit of Measurement: cu.m.
Output per hour: 20 cu.m./hr.
Quantity: 1,137.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	7.11	611.92	4,348.46
b.	Laborers	2	7.11	342.24	4,864.09
c.	Skilled Laborers	1	7.11	443.20	3,149.49
					-
					-
					-
					-
					-
					-
Sub-total for A				P	12,362.03
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.	Backhoe	1	7.11	12,296.00	87,378.45
b.	Dumptruck	2	7.11	11,360.00	161,454.00
Minor Tools(10% of Labor)					1,236.20
					-
					-
					-
					-
					-
					-
Sub-total for B				P	250,068.65
C. Total (A+B)					262,430.69
D. Output/day		160.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for E				P	-
F. Direct Cost (C + E)					262,430.69
G. Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016		26,243.07
H. Contractor's Profit(CP)			8% per D.O.197 s 2016		20,994.45
I. Value Added Tax (VAT)			5% per D.O.197 s 2016		15,483.41
L. Total Unit Cost					285.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 1716(6) Structural Steel Sheet Piles, Furnished

Unit of Measurement: m.

Output per hour: 48 m./hr.

Quantity: 2,076.00 Use 2 gangs of labor & equipment

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	2.70	611.92	1,654.10
b. Skilled Laborers	4	2.70	443.20	4,792.10
c. Unskilled Laborers	4	2.70	342.24	3,700.47
				-
				-
				-
				-
				-
				-
Sub-total for A			P	10,146.67
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2009 ACEL Rates)				
a. Truck Mounted Crane	2	2.70	20,848.00	112,709.50
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for B			P	112,709.50
C. Total (A+B)				122,856.17
D. Output/day 768.00 m./day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Steel Sheet Pile FY50	99,648.00	kg.	66.00	6,576,768.00
				-
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for E			P	6,576,768.00
F. Direct Cost (C + E)				6,699,624.17
G. Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016	669,962.42
H. Contractor's Profit (CP)			8% per D.O.197 s 2016	535,969.93
I. Value Added Tax (VAT)			5% per D.O.197 s 2016	395,277.83
L. Total Unit Cost				3,998.48

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 1716 (12) Structural Steel Sheet Piles, Driven
Unit of Measurement: m.
Output per hour: 10.00 m./hr.
Quantity: 1,880.00

Use 2 gangs for labor & equipment

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	11.75	611.92	7,190.06
b. Skilled Laborers	12	11.75	443.20	62,491.20
c. Unskilled Laborers	12	11.75	342.24	48,255.84
				-
				-
				-
				-
				-
				-
Sub-total for A				P 117,937.10
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2009 ACEL Rates)				
a. Truck Mounted Crane	2	11.75	20,848.00	489,928.00
b. Vibro Hammer	2	11.75	16,984.00	399,124.00
c. Gen. Set	2	11.75	10,373.36	243,773.96
d. Welding Machine	2	11.75	2,968.00	69,748.00
e. Cutting Outfit	2	5.88	363.60	4,272.30
				-
				-
				-
Sub-total for B				P 1,206,846.26
C. Total (A+B)				1,324,783.36
D. Output/day	160.00	m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Welding Rod	45.12	m.	145.00	6,542.40
b. Oxygen/Acetylene	36.00	set	3,750.00	135,000.00
c. Coco Logs	94.00	m.	520.00	48,880.00
d. Good Lumber	2,914.00	bd.ft.	42.00	122,388.00
e. Assorted CW Nails	38.00	kg.	80.00	3,040.00
Misc.(2% of Materials)				6,317.01
				-
				-
				-
				-
				-
Sub-total for E				P 322,167.41
F. Direct Cost (C + E)				1,646,950.77
G. Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		164,695.08
H. Contractor's Profit(CP)		8% per D.O.197 s 2016		131,756.06
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		97,170.10
L. Total Unit Cost				1,085.41

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 1300(2)b1 Steel Tubular Piles 450mm dia. x 12mm thk., Supply
Unit of Measurement: m.
Output per hour: 48 m./hr.
Quantity: 1,104.00 Use 2 gangs of labor & equipment

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	1.44	611.92	879.64
b.	Skilled Laborers	4	1.44	443.20	2,548.40
c.	Unskilled Laborers	4	1.44	342.24	1,967.88
					-
					-
					-
					-
					-
					-
Sub-total for A				P	5,395.92
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2009 ACEL Rates)					
a.	Truck Mounted Crane	2	1.44	20,848.00	59,938.00
					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for B				P	59,938.00
C. Total (A+B)					65,333.92
D. Output/day		768.00	m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.	Steel Tubular Pile FY50	150,942.95	kg.	50.00	7,547,147.61
					-
					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for E				P	7,547,147.61
F. Direct Cost (C + E)					7,612,481.53
G. Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016		761,248.15
H. Contractor's Profit (CP)			8% per D.O.197 s 2016		608,998.52
I. Value Added Tax (VAT)			5% per D.O.197 s 2016		449,136.41
L. Total Unit Cost					8,543.36

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 1300(2)b2 Steel Tubular Piles 450mm dia. x 12mm thk., Drive

Unit of Measurement: m.

Output per hour: 3.00 m./hr.

Quantity: 1,076.40

Use 2 gangs for labor & equipment

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	22.43	611.92	13,722.31
b. Skilled Laborers	12	22.43	443.20	119,265.12
c. Unskilled Laborers	12	22.43	342.24	92,096.78
				-
				-
				-
				-
				-
				-
Sub-total for A				P 225,084.21
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2009 ACEL Rates)				
a. Truck Mounted Crane	2	13.01	20,848.00	542,319.02
b. Diesel Hammer	2	5.61	10,288.00	115,354.20
c. Drop Hammer	2	2.92	1,600.00	9,328.80
d. Welding Machine	2	1.79	2,968.00	10,649.18
e. Cutting Outfit	2	1.79	363.60	1,304.60
				-
				-
				-
Sub-total for B				P 678,955.80
C. Total (A+B)				904,040.01
D. Output/day	48.00	m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Welding Rod	25.83	m.	145.00	3,745.87
b. Oxygen/Acetylene	36.00	set	3,750.00	135,000.00
c. Coco Logs	194.00	m.	520.00	100,880.00
d. Good Lumber	1,669.00	bd.ft.	42.00	70,098.00
e. Assorted CW Nails	22.00	kg.	80.00	1,760.00
Misc.(2% of Materials)				6,229.68
				-
				-
				-
				-
				-
Sub-total for E				P 317,713.55
F. Direct Cost (C + E)				1,221,753.56
G. Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		122,175.36
H. Contractor's Profit(CP)		8% per D.O.197 s 2016		97,740.29
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		72,083.46
L. Total Unit Cost				1,406.31

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - CONSTRUCTION OF OF LABASON RIVER CONTROL , ANTONINO-IMELDA,

Item No./Description: 1301(2)c Steel Tubular Test Piles 450mm dia. x 12mm thk.

Unit of Measurement: m.

Output per hour: 3.000 m./hr.

Quantity: 48.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	2.00	611.92	1,223.84
b.	Skilled	6	2.00	443.20	5,318.40
c.	Laborers, Unskilled	6	2.00	342.24	4,106.88
					-
					-
					-
					-
					-
					-
					-
Sub-total for A				P	10,649.12
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2009 ACEL Rates)					
a.	Truck Mounted Crane	1	1.16	20,848.00	24,183.68
b.	Diesel Hammer	1	0.50	10,288.00	5,144.00
c.	Drop Hammer	1	0.26	1,600.00	416.00
d.	Welding Machine	1	0.16	2,968.00	474.88
e.	Cutting Outfit	1	0.16	363.60	1,064.91
					-
					-
					-
Sub-total for B				P	31,283.47
C. Total (A+B)					41,932.59
D. Output/day		24.00	m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.	Coco logs	24.00	m.	520.00	12,480.00
b.	Good Lumber	192.00	bd.ft.	42.00	8,064.00
c.	Nail/Spike	7.68	kg.	42.00	322.56
d.	Steel Sheet Pile	48.00	m.	8,543.36	410,081.07
e.	Welding Rod	2.30	kg.	145.00	334.08
f.	Oxy/Acetylene	0.91	set	3,750.00	3,420.00
					-
					-
					-
					-
					-
					-
					-
Sub-total for E				P	434,701.71
F. Direct Cost (C + E)					476,634.30
G. Overhead, Contingencies and Miscellaneous				10% per D.O.197 s 2016	47,663.43
H. Contractor's Profit (CP)				8% per D.O.197 s 2016	38,130.74
I. Value Added Tax (VAT)				5% per D.O.197 s 2016	28,121.42
L. Total Unit Cost					12,303.12

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL
BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 401(2)a Concrete Railing

Unit of Measurement: m.

Output per hour: 0.880 m./hr.

Quantity: 120.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	17.05	611.92	10,430.45
b. Skilled	4	17.05	443.20	30,218.18
c. Laborers, Unskilled	8	17.05	342.24	46,669.09
				-
				-
				-
				-
				-
				-
				-
Sub-total for A			P	87,317.73
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Concrete Vibrator	1	1.70	730.00	1,244.32
b. Bar Cutter	1	1.70	1,758.00	2,996.59
c. Bar Bender	1	1.70	2,812.00	4,793.18
d. Cutting Outfit	1	1.70	363.60	619.77
Minor Tools (10 % of Labor)				8,731.77
				-
				-
				-
Sub-total for B			P	18,385.64
C. Total (A+B)				105,703.36
D. Output/day	7.04	m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Ready Mix Concrete	14.00	cu.m.	5,006.80	70,095.20
b. Reinforcing Steel Bar	2,976.00	kg.	43.00	127,968.00
c. Plywood	24.00	pc.	345.00	8,280.00
d. Lumber	1,040.00	bd.ft.	42.00	43,680.00
e. Assorted CWN	11.00	kg.	80.00	880.00
f. Tie Wire	60.00	kg.	70.00	4,200.00
g. Acetylene	1.00	set	3,500.00	3,500.00
				-
				-
				-
				-
				-
				-
Sub-total for E			P	258,603.20
F. Direct Cost (C + E)				364,306.56
G. Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		36,430.66
H. Contractor's Profit (CP)		8% per D.O.197 s 2016		29,144.53
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		21,494.09
L. Total Unit Cost				3,761.47

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL
BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 403(5)a Structural Steel, Furnished, Fabricated and Erected, Expansion Dam
Unit of Measurement: kg.
Output per hour: 356.00 kg./hr.
Quantity: 1,170.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	0.41	611.92	251.39
b. Skilled	4	0.41	443.20	728.29
c. Laborers, Unskilled	6	0.41	342.24	843.58
				-
				-
				-
				-
				-
				-
Sub-total for A			P	1,823.26
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Truck Mounted Crane	1	0.41	10,544.00	4,331.63
b. Welding machine	2	0.14	13,864.00	3,759.05
c. Gen. Set	1	0.14	19,600.00	2,657.15
d. Vibro Hammer	1	0.07	24,552.00	1,714.67
e. Cutting Outfit	2	0.14	363.60	182.33
				-
				-
				-
Minor Tools(10% of labor)				182.33
				-
Sub-total for B			P	12,827.16
C. Total (A+B)				14,650.42
D. Output/day	2,848.00	sq.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Structural Steel (imported)	1,170.00	kg.	50.00	58,500.00
b. WF 21" x 9m, wt. = 150.288kg/m	33.78	kg.	50.00	1,689.22
c. Tubular Pipe	89.53	m.	50.00	4,476.70
d. Cover plate	2.35	kg.	50.00	117.48
e. Channel	86.15	kg.	50.00	4,307.60
f. Welding Rod	0.11	kg.	145.00	15.49
g. Acetylene	0.07	set	3,750.00	267.00
				-
				-
				-
				-
Sub-total for E			P	69,373.49
F. Direct Cost (C + E)				84,023.90
G. Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		8,402.39
H. Contractor's Profit(CP)		8% per D.O.197 s 2016		6,721.91
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		4,957.41
L. Total Unit Cost				88.98

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL
BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description:	403(5)b	Structural Steel, Furnished, Fabricated and Erected Erected, Craneway
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Unit of Measurement: kg.

Output per hour:	356.00	kg./hr.
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Quantity: 74,215.00

Quantity:		74,215.00			
Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	26.06	611.92	15,945.80
b.	Skilled	4	26.06	443.20	46,196.75
c.	Laborers, Unskilled	6	26.06	342.24	53,509.85
					-
					-
					-
					-
					-
Sub-total for A					P 115,652.40
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.	Truck Mounted Crane	1	26.06	10,544.00	274,762.28
b.	Welding machine	2	8.60	13,864.00	238,442.79
c.	Gen. Set	1	8.60	19,600.00	168,547.27
d.	Vibro Hammer	1	4.43	24,552.00	108,764.58
e.	Cutting Outfit	2	8.60	363.60	6,253.45
					-
					-
					-
Minor Tools(10% of labor)					11,565.24
					-
Sub-total for B					P 808,335.60
C. Total (A+B)					923,988.01
D. Output/day		2,848.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.	Structural Steel (imported)	74,215.00	kg.	50.00	3,710,750.00
					-
b.	WF 21" x 9m, wt. = 150.288kg/m	7,043.00	kg.	50.00	352,150.18
c.	Tubular Pipe	18,665.07	m.	50.00	933,253.63
d.	Cover plate	489.82	kg.	50.00	24,490.95
e.	Channel	17,960.03	kg.	50.00	898,001.50
f.	Welding Rod	22.26	kg.	145.00	3,228.35
g.	Acetylene	15.00	set	3,750.00	56,250.00
					-
(Rental Basis only (Using 25% of the actual price as the rental)					1,479,661.56
					-
					-
					-
Sub-total for E					P 1,539,139.92
F. Direct Cost (C + E)					2,463,127.92
G. Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016		246,312.79
H. Contractor's Profit(CP)			8% per D.O.197 s 2016		197,050.23
I. Value Added Tax (VAT)			5% per D.O.197 s 2016		145,324.55
L. Total Unit Cost					41.12

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 404(1)a Reinforcing Steel, (Grade 40)
Unit of Measurement: kg.
Output per hour: 180.00 kg./hr.
Quantity: 14,201.00 Use 2 gangs of labor & equipment

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Foreman	1	4.93	611.92	3,017.32
b. Skilled	4	4.93	443.20	8,741.50
c. Laborers, Unskilled	16	4.93	342.24	27,000.83
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				-
				-
				-
				-
Sub-total for A				P 38,759.66
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Bar Cutter	2	2.47	1,758.00	8,668.53
b. Bar Bender	2	2.47	2,812.00	13,865.70
c. Cargo Truck	2	0.74	9,696.00	14,343.01
d. Service Crane	2	0.74	12,176.00	18,011.60
				-
				-
				-
				-
				-
Sub-total for B				P 54,888.84
C. Total (A+B)				93,648.49
D. Output/day 2,880.00 sq.m./day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Reinforcing Steel Bars, Grade 40	14,912.00	kgs.	43.00	641,216.00
b. Tie Wire	299.00	kgs.	70.00	20,930.00
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for E				P 662,146.00
F. Direct Cost (C + E)				755,794.49
G. Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016	75,579.45
H. Contractor's Profit (CP)			8% per D.O.197 s 2016	60,463.56
I. Value Added Tax (VAT)			5% per D.O.197 s 2016	44,591.88
L. Total Unit Cost				65.94

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 404(1)b Reinforcing Steel, (Grade 60)
Unit of Measurement: kg.
Output per hour: 180.00 kg./hr.
Quantity: 175,354.00 Use 2 gangs of labor & equipment

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Foreman	1	60.89	611.92	37,257.85
b. Skilled	4	60.89	443.20	107,940.13
c. Laborers, Unskilled	16	60.89	342.24	333,406.41
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				-
				-
				-
				-
Sub-total for A				P 478,604.39
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Bar Cutter	2	30.44	1,758.00	107,039.00
b. Bar Bender	2	30.44	2,812.00	171,213.70
c. Cargo Truck	2	9.13	9,696.00	177,107.54
d. Service Crane	2	9.13	12,176.00	222,407.32
				-
				-
				-
				-
				-
				-
Sub-total for B				P 677,767.56
C. Total (A+B)				1,156,371.95
D. Output/day 2,880.00 sq.m./day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Reinforcing Steel Bars, Grade 60	184,122.00	kgs.	45.00	8,285,490.00
b. Tie Wire	3,683.00	kgs.	70.00	257,810.00
				-
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for E				P 8,543,300.00
F. Direct Cost (C + E)				9,699,671.95
G. Overhead, Contingencies and Miscellaneous 10% per D.O.197 s 2016				969,967.20
H. Contractor's Profit(CP) 8% per D.O.197 s 2016				775,973.76
I. Value Added Tax (VAT) 5% per D.O.197 s 2016				572,280.65
L. Total Unit Cost				68.54

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description:	405(1)a3	Structural Concrete, (fc' = 20.68 MPA @ 28th day)
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Unit of Measurement: cu.m.

Output per hour: 1.40 cu.m./hr.

Quantity:	32.00	Use 3 gangs of equipment & labor
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Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Foreman	1	0.95	611.92	582.78
b.	Skilled	12	0.95	443.20	5,065.14
c.	Unskilled	24	0.95	342.24	7,822.63
Installation/Removal of Formworks					
b.	Skilled	6	0.95	443.20	2,532.57
c.	Unskilled	12	0.95	342.24	3,911.31
					-
					-
Sub-total for A				P	19,914.44
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.	One bagger mixer	3	0.95	1,376.00	3,931.43
b.	Concrete vibrator	3	0.95	730.00	2,085.71
c.	Water truck	3	0.10	19,600.00	5,600.00
Minor Tools (5% of Labor)					995.72
					-
					-
					-
					-
					-
Sub-total for B					P 12,612.86
C. Total (A+B)					32,527.30
D. Output/day		33.60	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.	Portland Cement	304.00	bag	289.23	87,926.03
b.	Fine Aggregates	16.00	cu.m.	1,169.50	18,712.00
c.	Coarse Aggregates	32.00	pc.	1,169.50	37,424.00
d.	Form lumber	560.00	pc.	42.00	23,520.00
e.	Plywood	13.00	pc.	345.00	4,485.00
f.	Assorted CWNails	6.00	pc.	80.00	480.00
					-
					-
					-
					-
					-
Sub-total for E					P 172,547.03
F. Direct Cost (C + E)					205,074.33
G. Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016		20,507.43
H. Contractor's Profit(CP)			8% per D.O.197 s 2016		16,405.95
I. Value Added Tax (VAT)			5% per D.O.197 s 2016		12,099.39
L. Total Unit Cost					7,940.22

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 405(1)b3 Structural Concrete, Class"A" (fc' = 27.58 Mpa @ 28th day)

Unit of Measurement: cu.m.

Output per hour: 1.40 cu.m./hr.

Quantity: 1,330.00 Use 3 gangs of equipment & labor

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Foreman	1	39.58	611.92	24,221.83
b. Skilled	12	39.58	443.20	210,520.00
c. Unskilled	24	39.58	342.24	325,128.00
Installation/Removal of Formworks				
a. Foreman	1	39.58	611.92	24,221.83
b. Skilled	6	39.58	443.20	105,260.00
c. Unskilled	12	39.58	342.24	162,564.00
				-
				-
Sub-total for A			P	851,915.67
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. One bagger mixer	3	39.58	1,376.00	163,400.00
b. Concrete vibrator	3	39.58	730.00	86,687.50
c. Water truck	3	3.96	19,600.00	232,750.00
Minor Tools (5% of Labor)				42,595.78
				-
				-
				-
				-
				-
Sub-total for B			P	525,433.28
C. Total (A+B)				1,377,348.95
D. Output/day	33.60	cu.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	13,965.00	bag	289.23	4,039,102.01
b. Fine Aggregates	665.00	cu.m.	1,169.50	777,717.50
c. Coarse Aggregates	1,330.00	pc.	1,169.50	1,555,435.00
d. Form lumber	23,275.00	pc.	42.00	977,550.00
e. Plywood	532.00	pc.	345.00	183,540.00
f. Assorted CWNails	233.00	pc.	80.00	18,640.00
				-
				-
				-
				-
				-
Sub-total for E			P	7,551,984.51
F. Direct Cost (C + E)				8,929,333.46
G. Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		892,933.35
H. Contractor's Profit (CP)		8% per D.O.197 s 2016		714,346.68
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		526,830.67
L. Total Unit Cost				8,318.38

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 407(8) Lean Concrete
Unit of Measurement: cu.m.
Output per hour: 1.40 cu.m./hr.
Quantity: 23.60

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Foreman	1	2.11	611.92	1,289.40
b. Skilled	4	2.11	443.20	3,735.54
c. Unskilled	8	2.11	342.24	5,769.19
				-
				-
				-
				-
Sub-total for A			P	10,794.13
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. One bagger mixer	1	2.11	1,376.00	2,899.43
b. Concrete vibrator	1	2.11	730.00	1,538.21
c. Water truck	1	0.21	19,600.00	4,130.00
Minor Tools (5% of Labor)				539.71
				-
				-
				-
				-
				-
				-
Sub-total for B			P	9,107.35
Total (A+B)				19,901.48
D. Output/day	11.20	ln.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	189.00	bag	289.23	54,664.54
b. Fine Aggregates	11.80	cu.m.	1,169.50	13,800.10
c. Coarse Aggregates	23.60	pc.	1,169.50	27,600.20
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for E			P	96,064.84
Direct Cost (C + E)				115,966.32
Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016	11,596.63
Contractor's Profit (CP)			8% per D.O.197 s 2016	9,277.31
Value Added Tax (VAT)			5% per D.O.197 s 2016	6,842.01
Total Unit Cost				6,088.23

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 412(1) Elastomeric Bearing Pad
Unit of Measurement: each
Output per hour: 1 each/hr.
Quantity: 8.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Foreman	1	0.13	611.92	76.49
b.	Unskilled	2	0.13	342.24	85.56
					-
					-
					-
					-
					-
					-
Sub-total for A				P	162.05
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.	Wood/Steel Ladder	1	0.13	800.00	100.00
					-
					-
					-
					-
					-
					-
					-
Sub-total for B				P	100.00
C. Total (A+B)					262.05
D. Output/day		16.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.	Elastomeric Bearing Pad	8.00	each	16,150.00	129,200.00
	Misc.(10% of Labor)				16.21
					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for E				P	129,216.21
F. Direct Cost (C + E)					129,478.26
G. Overhead, Contingencies and Miscellaneous			10% per D.O.197 s 2016		12,947.83
H. Contractor's Profit(CP)			8% per D.O.197 s 2016		10,358.26
I. Value Added Tax (VAT)			5% per D.O.197 s 2016		7,639.22
L. Total Unit Cost					20,052.94

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 414 Forms and Falseworks
Unit of Measurement: L.S.
Output per hour:
Quantity: 1.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Foreman	1	24.00	611.92	14,686.08
b. Skilled Laborers	8	24.00	443.20	85,094.40
c. Unskilled Laborers	6	24.00	342.24	49,282.56
				-
				-
				-
				-
				-
				-
Sub-total for A			P	149,063.04
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Cutting Outfit	1	6.00	363.60	2,181.60
				-
				7,453.15
				-
				-
				-
				-
				-
				-
Sub-total for B			P	9,634.75
C. Total (A+B)				158,697.79
D. Output/day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. 63 mm dia. G.I. Pipes	800.00	pc.	2,800.00	2,240,000.00
b. 63 mm dia C-clamp	1,200.00	pc.	54.00	64,800.00
c. Tie wire	41.00	kg.	70.00	2,870.00
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for E			P	2,307,670.00
F. Direct Cost (C + E)				2,466,367.79
G. Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		246,636.78
H. Contractor's Profit (CP)		8% per D.O.197 s 2016		197,309.42
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		145,515.70
L. Total Unit Cost				3,055,829.69

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 505(5) Grouted Riprap, Class "A"
Unit of Measurement: cu.m.
Output per hour: 1.25 cu.m./hr.
Quantity: 1,461.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	73.05	611.92	44,700.76
b. Skilled laborer	4	73.05	443.20	129,503.04
c. Unskilled Laborer	16	73.05	342.24	400,010.11
				-
				-
				-
				-
				-
				-
Sub-total for A			P	574,213.91
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. One bagger mixer	2	73.05	1,376.00	201,033.60
b. Water truck	2	73.05	19,600.00	2,863,560.00
				-
Minor Tools(10% of Labor)				57,421.39
				-
				-
				-
				-
				-
Sub-total for B			P	3,122,014.99
C. Total (A+B)				3,696,228.90
D. Output/day	20.00	cu.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	4,383.00	bag	289.23	1,267,696.68
b. Fine Aggregates	366.00	cu.m.	1,169.50	428,037.00
c. Gravel Fill	21.92	cu.m.	1,169.50	25,629.59
d. Weep Holes	438.00	m.	204.00	89,352.00
e. Filter Cloth	22.00	sq.m.	160.00	3,520.00
f. Boulders	1,535.00	cu.m.	1,419.50	2,178,932.50
Miscellaneous(1% Materials)				39,931.68
				-
				-
				-
				-
Sub-total for E			P	4,033,099.45
F. Direct Cost (C + E)				7,729,328.35
G. Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		772,932.83
H. Contractor's Profit(CP)		8% per D.O.197 s 2016		618,346.27
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		456,030.37
L. Total Unit Cost				6,554.85

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 506 Stone Masonry
Unit of Measurement: cu.m.
Output per hour: 1.40 cu.m./hr.
Quantity: 24.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	1.07	611.92	655.63
b. Skilled laborer	4	1.07	443.20	1,899.43
c. Unskilled Laborer	16	1.07	342.24	5,866.97
				-
				-
				-
				-
				-
				-
Sub-total for A			P	8,422.03
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. One bagger mixer	2	1.07	1,376.00	2,948.57
b. Water truck	2	0.05	19,600.00	2,100.00
c. Backhoe	2	0.11	12,296.00	2,634.86
Minor Tools(10% of Labor)				842.20
				-
				-
				-
				-
				-
Sub-total for B			P	8,525.63
C. Total (A+B)				16,947.66
D. Output/day 22.40 cu.m./day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	100.80	bag	289.23	29,154.42
b. Fine Aggregates	7.00	cu.m.	1,169.50	8,186.50
c. Gravel Fill	1.00	cu.m.	1,169.50	1,169.50
d. Weep Holes	7.00	m.	204.00	1,428.00
e. Filter Cloth	0.00	sq.m.	160.00	-
f. Boulders	16.00	cu.m.	1,419.50	22,712.00
g. Gravel	13.00	cu.m.	1,169.50	15,203.50
Miscellaneous(2% Materials)				1,557.08
				-
				-
				-
				-
				-
Sub-total for E			P	79,411.00
F. Direct Cost (C + E)				96,358.66
G. Overhead, Contingencies and Miscellaneous			10% per D.O.22 s 2015	9,635.87
H. Contractor's Profit(CP)			8% per D.O.22 s 2015	7,708.69
I. Value Added Tax (VAT)			5% per D.O.22 s 2015	5,685.16
L. Total Unit Cost				4,974.52

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 508 Handlaid Rock Embankment
Unit of Measurement: cu.m.
Output per hour: 3.125 cu.m./hr.
Quantity: 1,601.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	32.02	611.92	19,593.68
b. Skilled laborer	4	32.02	443.20	56,765.06
c. Unskilled Laborer	16	32.02	342.24	175,336.40
				-
				-
				-
				-
				-
Sub-total for A			P	251,695.13
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				-
				-
				-
Minor Tools(10% of Labor)				25,169.51
				-
				-
				-
				-
Sub-total for B			P	25,169.51
C. Total (A+B)				276,864.64
D. Output/day	50.00	cu.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Boulders	1,682.00	cu.m.	1,419.50	2,387,599.00
				-
				-
				-
				-
				-
				47,751.98
				-
				-
				-
				-
Sub-total for E			P	2,435,350.98
F. Direct Cost (C + E)				2,712,215.62
G. Overhead, Contingencies and Miscellaneous		10% per D.O.22 s 2015		271,221.56
H. Contractor's Profit(CP)		8% per D.O.22 s 2015		216,977.25
I. Value Added Tax (VAT)		5% per D.O.22 s 2015		160,020.72
L. Total Unit Cost				2,098.96

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 603(3)a1 Metal Guardrail (Metal Beam) including Post
Unit of Measurement: m.
Output per hour: 4.20 m./hr.
Quantity: 179.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	2.66	611.92	1,629.97
b. Skilled laborer	2	2.66	443.20	2,361.10
c. Unskilled Laborer	4	2.66	342.24	3,646.49
				-
				-
				-
				-
				-
Sub-total for A				P 7,637.55
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. One bagger mixer	2	1.33	1,376.00	3,665.24
b. Water truck	2	0.13	19,600.00	5,220.83
c. Cargo Truck	2	0.33	6,264.00	4,171.34
d. Conc. Vibrator	2	1.33	730.00	1,944.49
Minor Tools(5% of Labor)				381.88
				-
				-
				-
				-
				-
Sub-total for B				P 15,383.78
C. Total (A+B)				23,021.33
D. Output/day	67.20	m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	59.07	bag	289.23	17,084.84
b. Fine Aggregates	4.00	cu.m.	1,169.50	4,678.00
c. Gravel Fill	7.00	cu.m.	1,169.50	8,186.50
d. Metal Beam Guardrail	179.00	m.	1,650.00	295,350.00
e. Plywood Marine	11.00	pc.	435.00	4,785.00
f. Lumber	358.00	bd.ft.	42.00	15,036.00
g. Reinforcing Steel Bars, Grade 40	716.00	kg.	41.00	29,356.00
h. G.I. Tie Wire	14.32	kg.	70.00	1,002.40
i. Assorted CW Nails	14.32	kg.	80.00	1,145.60
j. Bolt,Nut & Washer 5/8" dia x 9"	90.00	pc.	21.00	1,890.00
k. Bolt,Nut & Washer 5/8" dia x 1"	358.00	pc.	25.00	8,950.00
				-
				-
Sub-total for E				P 387,464.34
F. Direct Cost (C + E)				410,485.67
G. Overhead, Contingencies and Miscellaneous				10% per D.O.22 s 2015
				41,048.57
H. Contractor's Profit(CP)				8% per D.O.22 s 2015
				32,838.85
I. Value Added Tax (VAT)				5% per D.O.22 s 2015
				24,218.65
L. Total Unit Cost				2,841.29

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 603(4)a Metal Beam End Piece

Unit of Measurement: each

Output per hour: 6.00 each/hr.

Quantity: 8.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	0.08	611.92	50.99
b. Skilled laborer	1	0.08	443.20	36.93
c. Unskilled Laborer	2	0.08	342.24	57.04
				-
				-
				-
				-
				-
				-
Sub-total for A				P 144.97
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Cargo Truck	2	0.08	6,264.00	1,044.00
				-
				-
				-
Minor Tools(5% of Labor)				7.25
				-
				-
				-
				-
				-
Sub-total for B				P 1,051.25
C. Total (A+B)				1,196.22
D. Output/day	96.00	each/day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Metal Beam Guardrail	8.00	each	1,350.00	10,800.00
				-
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for E				P 10,800.00
F. Direct Cost (C + E)				11,996.22
G. Overhead, Contingencies and Miscellaneous		10% per D.O.22 s 2015		1,199.62
H. Contractor's Profit(CP)		8% per D.O.22 s 2015		959.70
I. Value Added Tax (VAT)		5% per D.O.22 s 2015		707.78
L. Total Unit Cost				1,857.91

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 612(1) Reflectorized Thermoplastic Pavement Marking (White)
Unit of Measurement: sq.m.
Output per hour: 25.00 sq.m./hr.
Quantity: 102.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	0.51	611.92	312.08
b. Skilled laborer	2	0.51	443.20	452.06
c. Unskilled Laborer	6	0.51	342.24	1,047.25
				-
				-
				-
				-
				-
				-
Sub-total for A			P	1,811.40
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Cargo Truck	1	0.51	6,264.00	3,194.64
b. Applicator Machine	1	0.51	750.00	382.50
c. Kneading Machine	1	0.51	1,500.00	765.00
Minor Tools(10% of Labor)				181.14
				-
				-
				-
				-
				-
Sub-total for B			P	4,523.28
Total (A+B)				6,334.68
D. Output/day	200.00	sq.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Thermoplastic White	34.00	bag	1,585.00	53,890.00
b. Glass Beads	4.00	bag	2,500.00	10,000.00
c. Primer	12.00	L	240.00	2,880.00
d. LPG (50 kg)	0.41	cyl	4,050.00	1,652.40
e. LPG (12 kg)	0.20	cyl	1,080.00	220.32
f. Calsumine	12.75	kg	30.00	382.50
Miscellaneous(5% of Mat'ls Cost)				3,432.14
				-
				-
				-
				-
				-
Sub-total for E			P	72,457.36
Direct Cost (C + E)				78,792.03
G. Overhead, Contingencies and Miscellaneous	10% per D.O.197 s 2016			7,879.20
H. Contractor's Profit(CP)	8% per D.O.197 s 2016			6,303.36
I. Value Added Tax (VAT)	5% per D.O.197 s 2016			4,648.73
L. Total Unit Cost				957.09

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

CONST./REPAIR/REHAB./IMPROVEMENT OF VARIOUS INFRASTRUCTURE INCLUDING LOCAL PROJECTS-LOCAL ROADS AND BRIDGES-LOCAL
BRIDGES CONSTRUCTION OF BRIDGE, BARANGAY PARAISO, LILOY, ZAMBOANGA DEL NORTE

Item No./Description: 612(1) Reflectorized Thermoplastic Pavement Marking (Yellow)

Unit of Measurement: sq.m.

Output per hour: 25.00 sq.m./hr.

Quantity: 25.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	0.13	611.92	76.49
b. Skilled laborer	2	0.13	443.20	110.80
c. Unskilled Laborer	6	0.13	342.24	256.68
				-
				-
				-
				-
				-
Sub-total for A			P	443.97
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Cargo Truck	1	0.13	6,264.00	783.00
b. Applicator Machine	1	0.13	750.00	93.75
c. Kneading Machine	1	0.13	1,500.00	187.50
Minor Tools(10% of Labor)				44.40
				-
				-
				-
				-
				-
Sub-total for B			P	1,108.65
C. Total (A+B)				1,552.62
D. Output/day	200.00	sq.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Thermoplastic White	9.00	bag	1,585.00	14,265.00
b. Glass Beads	1.00	bag	2,500.00	2,500.00
c. Primer	3.00	L	260.00	780.00
d. LPG (50 kg)	0.10	cyl	4,050.00	405.00
e. LPG (12 kg)	0.05	cyl	1,080.00	54.00
f. Calsumine	3.13	kg	30.00	93.75
Miscellaneous(5% of Mat'ls Cost)				900.20
				-
				-
				-
				-
				-
Sub-total for E			P	18,997.95
F. Direct Cost (C + E)				20,550.57
G. Overhead, Contingencies and Miscellaneous		10% per D.O.197 s 2016		2,055.06
H. Contractor's Profit(CP)		8% per D.O.197 s 2016		1,644.05
I. Value Added Tax (VAT)		5% per D.O.197 s 2016		1,212.48
L. Total Unit Cost				1,018.49

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	kgs.
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	=	$\frac{5.00 \times 60}{30.00}$	=	10.00 mins.
Unloaded running	=	$\frac{5.00 \times 60}{40.00}$	=	7.50 mins.
Loading and Unloading	:	5.00	mins.	
Capacity of Dumptruck	:	10.00	cu.m.	
Total Cycle time	:	22.50	mins.	
No. of trips for Dumptruck per day	=	$\frac{8 \times 60.00}{22.50}$	=	21.33 say 21.33 trips
Dumptruck daily output	=	10 x 21.33	=	213.33 cu.m.
Using (4) Dumptrucks	=	4 x 213.33	=	853.33 cu.m.

$$1. \text{ No. of days for Dumptrucks} = \frac{1,000.00}{853.33} = 1.17 \text{ say } 1.17 \text{ days}$$

EQUIPMENT USED : (2009 ACEL RATES)

4	- Unit Dumptruck	@ P	11,360.00 /day	x	1.17 days	= P	53,250.00
					Sub - Total	P	53,250.00

Estimated Quantity		1,000.00 cu.m.
Unit Cost	P	10.65 / cu. m./km. (Unit Cost, Hauling per cu.m.per km.)
Grand Total	P	53,250.00
Equipment	P	53,250.00
Labor	P	
Materials	P	

ZAMBOANGA DEL NORTE 2nd DEO

	Ave. Hauling Distance		Unit Cost per cu.m./km.		Hauling Cost per cu.m.		Unit Pirce		Unit Cost per cu.m.
Cost of Fine Aggregates:	30.00	x	10.65	=	319.50	+	850.00	=	1,169.50
Cost of Coarse Aggregates:	30.00	x	10.65	=	319.50	+	850.00	=	1,169.50
Cost of Item 200 Materials:	30.00	x	10.65	=	319.50	+	618.00	=	937.50
Cost of Item 201 Materials:	30.00	x	10.65	=	319.50	+	663.00	=	982.50
Cost of Item 300 Materials:	30.00	x	10.65	=	319.50	+	755.00	=	1,074.50
Cost of Boulders:	30.00	x	10.65	=	319.50	+	1,100.00	=	1,419.50
Cost of Embankmen, Common Borrow:	30.00	x	10.65	=	319.50	+	270.00	=	589.50
Cost of Embankmen, Selected Borrow:	30.00	x	10.65	=	319.50	+	350.00	=	669.50

UNIT COST DERIVATION FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

DESCRIPTION	QUANTITY (Bags)
Portland Cement Concrete Pavement, 0.28 m. thick	14.00
Reinforced Concrete Culvert Pipe, 910 mm. (36") diameter	8.00
Structural Concrete, (fc' = 20.68 MPA @ 28th day)	304.00
Elastomeric Bearing Pad	8.00
Grouted Riprap, Class "A"	800.00
Construction of Field Office for the Engineer	220.00
RCCP, 610 mm dia.	14.00
Catch Basin	4.00
Concrete Cover	1.00
Concrete Curb & Gutter	157.38
Sidewalk	231.80
Informatory Signs	1.00
T O T A L	1,763.18

Quantity = 1,763.18 Bags

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga del Norte 2nd DEO	30.00
PROJECT SITE	

*Average hauling distance from Source to assumed Stockpiling area :

say 30.00 km.

Delivery Charge = P 0.120 x 30.00
= P 3.60 / bag

*Delivery Truck : 1,763.18 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 = $\frac{30.00 \times 60}{30.00}$ = 60.00 mins.

Unloaded running	=	$\frac{30.00 \times 60}{40.00}$	=	45.00 mins.
Loading and Unloading	:	45.00 mins.		
Capacity of Dumptruck	:	8.00 cu.m.		
	:	500.00 bags		
Total Cycle time	:	150.00 mins.		
No. of trips for Dumptruck per day	=	$\frac{8.0 \times 60.00}{150.00}$	=	3.20 say 3.20 trip
Dumptruck daily output	=	500 x 3.20	=	1,600.00 cu.m.
Using (4) Dumptrucks	=	4 x 1600.00	=	6,400.00 cu.m.

1. No. of days for Delivery Truck	=	$\frac{1,763.18}{6,400.00}$	=	0.28 say 0.28 days
2. No. of days for Labor, for unloading	=	complimentary to D. Truck days	=	0.28 days

DELIVERY COST :

1,763.18 - Bags, Portland Cement	@ P	3.60 / bag	= P	6,347.45
		Sub - Total	P	6,347.45

LABOR :

1 - Foreman	@ P	611.92 /day	x 0.28 days	= P	168.58
10 - Laborers, unloading	@ P	342.24 /day	x 0.28 days	= P	942.86
		Sub - Total	P	1,111.44	

MATERIALS :

1,763.18 - Bags, Portland Cement (Pick-Up Price)	@ P	285.00 / bag	= P	502,506.30
		Sub - Total	P	502,506.30

Estimated Quantity		1,763.18 Bags		
Unit Cost	P	289.23 / Bag,	say P	289.23 / Bag
Grand Total	P	509,965.19		
Delivery Cost	P	6,347.45		
Labor	P	1,111.44		
Materials	P	502,506.30		