

APPROVED BUDGET FOR THE CONTRACT

Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Beg. Of Proj. - Abutment A
Abutment A - Abutment B
Abutment B - End of Proj.

0+140.00
0+210.00
260.84

to 0+210.00
to 0+260.84
to 0+320.00

Approaches Net Length
Bridges Net Length

129.16 Ln.m.
50.84 Ln.m.

Contract Duration : **335 CD**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST	
					OCM	PROFIT	%	VALUE					
													(6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
										5%[(5) + (9)]	(9) + (10)	(5) + (11)	(12) / (3)
PART A - FACILITIES FOR THE ENGINEER													
A.1.1(1)	Construction of Field Office for the Engineer	1.00	L.S.	361,061.98	10.00	8.00	18.00	64,991.16	21,302.66	86,293.81	447,355.79	447,355.79	
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00	L.S.	141,906.08	-	8.00	8.00	11,352.49	7,662.93	19,015.41	160,921.49	160,921.49	
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	11.18	month	356,216.23	-	-	-	-	17,810.81	17,810.81	374,027.04	33,455.01	
TOTAL OF PART A				859,184.28				76,343.64	46,776.40	123,120.04	982,304.32		
PART B - OTHER GENERAL REQUIREMENTS													
B.4(1)	Construction Survey & Staking	0.18	km.	15,590.80	10.00	8.00	18.00	2,806.34	919.86	3,726.20	19,317.00	107,316.64	
B.5	Project Billboard/Signboard	2.00	each	10,259.20	10.00	8.00	18.00	1,846.66	605.29	2,451.95	12,711.15	6,355.57	
B.7	Occupation Safety and Health Program	11.17	month	1,023,513.20	-	8.00	8.00	81,881.06	55,269.71	137,150.77	1,160,663.97	103,940.06	
B.9	Mobilization & Demobilization	1.00	L.S.	184,198.00	-	-	-	-	9,209.90	9,209.90	193,407.90	193,407.90	
TOTAL OF PART B				1,233,561.20				86,534.06	66,004.76	152,538.82	1,386,100.01		
PART C - EARTHWORKS													
104(1a)	Embankment, from Excavation	806.00	cu.m.	185,834.77	10.00	8.00	18.00	33,450.26	10,964.25	44,414.51	230,249.28	285.67	
104(1b)	Embankment, Common Borrow	3,748.00	cu.m.	3,026,963.51	10.00	8.00	18.00	544,853.43	178,590.85	723,444.28	3,750,407.79	1,000.64	
105(1a)	Subgrade Preparation	325.00	sq.m.	5,193.01	10.00	8.00	18.00	934.74	306.39	1,241.13	6,434.14	19.80	
TOTAL OF PART C				3,217,991.29				579,238.43	189,861.49	769,099.92	3,987,091.21		
PART D - SUBBASE AND BASE COURSE													
200	Aggregate Subbase Course	508.00	cu.m.	563,616.35	10.00	8.00	18.00	101,450.94	33,253.36	134,704.31	698,320.66	1,374.65	
TOTAL OF PART D				563,616.35				101,450.94	33,253.36	134,704.31	698,320.66		
PART E - SURFACE COURSES													
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thk.	785.00	sq.m.	1,244,703.92	10.00	8.00	18.00	224,046.71	73,437.53	297,484.24	1,542,188.16	1,964.57	
311(1)a	Portland Cement Concrete Pavement, 0.15 m. thk.	387.00	sq.m.	573,482.58	10.00	8.00	18.00	103,226.86	33,835.47	137,062.34	710,544.91	1,836.03	
TOTAL OF PART E				1,818,186.50				327,273.57	107,273.00	434,546.57	2,252,733.07		
PART F - BRIDGE CONSTRUCTION													
101(3)a4	Removal of Structures/Obstructions	64.00	sq.m.	7,390.97	10.00	8.00	18.00	1,330.37	436.07	1,766.44	9,157.41	143.08	
101(3)b5	Removal of Structures/Obstructions	60.00	sq.m.	6,929.03	10.00	8.00	18.00	1,247.23	408.81	1,656.04	8,585.07	143.08	
101(7)a	Removal of Structures/Obstructions	70,000.00	kg.	341,859.07	10.00	8.00	18.00	61,534.63	20,169.69	81,704.32	423,563.39	6.05	
101(6)a	Removal of Structures/Obstructions	81.21	cu.m.	306,753.31	10.00	8.00	18.00	55,215.60	18,098.45	73,314.04	380,067.36	4,680.06	
101(6)b	Removal of Structures/Obstructions	700.00	cu.m.	254,774.50	10.00	8.00	18.00	45,859.41	15,031.70	60,891.11	315,665.61	450.95	
103(2)a	Bridge Excavation Above Ordinary Water Level	686.00	cu.m.	158,335.49	10.00	8.00	18.00	28,500.39	9,341.79	37,842.18	196,177.67	285.97	
103(2)b	Bridge Excavation Below Ordinary Water Level	964.00	cu.m.	222,500.60	10.00	8.00	18.00	40,050.11	13,127.54	53,177.64	275,678.24	285.97	
400(4)a	Precast Concrete Piles, Furnished	1,880.00	ln.m.	7,459,447.62	10.00	8.00	18.00	1,342,700.57	440,107.41	1,782,807.98	9,242,255.60	4,916.09	
400(6)	Structural Steel Sheet Piles, Furnished	2,178.00	ln.m.	5,357,827.82	10.00	8.00	18.00	964,409.01	316,111.84	1,280,520.85	6,638,348.67	3,047.91	
400(12)	Structural Steel Sheet Piles, Driven	1,452.00	ln.m.	1,068,812.12	10.00	8.00	18.00	192,386.18	63,059.91	255,446.10	1,324,258.21	912.02	
400(14)	Precast Concrete Piles, Driven	1,786.00	ln.m.	3,661,896.82	10.00	8.00	18.00	659,141.43	216,051.91	875,193.34	4,537,090.16	2,540.36	
400(16)	Test Piles, Furnished and Driven (400 mm. x 400 mm.)	80.00	ln.m.	397,458.00	10.00	8.00	18.00	71,542.44	23,450.02	94,992.46	492,450.46	6,155.63	
401(2)a	Concrete Railing	100.00	ln.m.	398,564.76	10.00	8.00	18.00	71,741.66	23,515.32	95,256.98	493,821.74	4,938.22	
402(1)	Timber Structures for Craneway	14.00	span	823,523.27	10.00	8.00	18.00	148,234.19	48,587.87	196,822.06	1,020,345.33	72,881.81	
403(5)	Structural Steel, Furnished, Fabricated and Erected	1,247.75	kg.	239,243.89	10.00	8.00	18.00	43,063.90	14,115.39	57,179.29	296,423.18	237.57	
404(1)a	Reinforcing Steel, Grade 40	3,715.16	kg.	179,182.06	10.00	8.00	18.00	32,252.77	10,571.74	42,824.51	222,006.58	59.76	
404(1)b	Reinforcing Steel, Grade 60	96,261.98	kg.	4,944,592.86	10.00	8.00	18.00	890,026.72	291,730.98	1,181,757.69	6,126,350.56	63.64	
405(1)b3	Structural Concrete, Class "A"	550.78	cu.m.	4,482,214.04	10.00	8.00	18.00	806,798.53	264,450.63	1,071,249.16	5,553,463.20	10,082.91	
406(1)a4	Prestressed Concrete AASHTO Girder (Type III)	200.00	ln.m.	4,722,590.96	10.00	8.00	18.00	850,066.37	278,632.87	1,128,699.24	5,851,290.20	29,256.45	
407(8)	Lean Concrete	18.00	cu.m.	91,135.03	10.00	8.00	18.00	16,404.31	5,376.97	21,781.27	112,916.30	6,273.13	
412(1)	Elastomeric Bearing Pad	8.00	each	130,228.17	10.00	8.00	18.00	23,441.07	7,683.46	31,124.53	161,352.70	20,169.09	
414	Forms and Falsework	1.00	L.S.	884,830.96	10.00	8.00	18.00	159,269.57	52,205.03	211,474.60	1,096,305.56	1,096,305.56	
TOTAL OF PART F				36,140,091.36				6,505,216.44	2,132,265.39	8,637,481.83	44,777,573.19		

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN %		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)
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES												
505(5)	Grouted Riprap, Class A	664.00	cu.m.	2,085,743.67	10.00	8.00	18.00	375,433.86	123,058.88	498,492.74	2,584,236.40	3,891.92
507(1)	Rubble Concrete	137.56	cu.m.	585,878.44	10.00	8.00	18.00	105,458.12	34,566.83	140,024.95	725,903.39	5,276.99
508(1)	Handlaid Rock Embankment	275.65	cu.m.	487,019.72	10.00	8.00	18.00	87,663.55	28,734.16	116,397.71	603,417.43	2,189.07
TOTAL OF PART G				3,158,641.83				568,555.53	186,359.87	754,915.40	3,913,557.23	
PART H - MISCELLANEOUS STRUCTURES												
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	36.00	sq.m.	26,277.74	10.00	8.00	18.00	4,729.99	1,550.39	6,280.38	32,558.12	904.39
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	27.00	sq.m.	25,718.80	10.00	8.00	18.00	4,629.38	1,517.41	6,146.79	31,865.59	1,180.21
TOTAL OF PART H				51,996.54				9,359.38	3,067.80	12,427.17	64,423.71	
TOTAL				47,043,269.34				8,253,971.99	2,764,862.07	11,018,834.06	58,062,103.40	

Prepared by :

Submitted by :

Recommending Approval:

Approved by :

BELEN A. SAPALEDA
Head, BAC Technical Working Group

LEONCIO B. SOLAMILLO
Chief, Construction Division

CAYAMOMBAO D. DIA
OIC - Assistant. Regional Director

JORGE U. SEBASTIAN, JR., CESO III
Regional Director

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 104(1a) Embankment, from Excavation

Unit of Measurement: cu.m.

Output per hour: 50.00

Quantity: 806.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Excavation Work:				
	a. Const. Foreman	1	1.67	611.92	1,023.41
	b. Unskilled Labor	2	1.67	342.24	1,144.76
	Spreading and Compaction:				
	a. Const. Foreman	1	2.02	611.92	1,233.02
	b. Unskilled Labor	2	2.02	342.24	1,379.23
Sub-total for A					P 4,780.41
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	For Excavation Work:				
	a. Bulldozer, D6H Series II PSDS/DD	1	1.67	27,032.00	45,209.67
	b. Payloader (1.50 cu.m.)	1	1.67	13,864.00	23,186.85
	c. Dump Truck (12 cu.yd.)	2	1.67	11,360.00	37,998.06
	Spreading and Compaction:				
	a. Motorized Road Grader (140 hp), G710A	1	2.02	17,384.00	35,028.76
	b. Vibratory Roller (10 mt), SD100DC	1	2.02	14,768.00	29,757.52
	c. Water truck/pump (16000 L)	1	0.50	19,600.00	9,873.50
Sub-total for B					P 181,054.36
C.	Total (A+B)				185,834.77
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				185,834.77
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	18,583.48
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	14,866.78
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	10,964.25
J.	Total Unit Cost				285.67

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 104(1b) Embankment, Common Borrow

Unit of Measurement: cu.m.

Output per hour: 50.00

Quantity: 3,748.00

Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	9.37	611.92	5,733.69
	b. Unskilled Labor	2	9.37	342.24	6,413.58
Sub-total for A					P 12,147.27
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G170A	1	9.37	17,384.00	162,888.08
	b. Vibratory Roller (10 mt), SD100C	1	9.37	14,768.00	138,376.16
	c. Water Truck/Pump (16000 L)	1	2.34	19,600.00	45,913.00
Sub-total for B					P 347,177.24
C.	Total (A+B)				359,324.51
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Common Borrow (with 25% Shrinkage Factor)	4,685.00	cu.m.	569.40	2,667,639.00
Sub-total for E					P 2,667,639.00
F.	Direct Cost (C + E)				3,026,963.51
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	302,696.35
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	242,157.08
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	178,590.85
J.	Total Unit Cost				1,000.64

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 200 Aggregate Subbase Course

Unit of Measurement: cu.m.

Output per hour: 50.00

Quantity: 508.00

0.30 m. thk., Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.27	611.92	777.14
	b. Unskilled Labor	2	1.27	342.24	869.29
Sub-total for A					P 1,646.43
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G710A	1	1.27	17,384.00	22,077.68
	b. Vibratory Roller (10 mt), SD100DC	1	1.27	14,768.00	18,755.36
	c. Water Truck/Pump (16000 L)	1	0.32	19,600.00	6,223.00
Sub-total for B					P 47,056.04
C.	Total (A+B)				48,702.47
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 Factor)	584.20	cu.m.	881.40	514,913.88
Sub-total for E					P 514,913.88
F.	Direct Cost (C + E)				563,616.35
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		56,361.63
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		45,089.31
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		33,253.36
J.	Total Unit Cost				1,374.65

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 311(1)e1 Portland Cement Concrete Pavement, 0.28 m. thk.

Unit of Measurement: sq.m.

Output per hour: 57.50

Quantity: 785.00

0.28 m. thk.

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.71	611.92	1,044.25
	b. Skilled Labor	4	1.71	443.20	3,025.32
	c. Unskilled Labor	12	1.71	342.24	7,008.48
Sub-total for A					P 11,078.06
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	1.71	10,544.00	71,974.26
	b. Concrete Vibrator	2	1.71	730.00	2,491.52
	c. Concrete Batch Plant (30 cu.m.)	1	1.71	14,076.00	24,021.00
	d. Payloader (1.50 cu.m.), LX80-2C	1	1.71	13,864.00	23,659.22
	e. Concrete Screeder (5.5 hp)	1	1.71	4,360.00	7,440.43
	f. Water truck/Pump (16000 L)	1	1.71	19,600.00	33,447.83
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	1.71	261.04	445.47
	h. Bar Cutter, Single Phase	1	0.17	1,758.00	300.01
	Minor Tools 5% of Labor				553.90
Sub-total for B					P 164,333.64
C.	Total (A+B)				175,411.70
D.	Output/day	460.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	392.50	kg.	38.00	14,915.00
	b. Curing Compound	227.65	L	35.00	7,967.75
	c. Asphalt Sealant	133.45	L	100.00	13,345.00
	d. Steel Forms (Rental)	361.10	m	52.00	18,777.20
	e. Sand	120.89	cu.m.	1,192.80	144,197.59
	f. Gravel	219.80	cu.m.	1,392.80	306,137.44
	g. Cement	2,088.10	bag	269.00	561,698.90
	h. Concrete Saw (Diamond Blade 14" Ø)	0.12	pc.	8,000.00	942.00
	i. Pipe Sleeve, 2" Ø	6.12	m.	101.67	622.51
	j. Grease/Tar	6.12	L	112.50	688.84
Sub-total for E					P 1,069,292.22
F.	Direct Cost (C + E)				1,244,703.92
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		124,470.39
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		99,576.31
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		73,437.53
J.	Total Unit Cost				1,964.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 311(1)a Portland Cement Concrete Pavement, 0.15 m. thk.

Unit of Measurement: sq.m.

Output per hour: 107.33

Quantity: 387.00

0.15 m. thk.

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.45	611.92	275.80
	b. Skilled Labor	4	0.45	443.20	799.02
	c. Unskilled Labor	12	0.45	342.24	1,851.02
Sub-total for A					P 2,925.85
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	0.45	10,544.00	19,009.26
	b. Concrete Vibrator	2	0.45	730.00	658.04
	c. Concrete Batch Plant (30 cu.m.)	1	0.45	14,076.00	6,344.23
	d. Payloader (1.50 cu.m.), LX80-2C	1	0.45	13,864.00	6,248.68
	e. Concrete Screeder (5.5 hp)	1	0.45	4,360.00	1,965.11
	f. Water truck/Pump (16000 L)	1	0.45	19,600.00	8,833.97
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	0.45	261.04	117.65
	h. Bar Cutter, Single Phase	1	0.05	1,758.00	79.24
	Minor Tools 5% of Labor				146.29
Sub-total for B					P 43,402.48
C.	Total (A+B)				46,328.32
D.	Output/day	858.64	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	193.50	kg.	38.00	7,353.00
	b. Curing Compound	112.23	L	35.00	3,928.05
	c. Asphalt Sealant	65.79	L	100.00	6,579.00
	d. Steel Forms (Rental)	178.02	m	52.00	9,257.04
	e. Sand	59.60	cu.m.	1,192.80	71,088.49
	f. Gravel	108.36	cu.m.	1,392.80	150,923.81
	g. Cement	1,029.42	bag	269.00	276,913.98
	h. Concrete Saw (Diamond Blade 14" Ø)	0.06	pc.	8,000.00	464.40
	i. Pipe Sleeve, 2" Ø	3.02	m.	101.67	306.89
	j. Grease/Tar	3.02	L	112.50	339.59
Sub-total for E					P 527,154.26
F.	Direct Cost (C + E)				573,482.58
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		57,348.26
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		45,878.61
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		33,835.47
J.	Total Unit Cost				1,836.03

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 103(2)a Bridge Excavation Above Ordinary Water Level

Unit of Measurement: cu.m.

Output per hour: 20.00

Quantity: 686.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	4.29	611.92	2,623.61
	b. Skilled Labor	1	4.29	443.20	1,900.22
	c. Unskilled Labor	2	4.29	342.24	2,934.71
Sub-total for A					P 7,458.54
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	4.29	12,296.00	52,719.10
	b. Dump Truck (12 cu.yd.)	2	4.29	11,360.00	97,412.00
	Minor Tools 10% of Labor				745.85
Sub-total for B					P 150,876.95
C.	Total (A+B)				158,335.49
D.	Output/day	160.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				158,335.49
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		15,833.55
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		12,666.84
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		9,341.79
J.	Total Unit Cost				285.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 103(2)b Bridge Excavation Below Ordinary Water Level

Unit of Measurement: cu.m.

Output per hour: 20.00

Quantity: 964.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	6.03	611.92	3,686.82
	b. Skilled Labor	1	6.03	443.20	2,670.28
	c. Unskilled Labor	2	6.03	342.24	4,123.99
Sub-total for A					P 10,481.09
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	6.03	12,296.00	74,083.40
	b. Dump Truck (12 cu.yd.)	2	6.03	11,360.00	136,888.00
	Minor Tools 10% of Labor				1,048.11
Sub-total for B					P 212,019.51
C.	Total (A+B)				222,500.60
D.	Output/day	160.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				222,500.60
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		22,250.06
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		17,800.05
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		13,127.54
J.	Total Unit Cost				285.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 400(4)a Precast Concrete Piles, Furnished

Unit of Measurement: In.m.

Output per hour: 8.75

Quantity: 1,880.00

20.00 meters/pile

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	26.86	611.92	16,434.42
b. Skilled Labor	4	26.86	443.20	47,612.34
c. Unskilled Labor	8	26.86	342.24	73,532.71
Formworks				
a. Skilled Labor	4	80.57	443.20	142,837.03
b. Unskilled Labor	8	80.57	342.24	220,598.13
Sub-total for A				P 501,014.63
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Concrete Vibrator	1	5.37	730.00	3,921.14
b. Plate Compactor	1	5.37	984.00	5,285.49
c. Bar Bender	1	10.74	2,812.00	30,208.91
d. Bar Cutter	1	10.74	1,758.00	18,885.94
Minor Tools 10% of Labor				50,101.46
Sub-total for B				P 108,402.95
C. Total (A+B)				609,417.58
D. Output/day	70.00	sq.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Ready Mix Concrete	313.96	cu.m.	4,530.00	1,422,238.80
b. Reinforcing Steel Bar	90,240.00	kg.	38.00	3,429,120.00
c. #16 G.I. Tie Wire (2% of RSB)	1,804.80	kg.	78.00	140,774.40
d. Forms	28,826.04	bd.ft.	37.00	1,066,563.48
e. Plywood Marine	503.84	pc.	880.00	443,379.20
f. Assorted CWN (1 kg./100 bd.ft. of Lumber)	315.84	kg.	50.00	15,792.00
Casting Bed				
a. Ready Mix Concrete	56.40	cu.m.	4,200.00	236,880.00
b. Coco Lumber	2,820.00	bd.ft.	15.00	42,300.00
c. Base Course (Crushed, Grading A)	56.40	cu.m.	939.40	52,982.16
Sub-total for E				P 6,850,030.04
F. Direct Cost (C + E)				7,459,447.62
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		745,944.76
H. Contractor's Profit (CP)		8% per D.O. 197, s. 2016		596,755.81
I. Value Added Tax (VAT)		5% per D.O. 197, s. 2016		440,107.41
J. Total Unit Cost				4,916.09

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 400(6) Structural Steel Sheet Piles, Furnished

Unit of Measurement: ln.m.

Output per hour: 48.00

Quantity: 2,178.00

9.00 m./pile; width = 0.60 m. for cofferdam

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	5.67	611.92	3,470.73
	b. Skilled Labor	2	5.67	443.20	5,027.55
	c. Unskilled Labor	2	5.67	342.24	3,882.29
Sub-total for A					P 12,380.57
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	5.67	20,848.00	118,247.25
Sub-total for B					P 118,247.25
C.	Total (A+B)				130,627.82
D.	Output/day	384.00	ln.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Steel Sheet Piles KSP II (delivered at site)	104,544.00	kg.	50.00	5,227,200.00
Sub-total for E					P 5,227,200.00
F.	Direct Cost (C + E)				5,357,827.82
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		535,782.78
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		428,626.23
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		316,111.84
J.	Total Unit Cost				3,047.91

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 400(12) Structural Steel Sheet Piles, Driven

Unit of Measurement: In.m.

Output per hour: 10.00

Quantity: 1,452.00

6.00 m./pile; width = 0.60 m. for Cofferdam

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	18.15	611.92	11,106.35
	b. Skilled Labor	6	18.15	443.20	48,264.48
	c. Unskilled Labor	6	18.15	342.24	37,269.94
Sub-total for A					P 96,640.76
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	18.15	20,848.00	378,391.20
	b. Vibro Hammer	1	18.15	16,984.00	308,259.60
	c. Gen. Set (876-1000 KVA)	1	18.15	10,373.36	188,276.48
	d. Welding Machine	1	18.15	2,968.00	53,869.20
	e. Cutting Outfit	1	9.08	363.60	3,299.67
Sub-total for B					P 932,096.15
C.	Total (A+B)				1,028,736.92
D.	Output/day	80.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Welding Rod (1 kg./2000 kg. of Steel Sheet Pile)	34.85	kg.	150.00	5,227.20
	b. Oxy/Acetylene (1 set/5000 kg. of Steel Sheet Pile)	13.94	set	2,500.00	34,848.00
Sub-total for E					P 40,075.20
F.	Direct Cost (C + E)				1,068,812.12
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		106,881.21
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		85,504.97
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		63,059.91
J.	Total Unit Cost				912.02

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 400(14) Precast Concrete Piles, Driven
Unit of Measurement: In.m.

Output per hour: 2.40

Quantity: 1,786.00

19.00 m./pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	93.02	611.92	56,921.31
	b. Skilled Labor	5	93.02	443.20	206,134.17
	c. Unskilled Labor	5	93.02	342.24	159,177.25
Sub-total for A					P 422,232.73
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	49.30	20,848.00	1,027,828.12
	b. Diesel Hammer (K25 or equivalent)	1	25.12	9,992.00	250,955.33
	c. Drop Hammer	1	12.09	1,600.00	19,348.33
	d. Cutting Outfit	1	18.60	363.60	6,764.48
	e. Jack Hammer	2	18.60	1,200.00	44,650.00
	f. Air Compressor (103 Hp)	1	18.60	7,720.00	143,624.17
	Minor Tools 10% of Labor				
Sub-total for B					P 1,493,170.42
C.	Total (A+B)				1,915,403.14
D.	Output/day	19.20	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Log	1,786.00	m.	350.00	625,100.00
	b. Good Lumber (Falsework)	28,576.00	bd.ft.	37.00	1,057,312.00
	c. Nail/Spike (1 kg./100 bd.ft. of Lumber)	285.76	kg.	68.00	19,431.68
	d. Oxygen/Acetylene	17.86	set	2,500.00	44,650.00
Sub-total for E					P 1,746,493.68
F.	Direct Cost (C + E)				3,661,896.82
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		366,189.68
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		292,951.75
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		216,051.91
J.	Total Unit Cost				2,540.36

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 400(16) Test Piles, Furnished and Driven (400 mm. x 400 mm.)

Unit of Measurement: In.m.

Output per hour: 6.00

Quantity: 80.00

20 m./pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.67	611.92	1,019.87
	b. Skilled Labor	6	1.67	443.20	4,432.00
	c. Unskilled Labor	6	1.67	342.24	3,422.40
Sub-total for A					P 8,874.27
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	0.88	20,848.00	18,415.73
	b. Diesel Hammer (K25 or equivalent)	1	0.45	9,992.00	4,496.40
	c. Drop Hammer	1	0.22	1,600.00	346.67
	d. Cutting Outfit	1	0.33	363.60	121.20
	e. Jack Hammer	2	0.33	1,200.00	800.00
	f. Air Compressor (103 Hp)	1	0.33	7,720.00	2,573.33
	Minor Tools 10% of Labor				
Sub-total for B					P 26,753.33
C.	Total (A+B)				35,627.60
D.	Output/day	48.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Log	136.00	m.	350.00	47,600.00
	b. Lumber (Falsework)	1,280.00	bd.ft.	37.00	47,360.00
	c. Nail/Spike (1 kg./100 bd.ft. of Lumber)	12.80	kg.	68.00	870.40
	d. Oxygen/Acetylene	4.00	set	2,500.00	10,000.00
	e. Fabricated R.C. Pile	80.00	m.	3,200.00	256,000.00
Sub-total for E					P 361,830.40
F.	Direct Cost (C + E)				397,458.00
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		39,745.80
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		31,796.64
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		23,450.02
J.	Total Unit Cost				6,155.63

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 401(2)a Concrete Railing
Unit of Measurement: In.m.
Output per hour: 0.63
Quantity: 100.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	20.00	611.92	12,238.40
	b. Skilled Labor	2	20.00	443.20	17,728.00
	c. Unskilled Labor	4	20.00	342.24	27,379.20
Sub-total for A					P 57,345.60
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Concrete Vibrator	1	5.00	730.00	3,650.00
	b. Bar Cutter	1	2.50	1,758.00	4,395.00
	c. Bar Bender	1	2.50	2,812.00	7,030.00
	d. Cutting Outfit	1	0.50	363.60	181.80
	Minor Tools 10% of Labor				5,734.56
Sub-total for B					P 20,991.36
C.	Total (A+B)				78,336.96
D.	Output/day	5.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ready Mix Concrete	17.30	cu.m.	4,530.00	78,369.00
	b. Reinforcing Steel Bar	2,480.00	kg.	38.00	94,240.00
	c. Plywood 1/2" x 4' x 8'	60.00	pc.	750.00	45,000.00
	d. Lumber	2,600.00	bd.ft.	37.00	96,200.00
	e. Assorted CWN (1 kg./100 bd.ft. of Lumber)	26.00	kg.	50.00	1,300.00
	f. Tie Wire (2% of RSB)	49.60	kg.	78.00	3,868.80
	g. Oxy/Acetylene (1 set/5000 kg. of steel)	0.50	set	2,500.00	1,250.00
Sub-total for E					P 320,227.80
F.	Direct Cost (C + E)				398,564.76
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		39,856.48
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		31,885.18
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		23,515.32
J.	Total Unit Cost				4,938.22

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 402(1) Timber Structures for Craneway

Unit of Measurement: span

Output per hour:

Quantity: 14.00

7.00 meters/span

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	33.00	611.92	20,193.36
	b. Skilled Labor	6	33.00	443.20	87,753.60
	c. Unskilled Labor	6	33.00	342.24	67,763.52
Sub-total for A					P 175,710.48
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane	1	8.25	20,848.00	171,996.00
	b. Drop Hammer	1	2.74	1,600.00	4,382.40
	c. Cargo Truck	1	2.74	9,696.00	26,557.34
	Minor Tools 10% of Labor				17,571.05
Sub-total for B					P 220,506.79
C.	Total (A+B)				396,217.27
D.	Output/day	-	span/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Trunks	190.00	pc.	950.00	180,500.00
	b. Coco Lumber - Floor Planks and Running Board	13,892.00	bd.ft.	15.00	208,380.00
	c. 25 mm. dia. x 400 mm. Machine Bolt w/ standard nuts and washer	57.00	kg.	150.00	8,550.00
	d. 25 mm. dia. Steel Bar	679.00	kg.	44.00	29,876.00
Sub-total for E					P 427,306.00
F.	Direct Cost (C + E)				823,523.27
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		82,352.33
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		65,881.86
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		48,587.87
J.	Total Unit Cost				72,881.81

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 404(1)a Reinforcing Steel, Grade 40

Unit of Measurement: kg.

Output per hour: 180.00

Quantity: 3,715.16

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.58	611.92	1,578.74
	b. Skilled Labor	2	2.58	443.20	2,286.89
	c. Unskilled Labor	8	2.58	342.24	7,063.76
Sub-total for A					P 10,929.38
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Service Crane (25 T, 145 Hp)	1	0.39	11,072.00	4,284.82
	b. Cargo Truck (10 T, 270 Hp)	1	0.39	9,696.00	3,752.31
	c. Bar Cutter	1	1.29	1,758.00	2,267.80
	d. Bar Bender	1	1.29	2,812.00	3,627.44
Sub-total for B					P 13,932.37
C.	Total (A+B)				24,861.75
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	78.02	kg.	78.00	6,085.43
	b. Reinforcing Steel Bar, Grade 40 (with 5% wastage)	3,900.92	kg.	38.00	148,234.88
Sub-total for E					P 154,320.32
F.	Direct Cost (C + E)				179,182.06
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		17,918.21
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		14,334.57
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		10,571.74
J.	Total Unit Cost				59.76

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 404(1)b Reinforcing Steel, Grade 60

Unit of Measurement: kg.

Output per hour: 320.00

Quantity: 96,261.98

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	37.60	611.92	23,009.62
	b. Leadman	2	37.60	561.36	42,216.89
	c. Skilled Labor	4	37.60	443.20	66,661.42
	d. Unskilled Labor	16	37.60	342.24	205,904.38
	use double gang of labor and equipment				
Sub-total for A					P 337,792.31
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Service Crane (25 T, 145 Hp)	2	5.64	11,072.00	124,899.92
	b. Cargo Truck (10 T, 270 Hp)	2	5.64	9,696.00	109,377.67
	c. Bar Cutter	2	18.80	1,758.00	66,104.91
	d. Bar Bender	2	18.80	2,812.00	105,737.77
Sub-total for B					P 406,120.27
C.	Total (A+B)				743,912.58
D.	Output/day	2,560.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	2,021.50	kg.	78.00	157,677.12
	b. Reinforcing Steel Bar, Grade 60 (with 5% wastage)	101,075.08	kg.	40.00	4,043,003.16
Sub-total for E					P 4,200,680.28
F.	Direct Cost (C + E)				4,944,592.86
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		494,459.29
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		395,567.43
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		291,730.98
J.	Total Unit Cost				63.64

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 405(1)b3 Structural Concrete, Class "A"

Unit of Measurement: cu.m.

Output per hour: 30.00

Quantity: 550.78

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.29	611.92	1,404.31
	b. Leadman	3	2.29	561.36	3,864.82
	c. Skilled Labor	12	2.29	443.20	12,205.28
	d. Unskilled Labor	24	2.29	342.24	18,849.89
	Installation & Removal of Formworks/Falsework				
	a. Const. Foreman	1	45.90	611.92	28,086.11
	b. Leadman	3	45.90	561.36	77,296.47
	c. Skilled Labor	12	45.90	443.20	244,105.70
	d. Unskilled Labor	24	45.90	342.24	376,997.89
	use triple gang of labor and equipment				
Sub-total for A				P	762,810.47
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	6	2.29	10,544.00	145,185.61
	b. Concrete Vibrator	6	2.29	730.00	10,051.74
	c. Batching Plant (30 cu.m.)	3	1.15	14,076.00	48,454.87
	d. Payloader (1.50 cu.m.), LX80-2C	3	1.15	13,864.00	47,725.09
	e. Water Truck (1000 gal.)	3	0.57	19,600.00	33,735.28
	f. Crane w/ Bucket	3	1.15	20,848.00	71,766.63
Sub-total for B				P	356,919.21
C.	Total (A+B)				1,119,729.68
D.	Output/day	240.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good - 4 uses	55,078.00	bd.ft.	37.00	509,471.50
	b. Plywood (1/2" x 4' x 8') - 4 uses	826.17	pc.	750.00	154,906.88
	c. Assorted CWN (1 kg./100 bd.ft. of Lumber)	550.78	kg.	50.00	27,539.00
	d. Cement	5,783.19	bag	269.00	1,555,678.11
	e. Sand	275.39	cu.m.	1,192.80	328,485.19
	f. Gravel	550.78	cu.m.	1,392.80	767,126.38
	g. Curing Compound	550.78	lit.	35.00	19,277.30
Sub-total for E				P	3,362,484.36
F.	Direct Cost (C + E)				4,482,214.04
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		448,221.40
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		358,577.12
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		264,450.63
J.	Total Unit Cost				10,082.91

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 406(1)a4 Prestressed Concrete AASHTO Girder (Type III)

Unit of Measurement: In.m.

Output per hour: 35.00

Quantity: 200.00

Prestressed Concrete AASHTO Girder (Type III)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	60.00	611.92	36,715.20
	b. Skilled Labor	8	60.00	443.20	212,736.00
	c. Unskilled Labor	6	60.00	342.24	123,206.40
Sub-total for A					P 372,657.60
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane w/ Bucket (45 T)	1	25.00	20,848.00	521,200.00
	b. Stressing (Jack) Machine	1	2.14	80,000.00	171,428.57
	c. Bar Cutter	1	7.86	1,758.00	13,812.86
	d. Bar Bender	1	7.86	2,812.00	22,094.29
	e. Cutting Outfit	1	0.46	363.60	166.22
	f. Concrete Vibrator	3	8.57	730.00	18,771.43
	g. Plate Compactor	1	2.50	984.00	2,460.00
Sub-total for B					P 749,933.36
C.	Total (A+B)				1,122,590.96
D.	Output/day	280.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Prestressed Concrete AASHTO Girder Type III	200.00	In.m.	18,000.00	3,600,000.00
Sub-total for E					P 3,600,000.00
F.	Direct Cost (C + E)				4,722,590.96
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		472,259.10
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		377,807.28
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		278,632.87
J.	Total Unit Cost				29,256.45

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 407(8) Lean Concrete
 Unit of Measurement: cu.m.
 Output per hour: 1.40
 Quantity: 18.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.61	611.92	983.44
	b. Skilled Labor	1	1.61	443.20	712.29
	c. Unskilled Labor	2	1.61	342.24	1,100.06
Sub-total for A				P	2,795.79
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	1.61	1,376.00	2,211.43
	b. Concrete Vibrator	1	1.61	730.00	1,173.21
	c. Water Truck	1	0.16	19,600.00	3,150.00
Sub-total for B				P	6,534.64
C.	Total (A+B)				9,330.43
D.	Output/day	11.20	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	171.00	bag	269.00	45,999.00
	b. Sand	9.00	cu.m.	1,192.80	10,735.20
	c. Gravel	18.00	cu.m.	1,392.80	25,070.40
Sub-total for E				P	81,804.60
F.	Direct Cost (C + E)				91,135.03
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		9,113.50
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		7,290.80
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		5,376.97
J.	Total Unit Cost				6,273.13

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 412(1) Elastomeric Bearing Pad
 Unit of Measurement: each
 Output per hour: 1.00
 Quantity: 8.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.16	611.92	97.91
	b. Unskilled Labor	2	0.16	342.24	109.52
Sub-total for A				P	207.42
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Wood/Steel Ladder	1	1.00	800.00	800.00
Sub-total for B				P	800.00
C.	Total (A+B)				1,007.42
D.	Output/day	8.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Elastomeric Bearing Pad	8.00	each	16,150.00	129,200.00
	Miscellaneous 10% of Labor				20.74
Sub-total for E				P	129,220.74
F.	Direct Cost (C + E)				130,228.17
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	13,022.82
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	10,418.25
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	7,683.46
J.	Total Unit Cost				20,169.09

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 414 Forms and Falsework

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	10.00	611.92	6,119.20
	b. Skilled Labor	6	10.00	443.20	26,592.00
	c. Unskilled Labor	6	10.00	342.24	20,534.40
Sub-total for A					P 53,245.60
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cutting Outfit	1	3.00	363.60	1,090.80
	Minor Tools 10% of Labor				5,324.56
Sub-total for B					P 6,415.36
C.	Total (A+B)				59,660.96
D.	Output/day	-			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. 63 mm. dia. G.I. Pipes	400.00	pc.	1,885.00	754,000.00
	b. 63 mm. dia. C-Clamps	1,250.00	pc.	54.00	67,500.00
	c. #16 G.I. Tie Wire	15.00	kg.	78.00	1,170.00
	d. Oxy/Acetylene	1.00	set	2,500.00	2,500.00
Sub-total for E					P 825,170.00
F.	Direct Cost (C + E)				884,830.96
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		88,483.10
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		70,786.48
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		52,205.03
J.	Total Unit Cost				1,096,305.56

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 505(5) Grouted Riprap, Class A

Unit of Measurement: cu.m.

Output per hour: 3.75

Quantity: 664.00

For Approach Slab Slope Protection

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	22.13	611.92	13,543.83
	b. Leadman	3	22.13	561.36	37,274.30
	c. Skilled Labor	6	22.13	443.20	58,856.96
	d. Unskilled Labor	24	22.13	342.24	181,797.89
	use triple gang of labor and equipment				
Sub-total for A					P 291,472.98
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	3	22.13	1,376.00	91,366.40
	b. Water Truck/Pump (16000 L)	3	1.11	19,600.00	65,072.00
	Minor Tools 5% of Labor				14,573.65
Sub-total for B					P 171,012.05
C.	Total (A+B)				462,485.03
D.	Output/day	30.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	1,992.00	bag	269.00	535,848.00
	b. Sand	166.00	cu.m.	1,192.80	198,004.80
	c. Gravel	9.96	cu.m.	1,392.80	13,872.29
	d. Weep Holes (PVC)	199.20	m.	101.67	20,252.00
	e. Filter Cloth	9.96	sq.m.	160.00	1,593.60
	f. Boulders (15 - 25 kg.)	697.20	cu.m.	1,201.40	837,616.08
	Miscellaneous 1% of Materials Cost				16,071.87
Sub-total for E					P 1,623,258.64
F.	Direct Cost (C + E)				2,085,743.67
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		208,574.37
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		166,859.49
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		123,058.88
J.	Total Unit Cost				3,891.92

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 612(1) Reflectorized Thermoplastic Pavement Markings (White)

Unit of Measurement: sq.m.

Output per hour: 25.00

Quantity: 36.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.18	611.92	110.15
	b. Skilled Labor	2	0.18	443.20	159.55
	c. Unskilled Labor	6	0.18	342.24	369.62
Sub-total for A					P 639.32
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck/Delivery Truck (2-5 mt)	1	0.18	6,264.00	1,127.52
	b. Applicator Machine	1	0.18	750.00	135.00
	c. Kneading Machine	1	0.18	1,500.00	270.00
	Minor Tools 10% of Labor				63.93
Sub-total for B					P 1,596.45
C.	Total (A+B)				2,235.77
D.	Output/day	200.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Thermoplastic Paint (White)	11.70	bag	1,585.00	18,544.50
	b. Glass Beads	1.19	bag	2,500.00	2,970.00
	c. Primer	4.32	L	160.00	691.20
	d. LPG (50 kg)	0.14	cyl.	3,450.00	496.80
	e. LPG (12 kg)	0.07	cyl.	828.00	59.62
	f. Calsumine	4.50	kg.	30.00	135.00
	Miscellaneous 5% of Materials Cost				1,144.86
Sub-total for E					P 24,041.97
F.	Direct Cost (C + E)				26,277.74
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,627.77
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,102.22
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,550.39
J.	Total Unit Cost				904.39

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: A.1.1(1) Construction of Field Office for the Engineer

Unit of Measurement: L.S.

Output per hour:

Quantity: 1.00

For Government Field Office

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.00	611.92	4,895.36
	b. Mason	3	8.00	443.20	10,636.80
	c. Carpenter	3	8.00	443.20	10,636.80
	d. Laborer	6	8.00	342.24	16,427.52
Sub-total for A					P 42,596.48
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	6.00		-
	b. Water Truck	1	1.00		-
	Minor Tools 10% of Labor				4,259.65
Sub-total for B					P 4,259.65
C.	Total (A+B)				46,856.13
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	I. Earthworks (Excavation, Embankment, Bedding)				
	a. Gravel Bedding	3.50	cu.m.	1,392.80	4,874.80
	b. Selected Fill	10.00	cu.m.	569.40	5,694.00
	c. Soil Poisoning	2.50	L	1,900.00	4,750.00
	II. Concrete Works (Footing, Columns, Beams & Slab on Grade)				
	a. Portland Cement	90.00	bag	269.00	24,210.00
	b. Crushed Gravel	21.00	cu.m.	1,392.80	29,248.80
	c. Washed Sand	18.00	cu.m.	1,192.80	21,470.40
	III. Reinforcing Bars(Footing Columns, Beams, & Slabs on Grade)				
	a. Deformed Round Bar, Grade 40	435.00	kg.	38.00	16,530.00
	b. No. 16 GI Tie Wire	20.00	kg.	78.00	1,560.00
	IV. Formworks (Columns & Beams)				
	a. Coco Lumber	400.00	bd.ft.	15.00	6,000.00
	b. Ordinary Plywood, 1/4"x4'x8'	18.00	pc.	385.00	6,930.00
	c. CWN, Assorted	5.00	kg.	50.00	250.00
	V. Masonry Works (masonry walls & plastering)				
	a. CHB 6" thk	650.00	pc.	16.00	10,400.00
	b. Portland Cement	45.00	bag	269.00	12,105.00
	c. Washed Sand	8.00	cu.m.	1,192.80	9,542.40
	d. 10mm dia. X 6m RSB	65.00	kg.	38.00	2,470.00
	e. No. 16 GI Tie Wire	2.50	kg.	78.00	195.00
	VI. Doors and Windows				
	a. D-1, Hollow Core Flush Type swing door, complete w/ accessories, 0.90m x 2.1m	2.00	set	1,765.26	3,530.52
	b. W-1, Jalousie window, 1.4m x 1.2m	2.00	set	924.00	1,848.00
	c. W-2, Jalousie window, 2.8m x 1.2m	2.00	set	1,848.00	3,696.00
Sub-total for E					P 165,304.92
Sub-total for E (I + II + III)					P 314,205.85
F.	Direct Cost (C + E)				361,061.98
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		36,106.20
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		28,884.96
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		21,302.66
J.	Total Unit Cost				447,355.79

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

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

For Government Field Office

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)				-
Sub-total for B				P -
C. Total (A+B)				-
D. Output/day	-	L.S./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
VII. Steel Works				
a. 65 x 65 x 6mm. L	350.00	kg.	48.00	16,800.00
b. 50 x 50 x 6mm. L	250.00	kg.	48.00	12,000.00
c. 50 x 50 x 4mm. L	100.00	kg.	48.00	4,800.00
d. Purlins C- 150 x 50 x 3mm.	18.00	kg.	48.00	864.00
e. 16mm dia. Cross bracing	35.00	kg.	38.00	1,330.00
f. 16mm dia. Turn buckle	20.00	pc.	118.00	2,360.00
g. 12mm thk base plate	25.00	kg.	47.00	1,175.00
h. 10mm thk batten plate	15.00	kg	47.00	705.00
i. 10mm dia. Sag rod	10.00	kg.	38.00	380.00
j. 20mm dia. X 350 mm anchor bolts	10.00	pc.	36.00	360.00
k. Welding Rod	15.00	kg.	149.00	2,235.00
l. Primer, Zinc Cromate	5.00	gal.	531.00	2,655.00
VIII Roofing Works				
a. Pre-painted GI Roofing Sheet long span	55.00	sq.m.	420.00	23,100.00
b. Pre-painted ridge roll ga 24, 0.60m width	10.00	ln.m.	189.00	1,890.00
c. Pre-painted flashing, ga. 24	2.00	ln.m.	189.00	378.00
d. Teckscrew 1 1/2"	1,000.00	pc.	1.25	1,250.00
e. Roof Sealant	2.00	L	242.84	485.68
IX. Carpentry Works				
a. Rough Lumber, sun dried tanguile	500.00	bd.ft.	37.00	18,500.00
b. Plywood, ordinary 1/4" x 4' x 8'	30.00	pc.	350.00	10,500.00
c. Finishing Nails	5.00	kg.	90.00	450.00
d. Common Wire Nails	10.00	kg.	50.00	500.00
e. Wood Preservative Brown	5.00	L	398.00	1,990.00
Sub-total for E				P 104,707.68
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		
J. Total Unit Cost				

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

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

For Government Field Office

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)				
Sub-total for B			P	-
C. Total (A+B)				-
D. Output/day	-	L.S./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
X. Electrical Works				
a. 2 x 40w Flourescent lighting fixtures	5.00	set	1,030.00	5,150.00
b. Porcelain Ceiling Outlet w/ female socket	2.00	pc	50.00	100.00
c. Duplex Convinience outlet	3.00	pc	170.00	510.00
d. two gang switch	3.00	pc	132.00	396.00
e. 3.5mm2 thw	3.00	roll	3,600.00	10,800.00
f. 8.00mm2 thw	25.00	m	69.33	1,733.25
g. 15mm dia. PVC pipe	20.00	pc	73.00	1,460.00
h. 15mm dia. PVC Coupling	25.00	pc	16.00	400.00
i. 15mm dia. PVC Elbow	25.00	pc	26.00	650.00
j. 15mm dia. PVC Clamp	55.00	pc	8.00	440.00
k. 20mm dia. RSC Pipe	4.00	pc	240.00	960.00
l. 20mm dia. RSC Coupling	3.00	pc	36.00	108.00
m. 20mm dia. RSC elbow	3.00	pc	30.00	90.00
n. 20mm dia. RSC Clamp	10.00	pc	18.00	180.00
o. 20mm dia. Service entrance cap	2.00	pc	100.00	200.00
p. wire holder	2.00	pc	50.00	100.00
q. utility box	7.00	pc	32.00	224.00
r. octagonal box	8.00	pc	34.00	272.00
s. electrical tape (big)	7.00	pc	31.00	217.00
t. panel board (side main w/ braches)	2.00	set	1,627.00	3,254.00
XI. Plumbing Works				
a. Water Closet (include. Fitting & Accessories)	1.00	set	7,353.00	7,353.00
b. Lavatory (include fitting & Accessories)	1.00	set	6,615.00	6,615.00
c. 1/2" GI Pipe S-40	2.00	pc	321.00	642.00
d. 1/2" Water Faucet	2.00	pc	166.00	332.00
e. 1/2" Assorted Connector	8.00	pc	19.00	152.00
f. 4" PVC series 1000	1.00	pc	640.00	640.00
g. 2" PVC series 1000	1.00	pc	305.00	305.00
h. 4" PVC assorted Connector	6.00	pc	77.00	462.00
i. 2" PVC assorted Connector	8.00	pc	56.00	448.00
Sub-total for E			P	44,193.25
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		
J. Total Unit Cost				

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: A.1.1(11) Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer

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)				
Sub-total for B				P -
C. Total (A+B)				-
D. Output/day	-	L.S./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Office Equipment/Facilities & Supplies				
Electric Desk Fan	1.00	unit	1,370.00	1,370.00
Folding Beds, Good Quality pillows w/ pillow cases, fitted sheets and blanket	2.00	each	2,700.00	5,400.00
Double burner gas stove (Gasul)	2.00	each	5,000.00	10,000.00
10 cups Rice Cooker	1.00	unit	3,700.00	3,700.00
Aluminum Cookware	1.00	unit	2,500.00	2,500.00
Plate, Glass, Spoon and fork	1.00	set	3,500.00	3,500.00
6 seater dining table	1.00	dozen	2,000.00	2,000.00
Monoblock w/ Backrest chair	1.00	each	2,800.00	2,800.00
Plastic Pail & Basin	2.00	dozen	2,500.00	5,000.00
White Board	2.00	pc.	250.00	500.00
Bond Paper (Long)	1.00	Unit	3,000.00	3,000.00
Bond Paper (Short)	20.00	ream	300.00	6,000.00
Yellow Pad	20.00	ream	270.00	5,400.00
White Board Marker	6.00	pad	35.00	210.00
Sign Pen (assorted color)	10.00	pc.	75.00	750.00
Ballpen (assorted color)	2.00	dozen	580.00	1,160.00
Mechanical Pencil	4.00	box	180.00	720.00
Pencil Lead, No. 5	6.00	unit	350.00	2,100.00
Puncher	4.00	box	145.00	580.00
Staple Pad w/ wire	1.00	unit	250.00	250.00
Cutter Blade	2.00	unit	275.00	550.00
Scotch Tape	2.00	box	240.00	480.00
Brown Envelop	10.00	roll	45.00	450.00
Folder, Long	7.00	dozen	125.00	875.00
Folder, Short	7.00	dozen	85.00	595.00
Data File Folder	7.00	dozen	70.00	490.00
Digital Camera	12.00	pc.	85.00	1,020.00
Cellphone	1.00	set	9,089.41	9,089.41
Lighting/Water Fixtures				
a. Electrical Bill	1.00	set	10,000.00	10,000.00
b. Water Bill	11.17	mos.	3,000.00	33,500.00
c. LPG (11 kg)	11.17	mos.	1,500.00	16,750.00
	11.17	mos.	1,000.00	11,166.67
Sub-total for E				P 141,906.08
F. Direct Cost (C + E)				141,906.08
G. Overhead, Contingencies and Miscellaneous		0% per D.O. 197, s. 2016		-
H. Contractor's Profit (CP)		8% per D.O. 197, s. 2016		11,352.49
I. Value Added Tax (VAT)		5% per D.O. 197, s. 2016		7,662.93
J. Total Unit Cost				160,921.49

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: B.5 Project Billboard/Signboard

Unit of Measurement: each

Output per hour:

Quantity: 2.00

Per D.O. 141, s. 2016

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 Labor	1	2.00	443.20	886.40
	c. Unskilled Labor	2	2.00	342.24	1,368.96
Sub-total for A					P 3,479.20
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
Sub-total for B					P -
C.	Total (A+B)				3,479.20
D.	Output/day	-	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ordinary Plywood 1/2" thk. x 4' x 8'	2.00	pc.	690.00	1,380.00
	b. Tarpaulin (4' x 8')	2.00	pc.	800.00	1,600.00
	c. Assorted Lumber	100.00	bd.ft.	37.00	3,700.00
	d. Assorted CW Nails	2.00	kg.	50.00	100.00
Sub-total for E					P 6,780.00
F.	Direct Cost (C + E)				10,259.20
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,025.92
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		820.74
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		605.29
J.	Total Unit Cost				6,355.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: B.7 Occupation Safety and Health Program

Unit of Measurement: month

Output per hour:

Quantity: 11.17

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Safety Practioner	1	335.00	611.92	204,993.20
	b. First Aider	1	168.00	443.20	74,457.60
	c. Flagman (2 per shift)	6	335.00	342.24	687,902.40
Sub-total for A					P 967,353.20
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Warning Signs and Barricades				30,000.00
Sub-total for B					P 30,000.00
C.	Total (A+B)				997,353.20
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Rubber Boots (Long w/ steel toe, Black)	24.00	pair	400.00	9,600.00
	b. Working Gloves (Maong Material)	24.00	pair	15.00	360.00
	c. Rain Coats (Reinforced, Hip Lenth)	18.00	pc.	100.00	1,800.00
	d. Safety Hats	24.00	pc,	600.00	14,400.00
Sub-total for E					P 26,160.00
F.	Direct Cost (C + E)				1,023,513.20
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		81,881.06
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		55,269.71
J.	Total Unit Cost				103,940.06

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: A.1.2(5) Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer
 Unit of Measurement: month

Output per hour:

Quantity: 11.18

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Driver	1	335	422.32	141,646.13
Sub-total for A					P 141,646.13
Name and Capacity		No. of Equipment	No. of Months	Monthly Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
Sub-total for B					P -
C.	Total (A+B)				141,646.13
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Diesel	3,354.00	L	31.00	103,974.00
	b. Spare Parts	1.00	L.S.	50,000.00	50,000.00
	c. Engine Oil & Lubricants	1.00	L.S.	15,596.10	15,596.10
	d. Miscellaneous	1.00	L.S.	45,000.00	45,000.00
Sub-total for E					P 214,570.10
F.	Direct Cost (C + E)				356,216.23
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H.	Contractor's Profit (CP)		per D.O. 197, s. 2016		-
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		17,810.81
J.	Total Unit Cost				33,455.01

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: B.9 Mobilization & Demobilization
 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	1	2.00	34,043.00	68,086.00
b. Water Truck	1	2.00	19,600.00	39,200.00
c. Backhoe	2	2.00	12,296.00	49,184.00
d. Payloader	1	2.00	13,864.00	27,728.00
Sub-total for B			P	184,198.00
C. Total (A+B)				184,198.00
D. Output/day	-	L.S./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E			P	-
F. Direct Cost (C + E)				184,198.00
G. Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H. Contractor's Profit (CP)		per D.O. 197, s. 2016		-
I. Value Added Tax (VAT)		5% per D.O. 197, s. 2016		9,209.90
J. Total Unit Cost				193,407.90

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: B.4(1) Construction Survey & Staking
 Unit of Measurement: km.
 Output per hour: 0.04
 Quantity: 0.180

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
For Field Works				
a. Geodetic Engineer	1	0.56	833.31	468.74
b. Skilled Laborer	3	0.56	443.20	747.90
c. Laborer	3	0.56	342.24	577.53
For Office Works				
a. Geodetic Engineer	1	1.69	833.31	1,406.21
b. Skilled Laborer	2	1.69	443.20	1,495.80
Sub-total for A				P 4,696.18
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Total Station w/ complete accessories	1	0.56	800.00	450.00
Minor Tools 10% of Labor				469.62
Sub-total for B				P 919.62
C. Total (A+B)				5,615.80
D. Output/day	0.32	km./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Standard Stake Plan (800 mm x 910 mm)	20.00	pc	400.00	8,000.00
b. Blue Printing	100.00	pc	15.00	1,500.00
Miscellaneous 5% of Materials Cost				475.00
Sub-total for E				P 9,975.00
F. Direct Cost (C + E)				15,590.80
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,559.08
H. Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,247.26
I. Value Added Tax (VAT)		5% per D.O. 197, s. 2016		919.86
J. Total Unit Cost				107,316.64

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 403(5) Structural Steel, Furnished, Fabricated and Erected

Unit of Measurement: kg.

Output per hour: 245.25

Quantity: 1,247.75

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.64	611.92	389.16
	b. Leadman	1	0.64	561.36	357.00
	c. Skilled Labor	4	0.64	443.20	1,127.43
	d. Unskilled Labor	8	0.64	342.24	1,741.20
Sub-total for A					P 3,614.79
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane	1	0.64	20,848.00	13,258.46
	b. Drop Hammer	1	0.51	1,600.00	814.03
	c. Welding Machine	1	0.45	2,968.00	1,321.27
	d. Generator Set (1401 - 1500 KW)	1	0.45	21,902.16	9,750.20
	e. Cutting Outfit	2	0.45	363.60	323.73
	Minor Tools 10% of Labor				361.48
Sub-total for B					P 25,829.16
C.	Total (A+B)				29,443.94
D.	Output/day	1,962.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Structural Steel (imported) (including fabrication, galvanization, pre-trial, assembly, hauling & erection cast)	1,247.75	kg.	162.93	203,295.91
	Structural Steel Support				
	b. 1 - I Beam x 10.0 m.	81.10	kg.	50.00	4,055.19
	c. 2 - Tubular Pipe 0.35 mm Ø x 10.0 m.	1.02	m.	950.75	972.76
	d. 4 - RSB 30 mm. Ø x 12.0 m.	19.96	kg.	38.00	758.63
	e. Welding Rod (1 kg./2000 kg. of Steel)	0.62	kg.	150.00	93.58
	f. Oxy/Acetylene (1 kg./5000 kg. of Steel)	0.25	set	2,500.00	623.88
Sub-total for E					P 209,799.95
F.	Direct Cost (C + E)				239,243.89
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 22 s 2015		23,924.39
H.	Contractor's Profit (CP)		8% per D.O. 22 s 2015		19,139.51
I.	Value Added Tax (VAT)		5% per D.O. 22 s 2015		14,115.39
J.	Total Unit Cost				237.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 508(1) Handlaid Rock Embankment

Unit of Measurement: cu.m.

Output per hour: 3.13

Quantity: 275.65

For Slope Protection & Headwall apron

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	11.03	611.92	6,747.03
c. Skilled Labor	6	11.03	443.20	29,320.34
d. Unskilled Labor	24	11.03	342.24	90,564.92
use triple gang of labor and equipment				
Sub-total for A				P 126,632.29
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
Minor Tools 10% of Labor				12,663.23
Sub-total for B				P 12,663.23
C. Total (A+B)				139,295.52
D. Output/day	25.00	cu.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Boulders	289.43	cu.m.	1,201.40	347,724.21
Sub-total for E				P 347,724.21
F. Direct Cost (C + E)				487,019.72
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		48,701.97
H. Contractor's Profit (CP)		8% per D.O. 197, s. 2016		38,961.58
I. Value Added Tax (VAT)		5% per D.O. 197, s. 2016		28,734.16
J. Total Unit Cost				2,189.07

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 612(2) ReflectORIZED Thermoplastic Pavement Markings (Yellow)
 Unit of Measurement: sq.m.
 Output per hour: 25.00
 Quantity: 27.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.14	611.92	82.61
	b. Skilled Labor	2	0.14	443.20	119.66
	c. Unskilled Labor	6	0.14	342.24	277.21
Sub-total for A					P 479.49
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck/Delivery Truck (2-5 mt)	1	0.14	6,264.00	845.64
	b. Applicator Machine	1	0.14	750.00	101.25
	c. Kneading Machine	1	0.14	1,500.00	202.50
	Minor Tools 10% of Labor				47.95
Sub-total for B					P 1,197.34
C.	Total (A+B)				1,676.83
D.	Output/day	200.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Thermoplastic Paint (Yellow)	11.70	bag	1,585.00	18,544.50
	b. Glass Beads	1.19	bag	2,500.00	2,970.00
	c. Primer	4.32	L	160.00	691.20
	d. LPG (50 kg)	0.14	cyl.	3,450.00	496.80
	e. LPG (12 kg)	0.07	cyl.	828.00	59.62
	f. Calsumine	4.50	kg.	30.00	135.00
	Miscellaneous 5% of Materials Cost				1,144.86
Sub-total for E					P 24,041.97
F.	Direct Cost (C + E)				25,718.80
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,571.88
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,057.50
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,517.41
J.	Total Unit Cost				1,180.21

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 101(3)a4 Removal of Structures/Obstructions

Unit of Measurement: sq.m.

Output per hour: 40.00

Quantity: 64.00

**Existing Bridge Approach slabs
(Reinforced)**

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.20	611.92	122.38
	b. Unskilled Labor	2	0.20	342.24	136.90
Sub-total for A					P 259.28
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Pavement Breaker (0.80 m3)	1	0.20	15,984.80	3,196.96
	b. Payloader (1.50 cu.m.), LX80-2C	1	0.20	13,864.00	2,772.80
	c. Dump Truck (12 yd3)	1	0.10	11,360.00	1,136.00
	Minor Tools 10% of Labor				25.93
Sub-total for B					P 7,131.69
C.	Total (A+B)				7,390.97
D.	Output/day	320.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				7,390.97
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		739.10
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		591.28
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		436.07
J.	Total Unit Cost				143.08

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 101(3)b5 Removal of Structures/Obstructions

Unit of Measurement: sq.m.

Output per hour: 40.00

Quantity: 60.00

Existing PCC Pavements

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.19	611.92	114.74
	b. Unskilled Labor	2	0.19	342.24	128.34
Sub-total for A					P 243.08
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Pavement Breaker (0.80 m3)	1	0.19	15,984.80	2,997.15
	b. Payloader (1.50 cu.m.), LX80-2C	1	0.19	13,864.00	2,599.50
	c. Dump Truck (12 yd3)	1	0.09	11,360.00	1,065.00
	Minor Tools 10% of Labor				24.31
Sub-total for B					P 6,685.96
C.	Total (A+B)				6,929.03
D.	Output/day	320.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				6,929.03
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		692.90
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		554.32
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		408.81
J.	Total Unit Cost				143.08

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 101(7)a Removal of Structures/Obstructions

Unit of Measurement: kg.

Output per hour: 1,000.00

Quantity: 70,000.00

Existing Steel Bridge

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.75	611.92	5,354.30
	b. Skilled Labor	2	8.75	443.20	7,756.00
	c. Unskilled Labor	4	8.75	342.24	11,978.40
Sub-total for A					P 25,088.70
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Service Truck/Cargo Truck	1	8.75	9,696.00	84,840.00
	b. Welding Machine	1	8.75	3,128.00	27,370.00
	c. Truck Mounted Crane (35T)	1	8.75	14,888.00	130,270.00
	d. Cutting Outfit	1	8.75	363.60	3,181.50
	Minor Tools 10% of Labor				2,508.87
Sub-total for B					P 248,170.37
C.	Total (A+B)				273,259.07
D.	Output/day	8,000.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Oxy/Acetylene	17.50	set	2,500.00	43,750.00
	b. Welding Rod	140.00	kg	90.00	12,600.00
	c. Rope 1" dia.	3,500.00	m.	3.50	12,250.00
Sub-total for E					P 68,600.00
F.	Direct Cost (C + E)				341,859.07
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		34,185.91
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		27,348.73
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		20,169.69
J.	Total Unit Cost				6.05

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 101(6)a Removal of Structures/Obstructions

Unit of Measurement: cu.m.

Output per hour: 1.00

Quantity: 81.21

Existing Abutment (Including Backwall & Wingwall)

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	10.15	611.92	6,211.75
b. Skilled Labor	2	10.15	443.20	8,998.07
c. Unskilled Labor	4	10.15	342.24	13,896.66
Sub-total for A				P 29,106.48
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Backhoe w/ Breaker (0.80 cu.m.)	1	5.08	15,984.80	81,132.85
b. Jackhammer	2	10.15	1,200.00	24,363.00
c. Air Compressor (356-450 cfm)	1	10.15	7,720.00	78,367.65
d. Dump Truck	1	1.27	11,360.00	14,414.78
e. Payloader (1.50 cu.m.)	1	1.27	13,864.00	17,592.12
f. Truck Mounted Crane (35 T)	1	2.54	14,888.00	37,782.95
g. Cutting Outfit	1	10.15	363.60	3,690.99
Sub-total for B				P 257,344.34
C. Total (A+B)				286,450.81
D. Output/day	8.00	kg./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Oxy/Acetylene	8.12	set	2,500.00	20,302.50
Sub-total for E				P 20,302.50
F. Direct Cost (C + E)				306,753.31
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		30,675.33
H. Contractor's Profit (CP)		8% per D.O. 197, s. 2016		24,540.27
I. Value Added Tax (VAT)		5% per D.O. 197, s. 2016		18,098.45
J. Total Unit Cost				4,680.06

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

Item No./Description: 101(6)b Removal of Structures/Obstructions

Unit of Measurement: cu.m.

Output per hour: 10.00

Quantity: 700.00

Existing Slope Protection at Abutments

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.75	611.92	5,354.30
	b. Unskilled Labor	2	8.75	342.24	5,989.20
Sub-total for A					P 11,343.50
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Breaker (0.80 cu.m.)	1	4.38	15,984.80	69,933.50
	b. Backhoe (0.80 cu.m.) - for loading	1	4.38	12,296.00	53,795.00
	d. Dump Truck	1	8.75	11,360.00	99,400.00
Sub-total for B					P 223,128.50
C.	Total (A+B)				234,472.00
D.	Output/day	80.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Oxy/Acetylene	8.12	set	2,500.00	20,302.50
Sub-total for E					P 20,302.50
F.	Direct Cost (C + E)				254,774.50
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		25,477.45
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		20,381.96
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		15,031.70
J.	Total Unit Cost				450.95

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan,
Zamboanga del Sur

Item No./Description: 507(1) Rubble Concrete
Unit of Measurement: cu.m.
Output per hour: 1.40
Quantity: 137.56

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	12.28	611.92	7,515.69
	b. Skilled Labor	2	12.28	443.20	10,886.89
	c. Unskilled Labor	8	12.28	342.24	33,627.52
Sub-total for A					P 52,030.10
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	3	12.28	1,376.00	50,700.69
	b. Water Truck/Pump (16000 L)	3	0.61	19,600.00	36,109.50
	c. Backhoe (Wheel Type 0.28 m ³)	3	1.23	7,376.00	27,177.93
	Minor Tools 10% of Labor				5,203.01
Sub-total for B					P 119,191.12
C.	Total (A+B)				171,221.23
D.	Output/day	11.20	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	577.75	bag	269.00	155,415.29
	b. Sand	36.11	cu.m.	1,192.80	43,071.41
	c. Gravel Fill	2.75	cu.m.	1,392.80	3,831.87
	d. Weep Holes (PVC)	41.27	m.	101.67	4,195.58
	e. Filter Cloth	2.06	sq.m.	160.00	330.14
	f. Boulders (15 - 25 kg.)	86.66	cu.m.	1,201.40	104,116.69
	g. Gravel	72.22	cu.m.	1,392.80	100,586.62
	Miscellaneous 1% of Materials Cost				3,109.61
Sub-total for E					P 414,657.22
F.	Direct Cost (C + E)				585,878.44
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		58,587.84
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		46,870.28
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		34,566.83
J.	Total Unit Cost				5,276.99

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur

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

Unit of Measurement: sq.m.

Output per hour: 300.00

Quantity: 325.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor			
	a. Const. Foreman	1	611.92	82.86
	b. Unskilled Labor	2	342.24	92.69
Sub-total for A				P 175.55
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)			
	a. Motorized Road Grader (140 hp), G710A	1	17,384.00	2,354.08
	b. Vibratory Roller (10 mt), SD100DC	1	14,768.00	1,999.83
	c. Water Truck/Pump (16000 L)	1	19,600.00	663.54
Sub-total for B				P 5,017.46
C.	Total (A+B)			5,193.01
D.	Output/day	2,400.00	cu.m./day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials			
Sub-total for E				P -
F.	Direct Cost (C + E)			5,193.01
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016	519.30
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016	415.44
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016	306.39
J.	Total Unit Cost			19.80

Republic of the Philippines
Department of Public Works and Highways

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

PROGRAM OF WORK

(For all types of Project)

Date : May 11, 2017

NAME OF PROJECT : Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road Lapuyan, Zamboanga del Sur	Appropriation : P 60,840,000.00 Source of Funds : CY-2017 GAA Issued Obligated Authority : Released : Cal. Days to Complete : 335 Calendar Days Desirable Starting Date : upon approval Mode of Implementation : by contract
LOCATION: Zamboanga del Sur	
PROJECT CATEGORY : NATIONAL ROAD	
PROJECT DESCRIPTION : Scope of Work : Bridge Road Width : 6.70 m. Roadbed Width : 12.00 m. Subbase Course : 0.30 m. thk. Surface Course : 0.28 m. thk. , shoulder 0.15 m. thk.	Limits: Beg. of Proj. 0+140.00 Abutment A 0+210.00 Abutment B 0+260.84 End of Proj. 0+320.00 Approaches Net Length: 129.16 In.m. Bridge Length: 50.84 In.m.
Length: 70.00 m. 50.84 m. 59.16 m.	

MINIMUM EQUIPMENT REQUIREMENT : TECHNICAL PERSONNEL REQUIRED :

Description	No.	Description	No.	Description	No.
Dump Truck	12	Water Pump	1	Project Engineer	1
Transi Mixer	4	Concrete Screeder	1	Materials Engineer	1
Bulldozer	2	Concrete Vibrator	3	Geometric Surveyor	1
Backhoe	3	Concrete Cutter	2	Foreman	1
Road Grader	2	Bar Cutter	1	Materials Lab. Tech.	1
Road Roller	2	Bar Bender	1	Mason	12
Payloader	4	One Bagger Mixer	2	Carpenter	8
Water Truck	2	Batching Plant	1	Laborers (Skilled)	20
Water Tank	2	Plate Compactor	1	Laborers (Unskilled)	30
Kneading Machine	1	Cargo Truck	1	Safety Practitioner	1
Applicator Machine	1	Diesel Hammer	1		
Truck Mounted Crane	1	Drop Hammer	1		
Gen. Set (876 - 1000 KVA)	1	Jack Hammer	2		
Gen. Set (1401 - 1500 KW)	1	Service Crane	1		
Welding Machine	1	Air Compressor	1		
Stressing (Jack) Machine	1	Crane with Bucket	1		

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART A - FACILITIES FOR THE ENGINEER						
A.1.1(1)	Construction of Field Office for the Engineer	0.77	L.S.	1.00	361,061.98	361,061.98
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	0.30	L.S.	1.00	141,906.08	141,906.08
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	0.76	month	11.18	356,216.23	31,861.92
PART B - OTHER GENERAL REQUIREMENTS						
B.4(1)	Construction Survey & Staking	0.03	km.	0.18	15,590.80	86,615.53
B.5	Project Billboard/Signboard	0.02	each	2.00	10,259.20	5,129.60
B.7	Occupation Safety and Health Program	2.18	month	11.17	1,023,513.20	91,657.90
B.9	Mobilization & Demobilization	0.39	L.S.	1.00	184,198.00	184,198.00

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART C - EARTHWORKS						
104(1a)	Embankment, from Excavation	0.40	cu.m.	806.00	185,834.77	230.56
104(1b)	Embankment, Common Borrow	6.43	cu.m.	3,748.00	3,026,963.51	807.62
105(1)a	Subgrade Preparation	0.01	sq.m.	325.00	5,193.01	15.98
PART D - SUBBASE AND BASE COURSE						
200	Aggregate Subbase Course	1.20	cu.m.	508.00	563,616.35	1,109.48
PART E - SURFACE COURSES						
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thk.	2.65	sq.m.	785.00	1,244,703.92	1,585.61
311(1)a	Portland Cement Concrete Pavement, 0.15 m. thk.	1.22	sq.m.	387.00	573,482.58	1,481.87
PART F - BRIDGE CONSTRUCTION						
101(3)a4	Removal of Structures/Obstructions	0.02	sq.m.	64.00	7,390.97	115.48
101(3)b5	Removal of Structures/Obstructions	0.01	sq.m.	60.00	6,929.03	115.48
101(7)a	Removal of Structures/Obstructions	0.73	kg.	70,000.00	341,859.07	4.88
101(6)a	Removal of Structures/Obstructions	0.65	cu.m.	81.21	306,753.31	3,777.29
101(6)b	Removal of Structures/Obstructions	0.54	cu.m.	700.00	254,774.50	363.96
103(2)a	Bridge Excavation Above Ordinary Water Level	0.34	cu.m.	686.00	158,335.49	230.81
103(2)b	Bridge Excavation Below Ordinary Water Level	0.47	cu.m.	964.00	222,500.60	230.81
400(4)a	Precast Concrete Piles, Furnished	15.86	ln.m.	1,880.00	7,459,447.62	3,967.79
400(6)	Structural Steel Sheet Piles, Furnished	11.39	ln.m.	2,178.00	5,357,827.82	2,459.98
400(12)	Structural Steel Sheet Piles, Driven	2.27	ln.m.	1,452.00	1,068,812.12	736.10
400(14)	Precast Concrete Piles, Driven	7.78	ln.m.	1,786.00	3,661,896.82	2,050.33
400(16)	Test Piles, Furnished and Driven (400 mm. x 400 mm.)	0.84	ln.m.	80.00	397,458.00	4,968.23
401(2)a	Concrete Railing	0.85	ln.m.	100.00	398,564.76	3,985.65
402(1)	Timber Structures for Craneway	1.75	span	14.00	823,523.27	58,823.09
403(5)	Structural Steel, Furnished, Fabricated and Erected	0.51	kg.	1,247.75	239,243.89	191.74
404(1)a	Reinforcing Steel, Grade 40	0.38	kg.	3,715.16	179,182.06	48.23
404(1)b	Reinforcing Steel, Grade 60	10.51	kg.	96,261.98	4,944,592.86	51.37
405(1)b3	Structural Concrete, Class "A"	9.53	cu.m.	550.78	4,482,214.04	8,137.94
406(1)a4	Prestressed Concrete AASHTO Girder (Type III)	10.04	ln.m.	200.00	4,722,590.96	23,612.95
407(8)	Lean Concrete	0.19	cu.m.	18.00	91,135.03	5,063.06
412(1)	Elastomeric Bearing Pad	0.28	each	8.00	130,228.17	16,278.52
414	Forms and Falsework	1.88	L.S.	1.00	884,830.96	884,830.96
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES						
505(5)	Grouted Riprap, Class A	4.43	cu.m.	664.00	2,085,743.67	3,141.18
507(1)	Rubble Concrete	1.25	cu.m.	137.56	585,878.44	4,259.08
508(1)	Handlaid Rock Embankment	1.04	cu.m.	275.65	487,019.72	1,766.80
PART H - MISCELLANEOUS STRUCTURES						
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.06	sq.m.	36.00	26,277.74	729.94
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	0.05	sq.m.	27.00	25,718.80	952.55
TOTAL		100.00			P 47,043,269.34	

NAME OF PROJECT : Construction of Datu Lumok Bridge along Zamboanga del Sur Coastal Road
Lapuyan, Zamboanga del Sur
Zamboanga del Sur

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Labor	7.50	4,566,011.98
A.2. Equipment Expenses	11.35	6,905,088.61
A.3. Materials	58.47	35,572,168.76
SUB-TOTAL (DIRECT COST)	77.32	P 47,043,269.34
B. INDIRECT COST (Per D.O. # 197, s. 2016)		
B.1. Overhead, Contingency & Misc. (10 % Max. of D.C.)	7.45	4,533,743.58
B.2. Profit (8 % Max. of D.C.)	6.11	3,720,228.41
C. VAT (5% of D.C. and I.C. Per D.O. # 197, s. 2016)	4.54	2,764,862.07
SUBTOTAL (CONTRACT COST)	95.43	P 58,062,103.40
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.5%)	3.50	2,129,400.00
2. Detailed Engineering (1%)		
3. Reserved for the Payment of RROW		
4. Physical Reserved	1.07	648,496.60
TOTAL ESTIMATED PROJECT COST	100.00	P 60,840,000.00

Prepared :	Checked :
<u>JERIC VINCENT T. RUIZ</u> Engineer II	<u>JERALD R. BARRERA</u> Engineer II
Submitted :	Recommending Approval :
<u>LEONCIO B. SOLAMILLO</u> Chief, Construction Division	<u>CAYAMOMBAO D. DIA</u> OIC - Assistant Regional Director
Approved :	
<u>JORGE U. SEBASTIAN, JR., CESO III</u> Regional Director	