

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)

NAME/LOCATION OF PROJECT :		Appropriation	:	P	290,000,000.00
Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City		Source of Funds	:	CY 2018 Regular Infra Project	
		Issued Obligated Authority	:		
		Released	:		
		Cal. Days to Complete	:	552 Calendar Days	
PROJECT CATEGORY :		Desirable Starting Date	:	Upon Approval	
NATIONAL ROAD		Mode of Implementation	:	By Contract	
PROJECT DESCRIPTION :		STATION LIMITS :			
Scope of Work	:	Construction of Flyover & ROW Acquisition		Beggining Of Project :	1941 + 604.62
Flyover Width	:	17.50 meters (Physical Target = 8,225.00 m²)		End Of Project :	1942 + 074.62
Clear Roadway	:	2 x 7.40 meters = 14.80 meters		Abutment - A :	1941 + 768.48
No. Of Lanes	:	4 Lanes		Abutment - B :	1941 + 980.75
Deck Slab Thickness	:	0.22 meters		Total Length of Bridge :	212.27 Ln.M.
Roadway Thickness	:	0.30 meters PCCP (Reinforced)		Total Length of Flyover :	470.00 Ln.M.

MINIMUM EQUIPMENT REQUIREMENT :				TECHNICAL PERSONNEL REQUIRED :	
Description	No.	Description	No.	Description	No.
Bulldozer (155 HP), D65A-8	1	Drilling Rig	1	Project Engineer	1
Payloader (1.50 cu.m.)	1	One Bagger Mixer	1	Materials Engineer	1
Motorized Road Grader, G710A	1	Transit Mixer (5 cu.m.)	4	Materials Lab. Tech.	1
Vibratory Roller (10 m.t.), SP56	1	Concrete Saw, Blade Ø 14" (7.5 Hp)	2	Surveyor	1
Batching Plant (30 cu.m.)	1	Bar Cutter, Single Phase	2	Safety Practitioner	1
Dumptruck (10 cu.m.)	4	Bar Bender	2	Foreman	2
Backhoe (0.80 cu.m.)	2	Concrete Vibrator	2	Carpenter	8
Water Truck	2	Truck Mounted Crane	2	Mason	10
Cargo Truck (10T, 270 Hp)	2	Plate Compactor	1	Laborer	20

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(3)	Construction of Field Office for the Engineer, (7.00m x 9.00m)	0.241	l.s.	1.00	474,778.75	474,778.75
A.1.1(11)	Provision of Furnitures/Fixtures. Equipment and Appliances for the	0.094	l.s.	1.00	185,145.00	185,145.00
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle	0.329	mos.	15.00	649,760.80	43,317.39
PART B - OTHER GENERAL REQUIREMENTS						
B.4(1)	Construction Survey and Staking	0.017	km	0.47	33,263.62	70,773.65
B.5	Project Billboard/Signboard	0.007	each	2.00	12,939.20	6,469.60
B.7(2)	Occupational Safety and Health Program	0.214	l.s.	1.00	421,433.12	421,433.12
B.8(2)	Traffic Management	0.779	l.s.	1.00	1,536,338.56	1,536,338.56
B.9	Mobilization & Demobilization	0.810	l.s.	1.00	1,598,304.00	1,598,304.00
PART C - EARTHWORKS						
101(1)	Removal of Structures and Obstructions	0.686	l.s.	1.00	1,353,007.30	1,353,007.30
103(1)a	Structure Excavation	0.182	cu.m.	1,562.53	359,562.61	230.12
103(2)b	Bridge Excavation	0.264	cu.m.	1,834.06	520,424.51	283.76
104(1)a	Embankment from Roadway Excavation	0.075	cu.m.	637.80	147,053.87	230.56
PART D - SUBBASE AND BASE COURSE						
200(1)	Aggregate Subbase Course, 0.30m. Thick	0.074	cu.m.	121.50	145,313.48	1,196.00
PART E - SURFACE COURSE						
311(1)e1	PCC Pavement (Unreinforced), 280 mm thk.	0.628	sq.m.	720.00	1,240,048.00	1,722.29

ESTIMATED COST OF PROPOSED WORK

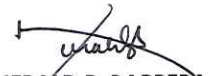
ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART F - BRIDGE CONSTRUCTION						
400(17)e	Concrete Piles Cast in Drilled Holes (1.20m Diam.)	4.744	ln.m.	182.00	9,361,288.22	51,435.65
400(17)h	Concrete Piles Cast in Drilled Holes (1.50m Diam.)	13.141	ln.m.	420.00	25,928,241.65	61,733.91
400(23)e2	Permanent Casing (1.20m Diam.)	1.385	ln.m.	120.00	2,732,217.02	22,768.48
400(23)h2	Permanent Casing (1.50m Diam.)	3.454	ln.m.	240.00	6,814,795.55	28,394.98
400(26)a	Pile Integrity Test (Crosshole-Sonic)	0.825	each	7.00	1,628,248.08	232,606.87
400(27)	High Strain Dynamic Test (P.D.A.)	0.179	each	2.00	354,156.26	177,078.13
401(1)a1	Metal Railing	1.114	ln.m.	422.74	2,198,024.78	5,199.47
404(1)a	Reinforcing Steel Bar, (Grade 40)	0.674	Kgs.	25,322.93	1,329,429.51	52.50
404(1)b	Reinforcing Steel Bar, (Grade 60)	17.622	Kgs.	589,813.91	34,770,003.95	58.95
405(1)b3	Structural Concrete, 27.58 Mpa	15.975	cu.m.	3,601.08	31,521,012.19	8,753.20
406(1)g10	Prestressed Structural Concrete Members, Type V	32.514	each	48.00	64,152,967.84	1,336,520.16
407(8)	Lean Concrete	0.302	cu.m.	102.95	595,880.78	5,788.28
412(1)	Elastomeric Bearing Pads	1.960	each	96.00	3,867,490.32	40,286.36
413(3)b	Premoulded Expansion Joint Filler with Sealant	0.014	cu.m.	79.72	28,589.23	358.62
413(7)a1	Expansion Dam for Bridges (Steel)	0.869	Set	4.00	1,714,549.91	428,637.48
414(1)	Forms and Falseworks	0.829	l.s	1.00	1,635,237.70	1,635,237.70
TOTAL		100.000			P 197,309,505.77	

NAME OF PROJECT : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

STATION LIMITS: Begging Of Project : 1941 + 604.62
End Of Project : 1942 + 074.62
Abutment - A : 1941 + 768.48
Abutment - B : 1941 + 980.75

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Materials	44.10	127,896,425.55
A.2. Labor	4.86	14,081,226.01
A.3. Equipment Expenses	19.08	55,331,854.20
SUB-TOTAL (DIRECT COST)	68.04	P 197,309,505.77
B. INDIRECT COST (Per D.O. # 197 s.2016)		
B.1. Overhead, Contingency & Misc. (8% Max. of D.C.)	5.29	15,334,278.10
B.2. Profit (8 % Max. of D.C.)	5.38	15,604,915.28
C. VAT (5% of D.C. and I.C.)	3.94	11,412,434.96
SUBTOTAL (CONTRACT COST)	82.64	P 239,661,134.10
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.50%)	3.50	10,150,000.00
2. Detailed Engineering (1%)		
3. Reserved for the Payment of RROW	13.79	40,000,000.00
4. Physical Reserved	0.07	188,865.90
TOTAL ESTIMATED PROJECT COST	100.00	P 290,000,000.00

Prepared: 
MICHAEL D. TORINO
Engineer II

Checked: 
JERALD R. BARRERA
Engineer II

Submitted: 
LEONCIO B. SOLAMILLO
Chief, Construction Division

Recommending Approval: 
CAYAMOMBAO D. DIA
Assistant Regional Director

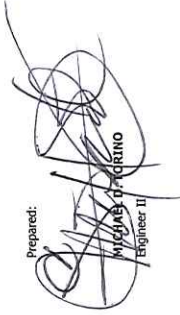
Approved: 
JORGE U. SEBASTIAN, JR., CESO III
Regional Director

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY AS TO PLAN													QUANTITY AS TO POW	REMARKS	
			ABUTMENTS		PIERS					SUPERSTRUCTURE	BELOW FLYOVER	RETAINING WALL		ROAD COMPONENT	TOTAL			
			A	B	1	2	3	4	5			A	B					
PART - A, FACILITIES FOR THE ENGINEER																		
1	A.1.1(3) Construction of Field Office for the Engineer	L.S.															1.00	1.00
2	A.1.1.1 Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Engineer	L.S.															1.00	1.00
3	A.1.2(5) Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	Months															15.00	15.00
PART - B, OTHER GENERAL REQUIREMENTS																		
4	B.4(1) Construction Survey and Staking	Km.															0.47	0.47
5	B.5 Project Billboard / Signboard	Each															2.00	2.00
6	B.7(2) Occupational Safety and Health Program	L.S.															1.00	1.00
7	B.8(2) Traffic Management	L.S.															1.00	1.00
7	B.9 Mobilization / Demobilization	L.S.															1.00	1.00
PART - C, EARTHWORKS																		
8	101(1) Removal of Actual Structures / Obstructions	L.S.															1.00	1.00
9	103(1)a Structure Excavation	Cu.M.													3,434.57	1,562.53	4,997.10	1,562.53
10	103(2)a Bridge Excavation	Cu.M.	31.02	26.06	342.49	352.15	351.57	401.03	329.74								1,834.06	1,834.06
11	104(1)a Embankment from Roadway Excavation	Cu.M.	12.50	10.38	116.34	123.73	122.44	156.33	103.49								645.21	645.21
12	104(2)a Embankment from Borrow	Cu.M.															8,842.39	8,842.39
PART - D, SUBBASE AND BASE COURSE																		
12	200(1) Aggregate Subbase Course	Cu.M.													856.74	493.20	1,471.43	121.50
PART - E, SURFACE COURSES																		
13	311(2)/f1 Portland Cement Concrete Pavement (Reinforced)	Sq.M.													2,243.60	1,255.42	720.00	720.00
PART - F, BRIDGE CONSTRUCTION																		
14	400(17)e Concrete Piles Cast in Drilled Holes (1.20m)	Ln.M.	91.00	91.00	-	-	-	-	-								182.00	1.20 m. Diameter
15	400(17)h Concrete Piles Cast in Drilled Holes (1.50m)	Ln.M.	-	-	84.00	84.00	84.00	84.00	84.00								420.00	1.50 m. Diameter
16	400(24)e2 Permanent Casing (1.20m x 12mm thk.)	Ln.M.	60.00	60.00	-	-	-	-	-								120.00	12mm thk.
17	400(24)e1 Permanent Casing (1.50m x 12mm thk.)	Ln.M.	-	-	48.00	48.00	48.00	48.00	48.00								240.00	12mm thk.
18	400(27)a Pile Integrity Testing	Each	1.00	1.00	1.00	1.00	1.00	1.00	1.00								7.00	Crosshole-Sonic
19	400(28) High Strain Dynamic Testing (P.D.A.)	Each	1.00				1.00										2.00	2.00
20	401(1)a Metal Railing	Ln.M.											422.74				422.74	Steel
21	401(2)c Concrete Railing	Ln.M.											496.87				496.87	Parapet (Concrete)
22	404(1)a Reinforcing Steel, Grade 40	Kgs.	101.59	101.59	-	-	-	-	-				17,670.17				40,165.20	25,322.93
23	404(1)b Reinforcing Steel, Grade 60	Kgs.	17,755.80	20,246.30	57,042.00	63,108.40	63,183.80	63,108.40	59,133.70				194,977.60				7,932.84	589,813.91
24	405(1)b2 Structural Concrete, 27.58 Mpa	Cu.M.	148.00	193.00	295.26	314.52	316.12	314.52	302.33				1,229.00				54.80	4,587.09
25	406(1)g10 Prestressed Structural Concrete Members, Type V	Each	-	-	-	-	-	-	-				48.00				48.00	48.00
26	407(8) Lean Concrete	Cu.M.	6.14	6.14	11.87	11.87	11.87	11.87	11.87				-				146.42	102.95
27	412(1) Elastomeric Bearing Pads	Each	8.00	8.00	16.00	16.00	16.00	16.00	16.00				-				96.00	96.00
28	413(3)b Premoulded Expansion Joint Filler with Sealant	Cu.M.	5.40	5.40	13.70	13.73	13.54	13.73	13.70								0.52	-
29	413(7)a1 Expansion Dam for Bridges (Steel)	Set	1.00	1.00		1.00		1.00									4.00	-
30	414(1) Forms and Falseworks	L.S.	-	-	-	-	-	-	-				-				1.00	1.00

Prepared:

Checked:


MICHAEL D. ORINO
Engineer II


PIO MARIO T. LACORTESANTOS
Engineer III
Chief, Bridge & Other Public Works Design Section

APPROVED BUDGET FOR THE CONTRACT

Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Contract Duration : 552.00 C.D.

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) (5) x (8)	(10) 5%[(5) + (9)]	(11) (9) + (10)	(12) (5) + (11)	(13) (12) / (3)
PART A - FACILITIES FOR THE ENGINEER												
A.1.1(3)	Construction of Field Office for the Engineer, (7.00m x 9.00m)	1.00	l.s.	474,778.75	8.00	8.00	16.00	75,964.60	27,537.17	103,501.77	578,280.51	578,280.51
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the	1.00	l.s.	185,145.00	0.00	8.00	8.00	14,811.60	9,997.83	24,809.43	209,954.43	209,954.43
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle	15.00	mos.	649,760.80	0.00	0.00	0.00	-	32,488.04	32,488.04	682,248.84	45,483.26
PART B - OTHER GENERAL REQUIREMENTS												
B.4(1)	Construction Survey and Staking	0.47	km	33,263.62	8.00	8.00	16.00	5,322.18	1,929.29	7,251.47	40,515.08	86,202.31
B.5	Project Billboard/Signboard	2.00	each	12,939.20	8.00	8.00	16.00	2,070.27	750.47	2,820.75	15,759.95	7,879.97
B.7(2)	Occupational Safety and Health Program	1.00	l.s.	421,433.12	0.00	8.00	8.00	33,714.65	22,757.39	56,472.04	477,905.16	477,905.16
B.8(2)	Traffic Management	1.00	l.s.	1,536,338.56	0.00	8.00	8.00	122,907.08	82,962.28	205,869.37	1,742,207.93	1,742,207.93
B.9	Mobilization & Demobilization	1.00	l.s.	1,598,304.00	0.00	0.00	0.00	-	79,915.20	79,915.20	1,678,219.20	1,678,219.20
PART C - EARTHWORKS												
101(1)	Removal of Structures and Obstructions	1.00	l.s.	1,353,007.30	8.00	8.00	16.00	216,481.17	78,474.42	294,955.59	1,647,962.89	1,647,962.89
103(2)b	Bridge Excavation	1,834.06	cu.m.	520,424.51	8.00	8.00	16.00	83,267.92	30,184.62	113,452.54	633,877.06	345.61
104(1)a	Embankment from Roadway Excavation	637.80	cu.m.	147,053.87	8.00	8.00	16.00	23,528.62	8,529.12	32,057.74	179,111.61	280.83
PART D - SUBBASE AND BASE COURSE												
200(1)	Aggregate Subbase Course, 0.30m. Thick	121.50	cu.m.	145,313.48	8.00	8.00	16.00	23,250.16	8,428.18	31,678.34	176,991.82	1,456.72
PART E - SURFACE COURSE												
311(1)e1	PCC Pavement (Unreinforced), 280 mm thk.	720.00	sq.m.	1,240,048.00	0.00	8.00	8.00	99,203.84	66,962.59	166,166.43	1,406,214.43	1,953.08

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST
					OCM	PROFIT	%	VALUE			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
								(5) x (8)	5%[(5) + (9)]	(9) + (10)	(5) + (11)
PART F - BRIDGE CONSTRUCTION											
400(17)e	Concrete Piles Cast in Drilled Holes (1.20m Diam.)	182.00	ln.m.	9,361,288.22	8.00	8.00	16.00	1,497,806.11	542,954.72	2,040,760.83	11,402,049.05
400(17)h	Concrete Piles Cast in Drilled Holes (1.50m Diam.)	420.00	ln.m.	25,928,241.65	8.00	8.00	16.00	4,148,518.66	1,503,838.02	5,652,356.68	31,580,598.32
400(23)e2	Permanent Casing (1.20m Diam.)	120.00	ln.m.	2,732,217.02	8.00	8.00	16.00	437,154.72	158,468.59	595,623.31	3,327,840.33
400(23)h2	Permanent Casing (1.50m Diam.)	240.00	ln.m.	6,814,795.55	8.00	8.00	16.00	1,090,367.29	395,258.14	1,485,625.43	8,300,420.98
400(26)a	Pile Integrity Test (Crosshole-Sonic)	7.00	each	1,628,248.08	8.00	8.00	16.00	260,519.69	94,438.39	354,958.08	1,983,206.16
400(27)	High Strain Dynamic Test (P.D.A.)	2.00	each	354,156.26	8.00	8.00	16.00	56,665.00	20,541.06	77,206.06	431,362.32
401(11)a1	Metal Railing	422.74	ln.m.	2,198,024.78	8.00	8.00	16.00	351,683.96	127,485.44	479,169.40	2,677,194.18
404(11)a	Reinforcing Steel Bar, (Grade 40)	25,322.93	Kgs.	1,329,429.51	8.00	8.00	16.00	212,708.72	77,106.91	289,815.63	1,619,245.15
404(11)b	Reinforcing Steel Bar, (Grade 60)	589,813.91	Kgs.	34,770,003.95	8.00	8.00	16.00	5,563,200.63	2,016,660.23	7,579,860.86	42,349,864.81
405(11)b3	Structural Concrete, 27.58 Mpa	3,601.08	cum.	31,521,012.19	8.00	8.00	16.00	5,043,361.95	1,828,218.71	6,871,580.66	38,392,592.85
406(11)g10	Prestressed Structural Concrete Members, Type V	48.00	each	64,152,967.84	8.00	8.00	16.00	10,264,474.85	3,720,872.13	13,985,346.99	78,138,314.83
407(8)	Lean Concrete	102.95	cum.	595,880.78	8.00	8.00	16.00	95,340.92	34,561.09	129,902.01	725,782.79
412(11)	Elastomeric Bearing Pads	96.00	each	3,867,490.32	8.00	8.00	16.00	618,798.45	224,314.44	843,112.89	4,710,603.21
413(3)b	Premoulded Expansion Joint Filler with Sealant	79.72	cum.	28,589.23	8.00	8.00	16.00	4,574.28	1,658.18	6,232.45	34,821.68
413(7)a1	Expansion Dam for Bridges (Steel)	4.00	Set	1,714,549.91	8.00	8.00	16.00	274,327.99	99,443.89	373,771.88	2,088,321.79
414(11)	Forms and Falseworks	1.00	ls	1,635,237.70	8.00	8.00	16.00	261,638.03	94,843.79	356,481.82	1,991,719.51
T O T A L				197,309,505.77					11,412,434.96		239,661,134.10

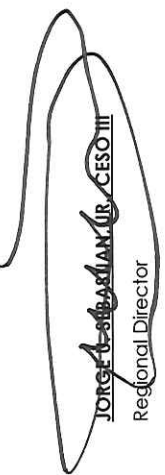
Submitted :

Recommending Approval :

Approved :


BELEM A. SAPALLIDA
Head, BAC-TWG


CAYAMOWBAO D. DIA
Assistant Regional Director


JORGE A. SEBASTIAN JR. CESO III
Regional Director

Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

SUMMARY OF DETAILED ESTIMATES

ITEM NO.	DESCRIPTION	EQUIPMENT	LABOR	MATERIALS	TOTAL
PART A - FACILITIES FOR THE ENGINEER					
A.1.1(3)	Construction of Field Office for the Engineer, (7.00m x 9.00m)	33,798.53	87,665.28	353,314.94	474,778.75
A.1.1(11)	Provision of Furnitures/Fixtures. Equipment and Appliances for the	-	-	185,145.00	185,145.00
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle	-	170,188.80	479,572.00	649,760.80
PART B - OTHER GENERAL REQUIREMENTS					
B.4(1)	Construction Survey and Staking	1,207.30	5,806.32	26,250.00	33,263.62
B.5	Project Billboard/Signboard	-	3,479.20	9,460.00	12,939.20
B.7(2)	Occupational Safety and Health Program	-	228,933.12	192,500.00	421,433.12
B.8(2)	Traffic Management	-	1,286,338.56	250,000.00	1,536,338.56
B.9	Mobilization & Demobilization	1,598,304.00	-	-	1,598,304.00
PART C - EARTHWORKS					
101(1)	Removal of Structures and Obstructions	1,230,063.94	122,943.36	-	1,353,007.30
103(1)a	Structure Excavation	343,559.96	16,002.65	-	359,562.61
103(2)b	Bridge Excavation	491,937.63	28,486.88	-	520,424.51
104(1)a	Embankment from Roadway Excavation	143,271.05	3,782.81	-	147,053.87
PART D - SUBBASE AND BASE COURSE					
200(1)	Aggregate Subbase Course, 0.30m. Thick	11,254.55	393.78	133,665.15	145,313.48
PART E - SURFACE COURSE					
311(1)e1	PCC Pavement (Unreinforced), 280 mm thk.	150,863.98	10,160.77	1,079,023.26	1,240,048.00
PART F - BRIDGE CONSTRUCTION					
400(17)e	Concrete Piles Cast in Drilled Holes (1.20m Diam.)	2,551,020.92	252,514.81	6,557,752.48	9,361,288.22
400(17)h	Concrete Piles Cast in Drilled Holes (1.50m Diam.)	8,282,840.48	725,690.52	16,919,710.65	25,928,241.65
400(23)e2	Permanent Casing (1.20m Diam.)	328,976.82	33,286.20	2,369,954.00	2,732,217.02
400(23)h2	Permanent Casing (1.50m Diam.)	822,442.05	83,215.50	5,909,138.00	6,814,795.55
400(26)a	Pile Integrity Test (Crosshole-Sonic)	80,948.00	4,890.76	1,542,409.32	1,628,248.08
400(27)	High Strain Dynamic Test (P.D.A.)	193,131.22	4,236.24	156,788.79	354,156.26
401(1)a1	Metal Railing	789,438.63	270,693.10	1,137,893.04	2,198,024.78
404(1)a	Reinforcing Steel Bar, (Grade 40)	134,682.81	74,495.83	1,120,250.87	1,329,429.51
404(1)b	Reinforcing Steel Bar, (Grade 60)	4,306,102.36	1,764,047.40	28,699,854.20	34,770,003.95
405(1)b3	Structural Concrete, 27.58 Mpa	2,975,503.65	4,429,182.55	24,116,326.00	31,521,012.19
406(1)g10	Prestressed Structural Concrete Members, Type V	29,514,192.91	4,115,544.62	30,523,230.31	64,152,967.84
407(8)	Lean Concrete	39,727.34	47,085.29	509,068.14	595,880.78
412(1)	Elastomeric Bearing Pads	10,377.84	15,556.80	3,841,555.68	3,867,490.32
413(3)b	Premoulded Expansion Joint Filler with Sealant	8,668.23	13,924.69	5,996.30	28,589.23
413(7)a1	Expansion Dam for Bridges (Steel)	1,277,245.68	159,736.80	277,567.43	1,714,549.91
414(1)	Forms and Falseworks	12,294.34	122,943.36	1,500,000.00	1,635,237.70
TOTAL		55,331,854.20	14,081,226.01	127,896,425.55	197,309,505.77

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 101(1) Removal of Structures and Obstructions

Unit of Measurement : l.s.

Output per hour :

Quantity : 1.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	24.00	611.92	14,686.08
	b. Skilled Laborer	4	24.00	443.20	42,547.20
	c. Laborer	8	24.00	342.24	65,710.08
Sub-total for A					122,943.36
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	24.00	12,296.00	295,104.00
	b. Backhoe w/ Breaker (0.80 cu.m.)	1	12.00	15,984.80	191,817.60
	c. Air Compressor (356-450 cfm)	2	24.00	7,720.00	370,560.00
	d. Jackhammer	2	24.00	1,200.00	57,600.00
	e. Payloader (1.50 cu.m.)	1	12.00	13,864.00	166,368.00
	f. Dumptruck (10 cu.m.)	1	12.00	11,360.00	136,320.00
	Minor Tools (10% of Labor)				12,294.34
Sub-total for B					1,230,063.94
C.	Total (A + B)				1,353,007.30
D.	Output / day - cu.m./day				
Name and Specification		Quantity	Unit	Unit Cost	Total
E.	Materials				
Sub-total for E					-
F.	Direct Unit Cost (C + E)				1,353,007.30
G.	Overhead Contingencies & Miscellaneous (OCM)			8%	108,240.58
H.	Contractors Profit (CP)			8%	108,240.58
I.	Value Added Tax (VAT)			5%	78,474.42
J.	Total Unit Cost				1,647,962.89

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 103(1)a Structure Excavation

Unit of Measurement : cu.m.

Output per hour : 20.00 cu.m./hr.

Quantity : 1,562.53

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	9.77	611.92	5,975.90
	b. Laborer	3	9.77	342.24	10,026.76
Sub-total for A					16,002.65
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2014 ACEL Rates)				
	a. Dumptruck (10 cu.m.)	2	9.77	11,360.00	221,879.26
	b. Backhoe (0.80 cu.m.)	1	9.77	12,296.00	120,080.43
	Minor Tools (10% of Labor)				1,600.27
Sub-total for B					343,559.96
C.		Total (A + B)			359,562.61
D. Output / day		160.00 cu.m./day			
Name and Specification		Quantity	Unit	Unit Cost	Total
E.	Materials				-
					-
					-
					-
					-
Sub-total for E					-
F. Direct Unit Cost (C + E)					359,562.61
G. Overhead Contingencies & Miscellaneous (OCM)		8%			28,765.01
H. Contractors Profit (CP)		8%			28,765.01
I. Value Added Tax (VAT)		5%			20,854.63
J. Total Unit Cost					280.28

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
 Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City
 Item No./Description : 103(2)b Bridge Excavation
 Unit of Measurement : cu.m.
 Output per hour : 14.00 cu.m./hr.
 Quantity : 1,834.06

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	16.38	611.92	10,020.52
	b. Skilled Laborer	1	16.38	443.20	7,257.64
	c. Laborer	2	16.38	342.24	11,208.73
Sub-total for A					28,486.88
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	8.19	12,296.00	100,676.79
	b. Backhoe w/ Breaker (0.80 cu.m.)	1	8.19	1,998.10	16,359.98
	b. Dumptruck (10 cu.m.)	2	16.38	11,360.00	372,052.17
	Minor Tools (10% of Labor)				2,848.69
Sub-total for B					491,937.63
C. Total (A + B)					520,424.51
D. Output / day		112.00 cu.m./day			
Name and Specification		Quantity	Unit	Unit Cost	Total
E.	Materials				
Sub-total for E					-
F. Direct Unit Cost (C + E)					520,424.51
G. Overhead Contingencies & Miscellaneous (OCM)			8%		41,633.96
H. Contractors Profit (CP)			8%		41,633.96
I. Value Added Tax (VAT)			5%		30,184.62
J. Total Unit Cost					345.61

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

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

Unit of Measurement : cu.m.

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

Quantity : 637.80

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	For Excavation Work:				
	a. Construction Foreman	1	1.32	611.92	809.84
	b. Laborer	2	1.32	342.24	905.86
	For Spreading and Compaction:				
	a. Construction Foreman	1	1.59	611.92	975.71
	b. Laborer	2	1.59	342.24	1,091.40
Sub-total for A					3,782.81
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2014 ACEL Rates)				
	For Excavation Work:				
	a. Bulldozer (155Hp), D65A-8	1	1.32	27,032.00	35,775.09
	b. Payloader (1.50 cu.m.)	1	1.32	13,864.00	18,348.10
	c. Dump Truck (10 cu.m.)	2	1.32	11,360.00	30,068.44
	For Spreading and Compaction:				
	a. Motorized Road Grader, G710A	1	1.59	17,384.00	27,718.79
	b. Vibratory Roller (10 m.t.), SP56	1	1.59	14,768.00	23,547.58
	c. Water Truck	1	0.40	19,600.00	7,813.05
Sub-total for B					143,271.05
C. Total (A + B)					147,053.87
D. Output / day		400.00 cu.m./day			
Name and Specification		Quantity	Unit	Unit Cost	Total
E.	Materials				
Sub-total for E					-
F. Direct Unit Cost (C + E)					147,053.87
G. Overhead Contingencies & Miscellaneous (OCM)				8%	11,764.31
H. Contractors Profit (CP)				8%	11,764.31
I. Value Added Tax (VAT)				5%	8,529.12
J. Total Unit Cost					280.83

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 200(1) Aggregate Subbase Course, 0.30m. Thick

Unit of Measurement : cu.m.

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

Quantity : 121.50

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.30	611.92	185.87
	b. Laborer	2	0.30	342.24	207.91
Sub-total for A					393.78
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2014 ACEL Rates)				
	a. Motorized Road Grader, G710A	1	0.30	17,384.00	5,280.39
	b. Vibratory Roller (10 m.t.), SP56	1	0.30	14,768.00	4,485.78
	c. Water Truck	1	0.08	19,600.00	1,488.38
Sub-total for B					11,254.55
C. Total (A + B)					11,648.33
D. Output / day		400.00 cu.m./day			
Name and Specification		Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Aggregate Subbase Course (with shrinkage of 15%)	139.73	cu.m.	956.63	133,665.15
Sub-total for E					133,665.15
F. Direct Unit Cost (C + E)					145,313.48
G. Overhead Contingencies & Miscellaneous (OCM)			8%		11,625.08
H. Contractors Profit (CP)			8%		11,625.08
I. Value Added Tax (VAT)			5%		8,428.18
J. Total Unit Cost					1,456.72

DETAILED UNIT PRICE ANALYSIS

Name of Project : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No. & Description : 311(1)e1 PCC Pavement (Unreinforced), 280 mm thk.

Unit of Measurement : sq.m.

Output per Hour : 57.50 sq.m./hr.

Quantity : 720.00

	Designation	No. of Persons	No. of Days	Rate/Day	Amount
A.	Labor				
	a. Construction Foreman	1	1.57	611.92	957.79
	b. Skilled Laborer	4	1.57	443.20	2,774.82
	c. Laborer	12	1.57	342.24	6,428.16
Sub-total for A					10,160.77
	Name and Capacity	No. of Units	No. of Days	Rate/Day	Amount
B.	Equipment, (2014 Acel Rates)				
	a. Transit Mixer (5 cu.m.)	4	1.57	10,544.00	66,014.61
	b. Concrete Vibrator	2	1.57	730.00	2,285.22
	c. Batching Plant (30cu.m.)	1	1.57	14,076.00	22,032.00
	d. Payloader (1.5 cu.m.), LX80-2C	1	1.57	13,864.00	21,700.17
	e. Concrete Screeder (5.5 HP)	1	1.57	4,360.00	6,824.35
	f. Water Truck	1	1.57	19,600.00	30,678.26
	g. Concrete Saw, Blade Dia. 14" (7.5 HP)	1	1.57	261.04	408.58
	h. Bar Cutter, Single Phase	1	0.23	1,758.00	412.75
	Minor Tools (5% of Labor)				508.04
Sub-Total					150,863.98
C. Total (A + B)					161,024.74
D. Output per Day					460 sq.m./day
	Name and Specification	No. of Units	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bars	360.00	kg.	44.41	15,987.62
	b. Curing Compound	208.80	lit.	35.00	7,308.00
	c. Asphalt Sealant	129.60	lit.	70.00	9,072.00
	d. Steel Forms (Rental)	331.20	l.m.	64.00	21,196.80
	e. Sand	110.88	cu.m.	1,576.63	174,816.76
	f. Gravel	216.00	cu.m.	1,376.63	297,352.12
	g. Cement	1,915.20	bag	283.37	542,700.98
	h. Concrete Saw (diamond blade 14"Ø)	1.00	pc.	8,000.00	8,000.00
	i. Pipe Sleeve, 2"Ø	5.62	l.m.	179.00	1,005.26
	j. Grease/Tar	5.62	lit.	282.00	1,583.71
Sub-Total					1,079,023.26
F. Direct Cost (C + E)					1,240,048.00
G. Overhead Contingencies and Miscellaneous (OCM)			8%		99,203.84
H. Contractor's profit (CP)			8%		99,203.84
I. Value Added Tax (VAT)			5%		71,922.78
J. Total Unit Cost					2,097.75

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 400(17)e Concrete Piles Cast in Drilled Holes (1.20m Diam.)

Unit of Measurement : In.m.

Output per hour : 1.09 In.m./hr.

Quantity : 182.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	20.87	611.92	12,771.72
b. Skilled Laborer	5	20.87	443.20	46,251.38
c. Laborer	6	20.87	342.24	42,858.50
Fabrication of Cage Bar				
a. Skilled Laborer	8	16.70	443.20	59,201.76
b. Laborer	16	16.70	342.24	91,431.46
Sub-total for A				252,514.81
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Drilling Rig	1	9.39	101,096.00	949,514.04
b. Crawler Crane (45T)	1	20.87	15,648.00	326,598.17
c. Crawler Crane (25T)	1	20.87	11,072.00	231,089.91
d. Dump Truck (10 cu.m.)	1	20.87	11,360.00	237,100.92
e. Wheel Loader	1	20.87	13,864.00	289,363.30
f. Generator Set, 300 kW	1	20.87	6,982.96	145,745.27
g. Bentonite Bin	1	12.52	2,240.00	28,051.38
h. Bentonite Mixer	1	12.52	1,384.00	17,331.74
i. Water Pump	1	17.74	266.25	4,723.49
j. Water Truck (1000 gal.)	1	17.74	1,065.00	18,893.98
k. Bar Cutter	1	15.65	1,758.00	27,519.15
l. Bar Bender	1	15.65	2,812.00	44,018.12
m. Welding Machine	1	17.74	3,128.00	55,493.30
n. Cutting Outfit	1	17.74	363.60	6,450.56
o. Tremie Pipe Set	1	5.22	2,560.00	13,357.80
p. SPT and Desanding Machine	1	7.31	4,472.00	32,668.17
q. Portable Breaker	2	1.25	1,035.04	2,592.35
r. Air Compressor, Portable (126-160 cfm)	1	1.25	3,600.00	4,508.26
r. Lighting System/Tower Lights	1	20.87	4,348.00	90,749.54
Minor Tools (10% of Labor)				25,251.48
Sub-total for B				2,551,020.92
C. Total (A + B)				2,803,535.73
D. Output / day 8.72 In.m./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Ready Mix Concrete	228.00	cu.m.	4,540.00	1,035,120.00
b. Reinforcing Steel Bar	113,830.50	kg.	44.41	5,055,219.86
c. Tire Wire (2% of RSB)	2,276.61	kg.	92.00	209,448.12
d. Oxygen/Acetylene	23.00	sets	2,500.00	57,500.00
e. Welding Rod	57.00	kgs.	166.00	9,462.00
Miscellaneous (3% of Materials, Bentonite)				191,002.50
Sub-total for E				6,557,752.48
F. Direct Unit Cost (C + E)				9,361,288.22
G. Overhead Contingencies & Miscellaneous (OCM)				8% 748,903.06
H. Contractors Profit (CP)				8% 748,903.06
I. Value Added Tax (VAT)				5% 542,954.72
J. Total Unit Cost				62,648.62

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 400(17)h Concrete Piles Cast in Drilled Holes (1.50m Diam.)

Unit of Measurement : In.m.

Output per hour : 0.81 In.m./hr.

Quantity : 420.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	64.81	611.92	39,661.48
b. Skilled Laborer	5	64.81	443.20	143,629.63
c. Laborer	6	64.81	342.24	133,093.33
Fabrication of Cage Bar				
a. Skilled Laborer	7	51.85	443.20	160,865.19
b. Laborer	14	51.85	342.24	248,440.89
Sub-total for A				725,690.52
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Drilling Rig	1	32.41	101,096.00	3,276,259.26
b. Crawler Crane (45T)	1	64.81	15,648.00	1,014,222.22
c. Crawler Crane (25T)	1	64.81	11,072.00	717,629.63
d. Dump Truck (10 cu.m.)	1	64.81	11,360.00	736,296.30
e. Wheel Loader	1	64.81	13,864.00	898,592.59
f. Generator Set, 300 kW	1	64.81	6,982.96	452,599.26
g. Bentonite Bin	1	45.37	2,240.00	101,629.63
h. Bentonite Mixer	1	45.37	1,384.00	62,792.59
i. Water Pump	1	62.22	266.25	16,566.67
j. Water Truck (1000 gal.)	1	62.22	1,065.00	66,266.67
k. Bar Cutter	1	48.61	1,758.00	85,458.33
l. Bar Bender	1	48.61	2,812.00	136,694.44
m. Welding Machine	1	55.74	3,128.00	174,357.04
n. Cutting Outfit	1	55.74	363.60	20,267.33
o. Tremie Pipe Set	1	19.44	2,560.00	49,777.78
p. SPT and Desanding Machine	1	23.33	4,472.00	104,346.67
q. Portable Breaker	2	2.59	1,035.04	5,366.87
r. Air Compressor, Portable (126-160 cfm)	1	2.59	3,600.00	9,333.33
r. Lighting System/Tower Lights	1	64.81	4,348.00	281,814.81
Minor Tools (10% of Labor)				72,569.05
Sub-total for B				8,282,840.48
C. Total (A + B)				9,008,531.00
D. Output / day 6.48 In.m./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Ready Mix Concrete	819.00	cu.m.	4,540.00	3,718,260.00
b. Reinforcing Steel Bar	271,320.00	kg.	44.41	12,049,338.74
c. Tire Wire (2% of RSB)	5,426.40	kg.	92.00	499,228.80
d. Oxygen/Acetylene	55.00	sets	2,500.00	137,500.00
e. Welding Rod	136.00	kgs.	166.00	22,576.00
Miscellaneous (3% of Materials, Bentonite)				492,807.11
Sub-total for E				16,919,710.65
F. Direct Unit Cost (C + E)				25,928,241.65
G. Overhead Contingencies & Miscellaneous (OCM)				8% 2,074,259.33
H. Contractors Profit (CP)				8% 2,074,259.33
I. Value Added Tax (VAT)				5% 1,503,838.02
J. Total Unit Cost				75,191.90

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 400(23)e2 Permanent Casing (1.20m Diam.)

Unit of Measurement : In.m.

Output per hour : 2.00 In.m./hr.

Quantity : 120.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	7.50	611.92	4,589.40
b. Skilled Laborer	4	7.50	443.20	13,296.00
c. Laborer	6	7.50	342.24	15,400.80
Sub-total for A				33,286.20
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Truck Mounted Crane (45T)	1	7.50	20,848.00	156,360.00
b. Vibro Hammer w/ Hydraulic Power Pack	1	4.50	32,944.00	148,248.00
c. Welding Machine (500A), Gas/Diesel Driven	1	4.50	4,312.00	19,404.00
e. Cutting Outfit	1	4.50	363.60	1,636.20
Minor Tools (10% of Labor)				3,328.62
Sub-total for B				328,976.82
C. Total (A + B)				362,263.02
D. Output / day 16.00 In.m./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Steel Casing, 12mm thk.	120.00	In.m.	19,727.40	2,367,288.00
b. Oxygen/Acetylene	1.00	sets	2,500.00	2,500.00
c. Welding Rod	1.00	kgs.	166.00	166.00
Sub-total for E				2,369,954.00
F. Direct Unit Cost (C + E)				2,732,217.02
G. Overhead Contingencies & Miscellaneous (OCM)		8%		218,577.36
H. Contractors Profit (CP)		8%		218,577.36
I. Value Added Tax (VAT)		5%		158,468.59
J. Total Unit Cost				27,732.00

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City
Item No./Description : 400(23)h2 Permanent Casing (1.50m Diam.)
Unit of Measurement : In.m.
Output per hour : 1.60 In.m./hr.
Quantity : 240.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	18.75	611.92	11,473.50
b. Skilled Laborer	4	18.75	443.20	33,240.00
c. Laborer	6	18.75	342.24	38,502.00
Sub-total for A				83,215.50
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Truck Mounted Crane (45T)	1	18.75	20,848.00	390,900.00
b. Vibro Hammer w/ Hydraulic Power Pack	1	11.25	32,944.00	370,620.00
c. Welding Machine (500A), Gas/Diesel Driven	1	11.25	4,312.00	48,510.00
e. Cutting Outfit	1	11.25	363.60	4,090.50
Minor Tools (10% of Labor)				8,321.55
Sub-total for B				822,442.05
C. Total (A + B)				905,657.55
D. Output / day 12.80 In.m./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Steel Casing, 12mm thk.	240.00	In.m.	24,610.30	5,906,472.00
b. Oxygen/Acetylene	1.00	sets	2,500.00	2,500.00
c. Welding Rod	1.00	kgs.	166.00	166.00
Sub-total for E				5,909,138.00
F. Direct Unit Cost (C + E)				6,814,795.55
G. Overhead Contingencies & Miscellaneous (OCM)		8%		545,183.64
H. Contractors Profit (CP)		8%		545,183.64
I. Value Added Tax (VAT)		5%		395,258.14
J. Total Unit Cost				34,585.09

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
 Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 400(26)a Pile Integrity Test (Crosshole-Sonic)

Unit of Measurement : each

Output per hour : 0.25 ea./hr.

Quantity : 7.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
For Testing				
a. Construction Foreman	1	3.50	611.92	2,141.72
b. Skilled Laborer	1	3.50	443.20	1,551.20
c. Laborer	1	3.50	342.24	1,197.84
Pipe Installation				
a. Skilled Laborer	2	3.50	443.20	3,102.40
b. Laborer	2	3.50	342.24	2,395.68
Sub-total for A				4,890.76
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Pile Integrity Testing (Sonic) and Accessories (includes professional fee of Structural Engineer)	1	1.00	70,000.00	70,000.00
b. Welding Machine	1	3.50	3,128.00	10,948.00
Sub-total for B				80,948.00
C. Total (A + B)				85,838.76
D. Output / day 2.00 ea./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Black Pipe and Accessories 2"dia. x 6m.	840.00	m.	1,800.00	1,512,000.00
b. Welding Rod	1.00	kgs.	166.00	166.00
Miscellaneous (2% of Materials Cost)				30,243.32
Sub-total for E				1,542,409.32
F. Direct Unit Cost (C + E)				1,628,248.08
G. Overhead Contingencies & Miscellaneous (OCM)		8%		130,259.85
H. Contractors Profit (CP)		8%		130,259.85
I. Value Added Tax (VAT)		5%		94,438.39
J. Total Unit Cost				283,315.17

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 400(27) High Strain Dynamic Test (P.D.A.)

Unit of Measurement : each

Output per hour : 0.25 ea./hr.

Quantity : 2.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.00	611.92	611.92
b. Skilled Laborer	2	1.00	443.20	886.40
c. Laborer	4	2.00	342.24	2,737.92
Sub-total for A				4,236.24
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Dynamic Pile Testing (includes professional fee of Structural Engineer)	1	1.00	105,000.00	105,000.00
b. Truck Mounted Crane (45T)	1	1.00	20,848.00	20,848.00
c. Drop Hammer w/ Accessories (20T)	1	1.00	40,000.00	40,000.00
d. Compressor w/ Jackhammer	1	2.00	10,120.00	20,240.00
e. Concrete Vibrator	1	1.00	3,128.00	3,128.00
f. Cutting Outfit	1	1.00	363.60	363.60
g. Welding Machine	1	1.00	3,128.00	3,128.00
Minor Tools (10% of Labor)				423.62
Sub-total for B				193,131.22
C. Total (A + B)				197,367.46
D. Output / day 2.00 ea./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Steel Casing, L = 2 x PileΦ, thickness @ 12mm (Abut.)	2.40	m.	19,727.40	47,345.76
b. Steel Casing, L = 2 x PileΦ, thickness @ 12mm (Pier)	3.00	m.	24,610.30	73,830.90
c. Concrete (3000 psi)	5.60	cu.m.	4,550.00	25,480.00
d. Oxygen/Acetylene	1.00	sets	2,500.00	2,500.00
e. Welding Rod	1.00	kgs.	166.00	166.00
Miscellaneous (5% of Materials)				7,466.13
Sub-total for E				156,788.79
F. Direct Unit Cost (C + E)				354,156.26
G. Overhead Contingencies & Miscellaneous (OCM)		8%		28,332.50
H. Contractors Profit (CP)		8%		28,332.50
I. Value Added Tax (VAT)		5%		20,541.06
J. Total Unit Cost				215,681.16

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 401(1)a1 Metal Railing

Unit of Measurement : In.m.

Output per hour : 1.00 In.m./hr.

Quantity : 422.74

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	52.84	611.92	32,335.38
b. Skilled Laborer	4	52.84	443.20	93,679.18
c. Laborer	8	52.84	342.24	144,678.54
Sub-total for A				270,693.10
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Truck Mounted Crane (35T)	1	26.42	14,888.00	393,359.57
b. Cutting Outfit	2	52.84	363.60	38,427.07
c. Welding Machine	2	52.84	3,128.00	330,582.68
Minor Tools (10% of Labor)				27,069.31
Sub-total for B				789,438.63
C. Total (A + B)				1,060,131.73
D. Output / day 8.00 In.m./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. 12mm MS Plate	1,546.39	kgs.	47.00	72,680.20
b. 8mm MS Plate	3,617.28	kgs.	47.00	170,012.16
c. 6mm MS Plate	1,131.30	kgs.	47.00	53,171.30
d. 50mmΦ Sch. 40 G.I. Pipe	280.00	pcs.	1,356.00	379,680.00
e. M16x120 Chemical Anchor Bolts	780.00	pcs.	500.00	390,000.00
f. Oxygen/Acetylene	7.00	sets	2,500.00	17,500.00
g. Welding Rod	4.00	kgs.	166.00	664.00
Miscellaneous (5% of Materials)				54,185.38
Sub-total for E				1,137,893.04
F. Direct Unit Cost (C + E)				2,198,024.78
G. Overhead Contingencies & Miscellaneous (OCM)		8%		175,841.98
H. Contractors Profit (CP)		8%		175,841.98
I. Value Added Tax (VAT)		5%		127,485.44
J. Total Unit Cost				6,332.96

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
 Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City
 Item No./Description : 404(1)a Reinforcing Steel Bar, (Grade 40)
 Unit of Measurement : Kgs.
 Output per hour : 180.00 Kg./hr.
 Quantity : 25,322.93

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	17.59	611.92	10,760.84
b. Skilled Laborer	2	17.59	443.20	15,587.67
c. Laborer	8	17.59	342.24	48,147.33
Sub-total for A				74,495.83
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Truck Mounted Crane (31-35 MT)	1	3.52	14,888.00	52,362.19
b. Cargo Truck (10T, 270 Hp)	1	3.52	9,696.00	34,101.54
c. Bar Cutter	1	10.55	1,758.00	18,549.04
d. Bar Bender	1	10.55	2,812.00	29,670.03
Sub-total for B				134,682.81
C. Total (A + B)				209,178.64
D. Output / day 1,440.00 Kg./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Reinforcing Steel Bars, Grade 40 (w/ 5% wastage)	26,589.07	kg.	40.20	1,068,880.78
b. Tie Wire (2% of RSB)	558.37	kg.	92.00	51,370.09
Sub-total for E				1,120,250.87
F. Direct Unit Cost (C + E)				1,329,429.51
G. Overhead Contingencies & Miscellaneous (OCM)		8%		106,354.36
H. Contractors Profit (CP)		8%		106,354.36
I. Value Added Tax (VAT)		5%		77,106.91
J. Total Unit Cost				63.94

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City
Item No./Description : 404(1)b Reinforcing Steel Bar, (Grade 60)
Unit of Measurement : Kgs.
Output per hour : 480.00 Kg./hr.
Quantity : 589,813.91

Note: Use three (3) gang of labor and equipment

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	153.60	611.92	93,989.30
b. Skilled Laborer	6	153.60	443.20	408,446.13
c. Laborer	24	153.60	342.24	1,261,611.96
Sub-total for A				1,764,047.40
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Truck Mounted Crane (31-35 MT)	3	38.40	14,888.00	1,715,068.27
b. Cargo Truck (10T, 270 Hp)	3	38.40	9,696.00	1,116,960.10
c. Bar Cutter	3	107.52	1,758.00	567,050.78
d. Bar Bender	3	107.52	2,812.00	907,023.21
Sub-total for B				4,306,102.36
C. Total (A + B)				6,070,149.75
D. Output / day 3,840.00 Kg./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Reinforcing Steel Bars, Grade 40 (w/ 5% wastage)	619,304.61	kg.	44.41	27,503,357.69
b. Tie Wire (2% of RSB)	13,005.40	kg.	92.00	1,196,496.50
Sub-total for E				28,699,854.20
F. Direct Unit Cost (C + E)				34,770,003.95
G. Overhead Contingencies & Miscellaneous (OCM)		8%		2,781,600.32
H. Contractors Profit (CP)		8%		2,781,600.32
I. Value Added Tax (VAT)		5%		2,016,660.23
J. Total Unit Cost				71.80

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City
Item No./Description : 405(1)b3 Structural Concrete, 27.58 Mpa
Unit of Measurement : cu.m.
Output per hour : 10.00 cu.m./hr.
Quantity : 3,601.08

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	45.01	611.92	27,544.69
b. Skilled Laborer	4	45.01	443.20	79,800.03
c. Laborer	8	45.01	342.24	123,243.51
Installation & Removal of Formworks/Falseworks: (4 gang)				
a. Construction Foreman	1	225.07	611.92	137,723.47
b. Skilled Laborer	16	225.07	443.20	1,596,000.60
c. Laborer	32	225.07	342.24	2,464,870.24
Sub-total for A				4,429,182.55
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Transit Mixer (5 cu.m.)	2	45.01	10,544.00	949,245.84
b. Concrete Vibrator	2	45.01	730.00	65,719.79
c. Batching Plant (30 cu.m.)	1	27.01	14,076.00	380,166.48
d. Payloader (1.5 cu.m.), LX80-2C	1	27.01	13,864.00	374,440.75
e. Water Truck	1	15.75	19,600.00	308,792.99
f. Crawler Crane w/ Bucket (36-40 MT)	1	27.01	25,017.60	675,678.67
Minor Tools (5% of Labor)				221,459.13
Sub-total for B				2,975,503.65
C. Total (A + B)				7,404,686.19
D. Output / day	80.00 cu.m./day			
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Good Lumber - 4 uses	90,027.11	bd.ft.	38.00	3,421,030.17
b. Marine Plywood (1/2" x 4' x 8') - 4 uses	1,350.41	pcs.	1,100.00	1,485,447.31
c. Assorted CW Nails	900.27	kg.	70.00	63,018.98
d. Portland Cement	39,611.93	bag	283.37	11,224,640.88
e. Sand	1,800.54	cu.m.	1,576.63	2,838,789.20
f. Gravel	3,601.08	cu.m.	1,376.63	4,957,361.52
g. Curing Compound	3,601.08	lit.	35.00	126,037.95
Sub-total for E				24,116,326.00
F. Direct Unit Cost (C + E)				31,521,012.19
G. Overhead Contingencies & Miscellaneous (OCM)		8%		2,521,680.98
H. Contractors Profit (CP)		8%		2,521,680.98
I. Value Added Tax (VAT)		5%		1,828,218.71
J. Total Unit Cost				10,661.40

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 406(1)g10 Prestressed Structural Concrete Members, Type V

Unit of Measurement : each

Output per hour : 0.028 ea./hr.

Quantity : 48.00

Note: Use four (4) gang of labor and equipment

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	216.01	611.92	132,183.18
b. Skilled Laborer	16	216.01	443.20	1,531,797.24
c. Laborer	32	216.01	342.24	2,365,714.29
Launching/Erection				
a. Construction Foreman	1	36.00	611.92	22,029.12
b. Skilled Laborer (Rigger)	4	36.00	443.20	63,820.80
Sub-total for A				4,115,544.62
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Truck Mounted Crane with Bucket (41 - 45 MT)	4	75.60	25,017.60	7,565,806.45
b. Payloader (1.50 m ³), LX80-2C	4	60.00	13,864.00	3,327,360.00
c. Stressing (Jack) Machine	4	120.00	20,000.00	9,600,000.00
d. Bar Cutter	4	180.00	1,758.00	1,265,760.00
e. Bar Bender	4	180.00	2,812.00	2,024,640.00
f. Cutting Outfit	4	90.00	363.60	130,896.00
g. Concrete Vibrator	8	72.00	730.00	420,480.00
h. Plate Compactor (5 Hp)	8	108.00	984.00	850,176.00
i. Grouting Machine, Air Driven	4	30.00	6,930.00	831,600.00
j. Welding Machine (500 A), Electric Driven	4	90.00	3,128.00	1,126,080.00
Minor Tools (10% of Labor)				402,969.47
Launching/Erection				
a. Crawler Crane (51-60 MT)	2	36.00	22,224.00	1,600,128.00
b. Dolly	1	36.00	9,992.00	359,712.00
Minor Tools (10% of Labor)				8,584.99
Sub-total for B				29,514,192.91
C. Total (A + B)				33,629,737.53
D. Output / day 0.22 ea./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Ready Mix Concrete, 5000 psi	1,214.88	cu.m.	4,530.00	5,503,406.40
b. Reinforcing Steel Bar	245,630.40	kgs.	44.41	10,908,461.94
c. PSC Wire Strands (12.70 mmφ)	86,716.80	kgs.	55.00	4,769,424.00
d. Oxy/Acetylene	53.00	set	2,500.00	132,500.00
e. Tie Wire	5,281.44	kgs.	92.00	485,892.48
f. Good Lumber - 2 Uses	69,206.40	bd.ft.	38.00	2,629,843.20
g. Marine Plywood, 1/2" x 4' x 8' - 2 Uses	1,153.44	bd.ft.	1,100.00	1,268,784.00
h. Assorted C.W.N.	1,384.32	kgs.	70.00	96,902.40
i. Duct Tube Galvanized Metal (50mmφ)	9,240.00	m.	250.00	2,310,000.00
j. Anchorage Block (Steel) with accessories	480.00	pc.	350.00	168,000.00
k. Steel Block	96.00	pc.	300.00	28,800.00
l. Packing Tape	240.00	roll	45.00	10,800.00
m. Rubber Hose	1,200.00	m.	33.00	39,600.00
n. Cement (Grouting and Packing)	460.80	bags	283.37	130,574.67
o. Welding Rod	132.00	kgs.	166.00	21,912.00
Miscellaneous (1% of Materials Cost)				285,049.01
Casting Bed				
a. Ready Mix Concrete, 3000 psi @ 14 days	235.20	cu.m.	4,265.00	1,003,128.00
b. Coco Lumber	18,816.00	bd.ft.	25.00	470,400.00
c. Base Course	257.76	cu.m.	956.63	246,581.00
d. Assorted C.W.N.	188.16	kgs.	70.00	13,171.20
Sub-total for E				30,523,230.31
F. Direct Unit Cost (C + E)				64,152,967.84
G. Overhead Contingencies & Miscellaneous (OCM)				8% 5,132,237.43
H. Contractors Profit (CP)				8% 5,132,237.43
I. Value Added Tax (VAT)				5% 3,720,872.13
J. Total Unit Cost				1,627,881.56

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 407(8) Lean Concrete

Unit of Measurement : cu.m.

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

Quantity : 102.95

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	9.19	611.92	5,624.53
b. Skilled Laborer	4	9.19	443.20	16,294.88
c. Laborer	8	9.19	342.24	25,165.89
Sub-total for A				47,085.29
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. One Bagger Mixer	1	9.19	1,376.00	12,647.65
b. Concrete Vibrator	1	9.19	730.00	6,709.87
c. Water Truck	1	0.92	19,600.00	18,015.55
Minor Tools (5% of Labor)				2,354.26
Sub-total for B				39,727.34
C. Total (A + B)				86,812.63
D. Output / day 11.20 cu.m./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Form Lumber	8.49	bd.ft.	38.00	322.74
b. Marine Plywood (1/2" x 4' x 8')	41.18	pcs.	1,100.00	45,296.24
c. Assorted CW Nails	102.95	kg.	70.00	7,206.22
d. Portland Cement	823.57	bag	283.37	233,370.49
e. Sand	51.47	cu.m.	1,576.63	81,153.89
f. Gravel	102.95	cu.m.	1,376.63	141,718.57
Sub-total for E				509,068.14
F. Direct Unit Cost (C + E)				595,880.78
G. Overhead Contingencies & Miscellaneous (OCM)		8%		47,670.46
H. Contractors Profit (CP)		8%		47,670.46
I. Value Added Tax (VAT)		5%		34,561.09
J. Total Unit Cost				7,050.13

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 412(1) Elastomeric Bearing Pads

Unit of Measurement : each

Output per hour : 1.00 ea./hr.

Quantity : 96.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	12.00	611.92	7,343.04
b. Laborer	2	12.00	342.24	8,213.76
Sub-total for A				15,556.80
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Wood/Steel Ladder	1	12.00	800.00	9,600.00
Minor Tools (5% of Labor)				777.84
Sub-total for B				10,377.84
C. Total (A + B)				25,934.64
D. Output / day	8.00 cu.m./day			
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Elastomeric Bearing Pad (70mm thk.- DURO 60)	96.00	pcs.	40,000.00	3,840,000.00
Miscellaneous (10% of Labor)				1,555.68
Sub-total for E				3,841,555.68
F. Direct Unit Cost (C + E)				3,867,490.32
G. Overhead Contingencies & Miscellaneous (OCM)		8%		309,399.23
H. Contractors Profit (CP)		8%		309,399.23
I. Value Added Tax (VAT)		5%		224,314.44
J. Total Unit Cost				49,068.78

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 413(3)b Premoulded Expansion Joint Filler with Sealant

Unit of Measurement : cu.m.

Output per hour : 1.00 cu.m./hr.

Quantity : 79.72

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	9.97	611.92	6,097.78
b. Skilled Laborer	1	9.97	443.20	4,416.49
c. Laborer	1	9.97	342.24	3,410.42
Sub-total for A				13,924.69
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Wood/Steel Ladder	1	9.97	800.00	7,972.00
Minor Tools (5% of Labor)				696.23
Sub-total for B				8,668.23
C. Total (A + B)				22,592.93
D. Output / day 8.00 cu.m./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Premoulded Expansion Joint Filler	83.71	cu.m.	55.00	4,603.83
Miscellaneous (10% of Labor)				1,392.47
Sub-total for E				5,996.30
F. Direct Unit Cost (C + E)				28,589.23
G. Overhead Contingencies & Miscellaneous (OCM)		8%		2,287.14
H. Contractors Profit (CP)		8%		2,287.14
I. Value Added Tax (VAT)		5%		1,658.18
J. Total Unit Cost				436.80

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 413(7)a1 Expansion Dam for Bridges (Steel)

Unit of Measurement : Set

Output per hour : - set/hr.

Quantity : 4.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	30.00	611.92	18,357.60
b. Skilled Laborer	6	30.00	443.20	79,776.00
c. Laborer	6	30.00	342.24	61,603.20
Sub-total for A				159,736.80
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Truck Mounted Crane (41-45 MT)	1	30.00	20,848.00	625,440.00
b. Welding Machine (Electric Driven)	2	22.50	3,128.00	140,760.00
c. Generator Set	1	22.50	21,275.52	478,699.20
d. Cutting Outfit	2	22.50	363.84	16,372.80
Minor Tools (10% of Labor)				15,973.68
Sub-total for B				1,277,245.68
C. Total (A + B)				1,436,982.48
D. Output / day - Kg./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Structural Steel - MS Plate	3,596.87	kg.	47.00	169,052.89
b. Structural Steel - Angular Bar	1,786.03	kg.	48.00	85,729.44
c. 20mm Plain (Rod) Bar	101.74	kg.	40.00	4,069.60
c. Welding Rod	3.00	kg.	166.00	498.00
d. Oxy/Acetylene	2.00	set	2,500.00	5,000.00
Miscellaneous (5% of Materials)				13,217.50
Sub-total for E				277,567.43
F. Direct Unit Cost (C + E)				1,714,549.91
G. Overhead Contingencies & Miscellaneous (OCM)		8%		137,163.99
H. Contractors Profit (CP)		8%		137,163.99
I. Value Added Tax (VAT)		5%		99,443.89
J. Total Unit Cost				522,080.45

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : 414(1) Forms and Falseworks

Unit of Measurement : ls

Output per hour : 1.00 ea./hr.

Quantity : 1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	24.00	611.92	14,686.08
b. Skilled Laborer	4	24.00	443.20	42,547.20
c. Laborer	8	24.00	342.24	65,710.08
Sub-total for A				122,943.36
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
Minor Tools (10% of Labor)				12,294.34
Sub-total for B				12,294.34
C. Total (A + B)				135,237.70
D. Output / day 8.00 cu.m./day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Forms and Falseworks	1.00	ls.	1,500,000.00	1,500,000.00
Sub-total for E				1,500,000.00
F. Direct Unit Cost (C + E)				1,635,237.70
G. Overhead Contingencies & Miscellaneous (OCM)		8%		130,819.02
H. Contractors Profit (CP)		8%		130,819.02
I. Value Added Tax (VAT)		5%		94,843.79
J. Total Unit Cost				1,991,719.51

DETAILED UNIT PRICE ANALYSIS

Name of Project : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : A.1.1(3) Construction of Field Office for the Engineer, (7.00m x 9.00m)

Unit of Measurement : l.s.

Output per Hour : 1.00

Quantity : 1.00

Description		No. of Persons	No. of Days	Rate/Day	Amount
A. Labor	a. Construction Foreman	1	24.00	611.92	14,686.08
	c. Skilled	3	24.00	443.20	31,910.40
	d. Laborer	5	24.00	342.24	41,068.80
	Sub-total for A				87,665.28
Name and Capacity		No. of Units	No. of Days	Rate/Day	Amount
B. Equipment, (2014 Acel Rates)	a. Bagger Mixer	1	12.00	1,376.00	16,512.00
	b. Water Truck (16000L)	1	1.00	8,520.00	8,520.00
	Minor Tools (10% of Labor)				8,766.53
	Sub-total for B				33,798.53
C. Total (A + B)					121,463.81
D. Output / day		- Sq.m./day			
Name and Specification of Materials		No. of Units	Unit	Unit Cost	Amount
E. Materials	I. Earthworks (Excavation, Embankment, Bedding)				
	a. Gravel Bedding G-1	5.00	cu.m.	1,100.00	5,500.00
	b. Selected Fill	6.00	cu.m.	462.00	2,772.00
	c. Soil Poisoning	1.00	lit.	1,183.00	1,183.00
	II. Concrete Works (Footing, Column, Beams)				
	Slab on Grade)				
	a. Portland Cement	75.00	bag	283.37	21,252.39
	b. Crushed Gravel G-1"	10.00	cu.m.	1,100.00	11,000.00
	c. Washed Sand	4.00	cu.m.	1,300.00	5,200.00
	III. Reinforcing Bars (Footing Columns, Beams)				
	Slab on Grade)				
	a. Deformed Round Bar, Grade 40	540.00	kg.	39.00	21,060.00
	b. No. 16 G.I. Tie Wire	12.00	kg.	80.00	960.00
	IV. Formworks (Columns & Beams)				
	a. Coco Lumber	240.00	bd.ft.	15.00	3,600.00
	b. Ordinary Plywood, 1/4"x4"x8'	10.00	pc.	395.00	3,950.00
	c. CWN, Assorted	5.00	kg.	80.00	400.00
	V. Masonry Works (Masonry Wall & Plastering)				
	a. CHB 6" Thk.	800.00	pc.	25.00	20,000.00
	b. Portland Cement	60.00	bag	283.37	17,001.91
	c. Washed Sand	7.00	cu.m.	1,300.00	9,100.00
	d. 10mm dia. x6m RSB	145.00	kg.	39.00	5,655.00
	e. No. 16 G.I. Tie Wire	1.53	kg.	80.00	122.40
	VI. Doors And Window				
	a. D-1, Hollow Core Flush Type Swing Door w/ Marine Plywood	2.00	set	1,814.40	3,628.80
	b. W-1, Jalousie Window with Clear Glass Blades on Standard	2.00	set	1,273.44	2,546.88
	c. W-2, Jalousie Window with Clear Glass Blades on Standard	2.00	set	2,546.88	5,093.76

Name and Specification of Materials	No. of Units	Unit	Unit Cost	Amount
VII. Steel Works				
a. 65 x 65 x 6mm. L	760.00	kg.	48.00	36,480.00
b. 50 x 50 x 6mm. L	370.00	kg.	48.00	17,760.00
c. 50 x 50 x 4mm. L	220.00	kg.	48.00	10,560.00
d. Purlins C- 150 x 50 x 3mm.	31.79	kg.	48.00	1,525.92
e. 16mm. Dia. Cross Bracing	58.34	kg.	39.00	2,275.26
f. 16mm. Dia. Turn Buckle	24.00	pc.	150.00	3,600.00
g. 12mm. Thk. Base Plate	42.38	kg.	50.00	2,119.00
h. 10mm. Thk. Batten Plate	29.08	kg.	50.00	1,454.00
i. 12mm. Dia. Sag Rod	13.12	kg.	39.00	511.68
j. 20mm. Dia x 350mm. Anchor Bolts	12.00	pc.	99.25	1,190.94
k. Welding Rod	20.00	kg.	135.00	2,700.00
l. Primer , Zinc Cromate	2.00	gal.	791.00	1,582.00
VIII Roofing Works				
a. Pre-Painted G.I. Roofing Sheet Long Span, Ga.26	80.00	sq.m.	420.00	33,600.00
b. Pre-Painted Ridge Roll Ga.24, 0.60m. Width	8.00	ln.m.	190.00	1,520.00
c. Pre-Painted Flashing, Ga.24	9.00	ln.m.	190.00	1,710.00
d. Teckscrew 1-1/2"	900.00	pc.	1.00	900.00
e. Roof Sealant	1.00	lit.	435.00	435.00
IX Carpentry Works				
a. Rough Lumber, Sun Dried Tanguile	675.00	bd.ft.	40.00	27,000.00
b. Plywood, Ordinary 1/4" x 4"x 8"	30.00	pc.	533.00	15,990.00
c. Finishing Nails	3.00	kg.	100.00	300.00
d. Common Wire Nails	6.00	kg.	80.00	480.00
X Electrical Works				
a. 2 x 40w Fluorescent Lighting Fixture	5.00	set	1,260.00	6,300.00
b. Porcelain Ceiling Outlet w/ Female Socket	1.00	pc.	60.00	60.00
c. Duplex Convenience Outlet	4.00	pc.	170.00	680.00
d. Two Gang Switch	2.00	pc.	132.00	264.00
e. 3.5mm2 THW	2.00	roll	1,200.00	2,400.00
f. 8.0mm2 THW	20.00	m.	38.00	760.00
g. 19mm. dia. PVC Pipe	24.00	pc.	96.00	2,304.00
h. 19mm. dia. PVC Coupling	15.00	pc.	9.00	135.00
i. 19mm. dia. PVC Elbow	20.00	pc.	9.00	180.00
j. 19mm. dia. PVC Clamp	50.00	pc.	15.00	750.00
k. 25mm. dia. RSC Pipe	3.00	pc.	766.00	2,298.00
l. 25mm. dia. RSC Coupling	2.00	pc.	23.00	46.00
m. 25mm. dia. RSC Elbow	2.00	pc.	21.00	42.00
n. 25mm. dia. RSC Clamp	9.00	pc.	25.00	225.00
o. 25mm. dia. Service Entrance Cap	1.00	pc.	201.00	201.00
p. Wire Holder	1.00	pc.	90.00	90.00
q. Utility Box	6.00	pc.	32.00	192.00
r. Octagonal Box	7.00	pc.	34.00	238.00
s. Electrical Tape (Big)	6.00	pc.	31.00	186.00
t. Panel Board (Side Main w/ Branches)	1.00	set	1,627.00	1,627.00
XI Painting Works				
a. Latex, Flat	4.00	gal.	605.00	2,420.00
b. Latex, Semi Gloss	4.00	gal.	605.00	2,420.00
c. Neutralizer	10.00	litr.	120.00	1,200.00
d. Acri Color	2.00	qrt.	180.00	360.00
e. Masonry Putty	1.00	kg.	148.00	148.00
f. Enamel, Flat Wall	3.00	gal.	870.00	2,610.00
g. Enamel, Semi Gloss	3.00	gal.	870.00	2,610.00
h. Paint Thinner	2.00	gal.	322.00	644.00
i. Glazing Putty	1.00	gal.	150.00	150.00
j. Paint Brush	4.00	pc.	85.00	340.00
k. Paint Roller and Tray	2.00	pc.	75.00	150.00
l. Laquer Thinner	1.00	gal.	450.00	450.00

Name and Specification of Materials		No. of Units	Unit	Unit Cost	Amount
XII Plumbing Works					
a.	Water Closet (Including Fittings and Accessories)	1.00	set	8,820.00	8,820.00
b.	Lavatory (Including Fittings and Accessories)	1.00	set	4,390.00	4,390.00
c.	1/2" G.I. Pipe S-40	2.00	pc.	400.00	800.00
d.	1/2" Water Faucet (Bronze)	2.00	pc.	315.00	630.00
e.	1/2" Assorted Connector	6.00	pc.	35.00	210.00
f.	4" PVC series 1000	1.00	pc.	735.00	735.00
g.	2" PVC series 1000	2.00	pc.	346.00	692.00
h.	4" PVC Assorted Connector	6.00	pc.	73.00	438.00
i.	2" PVC Assorted Connector	8.00	pc.	50.00	400.00
Sub-total for E					353,314.94
F.	Direct Cost (C + E)				474,778.75
G.	Overhead Contigencies and Miscellaneous (OCM)		8%		37,982.30
H.	Contractor's profit (CP)		8%		37,982.30
I.	Value Added Tax (VAT)		5%		27,537.17
J.	Total Unit Cost				578,280.51



DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : A.1.1(11) Provision of Furnitures/Fixtures, Equipment and Appliances for the
Unit of Measurement : l.s. Field Office for the Field Engineers
Output per hour : -
Quantity : 1.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A					
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost				
Sub-total for B					
C. Total (A + B)					
D. Output / day					
Name and Specification		Quantity	Unit	Unit Cost	Total
E.	Materials				
	Office Equipment/Facilities & Supplies				
	a. Office Table,Excecutive Type w/ chair	1.00	unit	8,000.00	8,000.00
	b. 1/2" Wooden Office Table	1.00	each	3,500.00	3,500.00
	c. Drawing Table	1.00	unit	6,000.00	6,000.00
	d. Electric Desk Fan	2.00	unit	2,000.00	4,000.00
	e. Folding Beds, Good Quality	2.00	each	3,000.00	6,000.00
	f. 6" Sleeping Bed w/pillows and Blanket	2.00	each	5,000.00	10,000.00
	g. Double Burner Gas Stove	1.00	unit	4,500.00	4,500.00
	h. 10 Cups Rice Cooker	1.00	unit	2,500.00	2,500.00
	i. Aluminum Cookware	1.00	set	3,500.00	3,500.00
	j. Plate, Glass, Spoon and Fork	1.00	doz.	2,000.00	2,000.00
	k. 6 Seater Dining Table	1.00	each	2,800.00	2,800.00
	l. Monoblock Backrest Chair	1.00	doz.	3,900.00	3,900.00
	m. Plastic Pail & Basin	2.00	pc.	500.00	1,000.00
	n. White Board	1.00	unit	7,000.00	7,000.00
	o. Bond Paper (Long)	15.00	ream	300.00	4,500.00
	p. Bond Paper (Short)	15.00	ream	270.00	4,050.00
	q. Yellow Pad	4.00	pad	35.00	140.00
	r. White Board Marker (Assorted colors)	8.00	pc.	75.00	600.00
	s. Sign Pen (Assorted Colors)	2.00	doz.	800.00	1,600.00
	t. Ball Pen	2.00	box	180.00	360.00
	u. Mechanical Pencil	3.00	unit	350.00	1,050.00
	v. Pencil Lead, No.5	3.00	box	145.00	435.00
	w. Puncher	2.00	unit	250.00	500.00
	x. Staple Padw/wire	2.00	unit	275.00	550.00
	y. Cutter Blade	2.00	box	238.50	477.00
	z. Scotch Tape	6.00	roll	48.00	288.00
	aa. Brown Envelop	6.00	doz.	125.00	750.00
	bb. Folder, long	5.00	doz.	85.00	425.00
	cc. Folder, short	3.00	doz.	70.00	210.00
	dd. Data File Folder	6.00	pc.	85.00	510.00
	Lighting/Water Fixtures:				
	a. Electric Bill	16.00	mo.	3,500.00	56,000.00
	b. Water Bill	16.00	mo.	2,000.00	32,000.00
	c. LPG Gasul (11 Kg.)	16.00	mo.	1,000.00	16,000.00
Sub-total for E					185,145.00
F.	Direct Unit Cost (C + E)				185,145.00
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		-
H.	Contractors Profit (CP)		8%		14,811.60
I.	Value Added Tax (VAT)		5%		9,997.83
J.	Total Unit Cost				209,954.43

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : A.1.2(5) Operation and Maintenance of 4x4 Pick Up Type Service Vehicle

Unit of Measurement : mos. for the Engineer

Output per hour :

Quantity : 15.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Service Driver	1	384.00	443.20	170,188.80
Sub-total for A					170,188.80
Name and Capacity		No. of Equipment	No. of Mos.	Monthly Rate	Amount
B.	Equipment Cost				-
Sub-total for B					-
C.	Total (A + B)				170,188.80
D. Output / day					
Name and Specification		Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Fuel (20 Liters per Day)	7,680.00	lit.	42.00	322,560.00
	b. Engine Oil Lubricants, Greasing (20 % of Fuel)	1.00	l.s.	64,512.00	64,512.00
	c. Tires	5.00	each	9,500.00	47,500.00
	d. Spare Parts	1.00	l.s.	45,000.00	45,000.00
Sub-total for E					479,572.00
F.	Direct Unit Cost (C + E)				649,760.80
G.	Overhead Contingencies & Miscellaneous (OCM)			8%	-
H.	Contractors Profit (CP)			8%	-
I.	Value Added Tax (VAT)			5%	32,488.04
J.	Total Unit Cost				45,483.26

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : B.4(1) Construction Survey and Staking

Unit of Measurement : km

Output per hour : 0.04

Quantity : 0.47

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
<i>(For Field Works) Output: 0.30 km/day</i>				
a. Geodetic Engineer	1	0.78	906.36	709.98
b. Skilled Laborer	1	0.78	443.20	347.17
c. Laborer	2	0.78	342.24	536.18
<i>(For Office Works) Output: 0.10 km/day</i>				
a. Geodetic Engineer	1	2.35	906.36	2,129.95
b. Skilled Laborer	2	2.35	443.20	2,083.04
Sub-total for A				5,806.32
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Total Station w/ complete accessories	1	0.78	800.00	626.67
Minor Tools (10% of Labor)				580.63
Sub-total for B				1,207.30
C. Total (A + B)				7,013.62
D. Output / day 0.32 km/day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Standard Stake Plan (800mm x 910mm)	50.00	pcs	250.00	12,500.00
b. Blue Printing	250.00	pcs	50.00	12,500.00
Miscellaneous (5% of Materials)				1,250.00
Sub-total for E				26,250.00
F. Direct Unit Cost (C + E)				33,263.62
G. Overhead Contingencies & Miscellaneous (OCM)		8%		2,661.09
H. Contractors Profit (CP)		8%		2,661.09
I. Value Added Tax (VAT)		5%		1,929.29
J. Total Unit Cost				86,202.31

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

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

Unit of Measurement : each

Output per hour :

Quantity : 2.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	2.0	611.92	1,223.84
b. Carpenter	1	2.0	443.20	886.40
c. Laborer	2	2.0	342.24	1,368.96
Sub-total for A				3,479.20
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2009 ACEL Rates)				
Sub-total for B				-
C. Total (A + B)				3,479.20
D. Output / day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. 1/4" thk. 4' x 8' Marine Plywood	2.00	pc.	610.00	1,220.00
b. Tarpaulin (4' x 8')	2.00	pc.	1,200.00	2,400.00
c. Assorted Sizes Lumber	150.00	bd.ft.	38.00	5,700.00
d. C.W. Nails, Assorted Sizes	2.00	kg.	70.00	140.00
Sub-total for E				9,460.00
F. Direct Unit Cost (C + E)				12,939.20
G. Overhead Contingencies & Miscellaneous (OCM)		8%		1,035.14
H. Contractors Profit (CP)		8%		1,035.14
I. Value Added Tax (VAT)		5%		750.47
J. Total Unit Cost				7,879.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City
Item No./Description : B.7(2) Occupational Safety and Health Program
Unit of Measurement : l.s.
Output per hour :
Quantity : 1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Safety Practitioner	1	96.00	611.92	58,744.32
b. First Aider	1	384.00	443.20	170,188.80
Sub-total for A				228,933.12
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost				
Sub-total for B				-
C. Total (A + B)				228,933.12
D. Output / day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Pairs, Rubber Boots Men, Long with Steel Toe, Black	150.00	pair	500.00	75,000.00
b. Pairs, Working Gloves (Leather Materials)	150.00	pair	200.00	30,000.00
c. Pairs, Rain Coats (Raincoats, hip length small, medium & large)	150.00	pc.	200.00	30,000.00
d. Hard Hat	150.00	pc.	350.00	52,500.00
e. Medical Supplies	1.00	set	5,000.00	5,000.00
Sub-total for E				192,500.00
F. Direct Unit Cost (C + E)				421,433.12
G. Overhead Contingencies & Miscellaneous (OCM)		0%		-
H. Contractors Profit (CP)		8%		33,714.65
I. Value Added Tax (VAT)		5%		22,757.39
J. Total Unit Cost				477,905.16

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
 Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : B.8(2) Traffic Management

Unit of Measurement : l.s.

Output per hour :

Quantity : 1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	384.00	611.92	234,977.28
b. Laborer	8	384.00	342.24	1,051,361.28
Sub-total for A				1,286,338.56
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost				
Sub-total for B				-
C. Total (A + B)				1,286,338.56
D. Output / day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Warning Signs and Barricades	1.00	l.s.	250,000.00	250,000.00
Sub-total for E				250,000.00
F. Direct Unit Cost (C + E)				1,536,338.56
G. Overhead Contingencies & Miscellaneous (OCM)				0%
H. Contractors Profit (CP)				8%
I. Value Added Tax (VAT)				5%
J. Total Unit Cost				1,742,207.93

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Flyovers/Interchanges/Underpasses/Long Span Bridges
Jct. T. Taupan Street (Suterville/Gavilan) Flyover, including ROW, Zamboanga City

Item No./Description : B.9 Mobilization & Demobilization

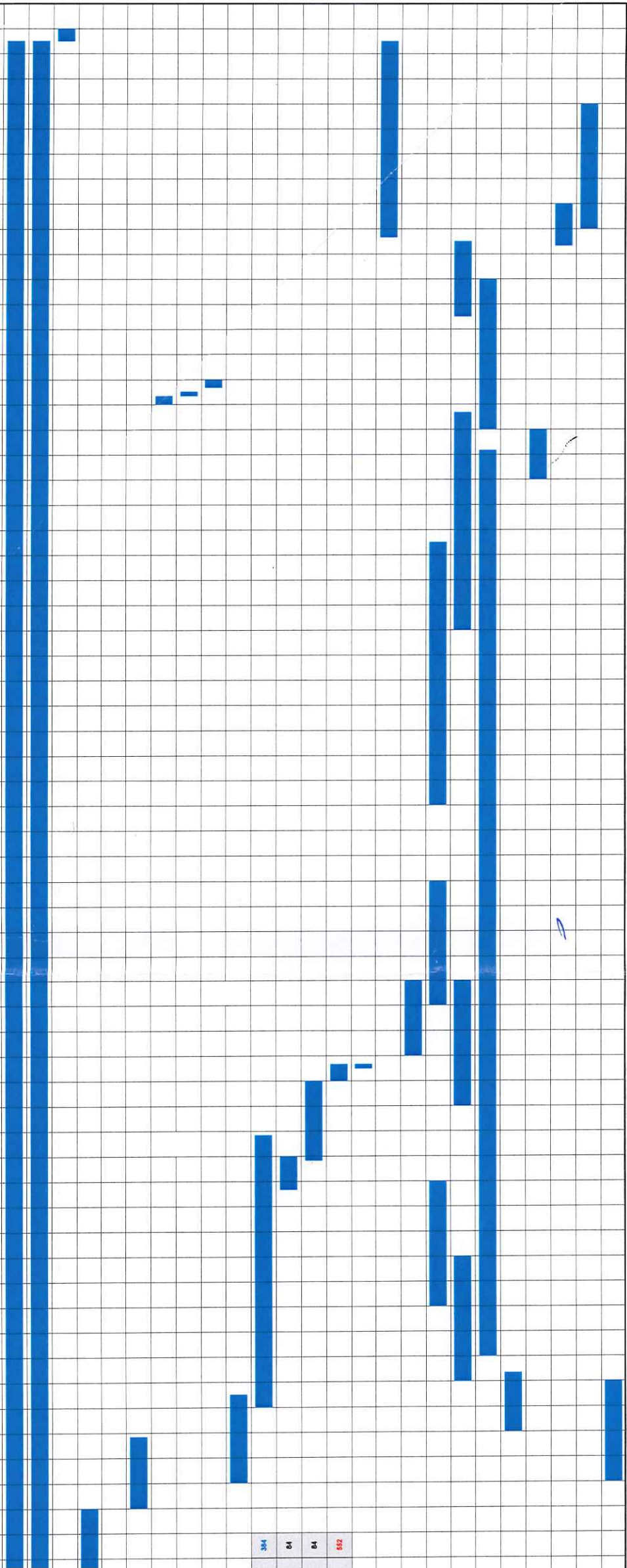
Unit of Measurement : l.s.

Output per hour :

Quantity : 1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				-
Sub-total for A				
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2014 ACEL Rates)				
a. Transit Mixer (5 cu.m.)	2	6.00	10,544.00	126,528.00
b. Payloader (1.50 cu.m.), LX80-2C	2	6.00	13,864.00	166,368.00
c. Dump Truck (10 cu.m.)	2	6.00	11,360.00	136,320.00
d. Bulldozer (155 HP), D65A-8	1	6.00	27,032.00	162,192.00
e. Drilling Rig	1	3.00	101,096.00	303,288.00
f. Backhoe (0.80 cu.m.)	2	3.00	12,296.00	73,776.00
g. Vibratory Roller (10 m.t.), SP56	1	3.00	17,384.00	52,152.00
h. Motorized Road Grader, G710A	1	3.00	14,768.00	44,304.00
i. Water Truck	2	6.00	19,600.00	235,200.00
j. Cargo Truck (10T)	2	6.00	6,264.00	75,168.00
k. Conc. Mixer (1 bagger)	2	6.00	1,376.00	16,512.00
l. Crawler Crane (41-45 MT)	2	6.00	17,208.00	206,496.00
Sub-total for B				1,598,304.00
C. Total (A + B)				1,598,304.00
D. Output / day				
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				-
Sub-total for E				
F. Direct Unit Cost (C + E)				1,598,304.00
G. Overhead Contingencies & Miscellaneous (OCM)		8%		-
H. Contractors Profit (CP)		8%		-
I. Value Added Tax (VAT)		5%		79,915.20
J. Total Unit Cost				1,678,219.20

[Handwritten signature]



Submitted by:

[Signature]
LEONCIO B. SOLAMILLO
Chief, Construction Division

Recommending Approval:

[Signature]
CAYANORBAO D. DIA
Assistant Regional Director

Approved:

[Signature]
JORGE H. SERRANO JR., CESO III
Regional Director