

Department of Public Works and Highways

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

PROGRAM OF WORK

(For all types of Project)

Date : April 25, 2017

NAME OF PROJECT : Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD	Appropriation	:	P	200,000,000.00
	Source of Funds	:		CY-2017 GAA
LOCATION: Zamboanga City	Issued Obligated Authority	:		
	Released	:		
PROJECT CATEGORY : NATIONAL ROAD	Cal. Days to Complete	:	360	Calendar Days
	Desirable Starting Date	:		upon approval
	Mode of Implementation	:		by contract
PROJECT DESCRIPTION :		Limits:		
Scope of Work	:	Bridge		
Road Width	:	6.70 m.		
Roadbed Width	:	12.00 m.		
Subbase Course	:	0.30 m. thk.		
Surface Course	:	0.15 m. thk.		
		<u>San Roque Br.:</u>	Distance	
		Beg. Of Proj. 1982+580.00	190.00 m.	
		Abutment A 1982+770.00	45.84 m.	
		Abutment B 1982+815.84	220.16 m.	
		Eng Of Proj. 1983+036.00		
		<u>Malagutay Br.:</u>		
		Abutment A 1980+057.60	30.84 m.	
		Abutment B 1980+088.44		
		<u>Ecozone Fence:</u>		
		Beg. Of Proj. 1961+983.00	3,020.65 m.	
		End Of Proj. 1965+003.65		
		Approaches Net Length:	410.16 In.m.	
		Bridge Length:	76.68 In.m.	
		Fencing Length:	3,020.65 In.m.	

MINIMUM EQUIPMENT REQUIREMENT :			TECHNICAL PERSONNEL REQUIRED :		
Description	No.	Description	No.	Description	No.
Dump Truck	12	Water Pump	1	Project Engineer	1
Transti 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		
Crane with Bucket	1	Stressing Jack	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(3)	Construction of Field Office for the Engineer	0.25	L.S.	1.00	397,894.17	397,894.17
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	0.18	L.S.	1.00	285,338.03	285,338.03
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	0.24	month	12.00	375,375.20	31,281.27

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART B - OTHER GENERAL REQUIREMENTS						
B.4(1)	Construction Survey & Staking	0.09	km.	3.51	139,354.70	39,730.60
B.5	Project Billboard/Signboard	0.01	each	2.00	10,259.20	5,129.60
B.7	Occupation Safety and Health Program	0.25	month	12.00	386,227.20	32,185.60
B.9	Mobilization & Demobilization	0.97	L.S.	1.00	1,525,935.00	1,525,935.00
PART C - EARTHWORKS						
104(1)a	Embankment, from Excavation	13.41	cu.m.	91,630.00	21,073,089.68	229.98
104(2)a	Embankment, Common Borrow	37.04	cu.m.	88,564.00	58,186,729.56	657.00
105(1)a	Subgrade Preparation	0.03	sq.m.	3,304.00	52,792.96	15.98
PART D - SUBBASE AND BASE COURSE						
200(1)	Aggregate Subbase Course	1.45	cu.m.	2,091.00	2,270,990.14	1,086.08
PART E - SURFACE COURSES						
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thk.	3.53	sq.m.	3,744.00	5,546,902.95	1,481.54
311(1)a	Portland Cement Concrete Pavement, 0.15 m. thk.	0.89	sq.m.	1,711.00	1,397,424.69	816.73
PART F - BRIDGE CONSTRUCTION						
103(2)a	Bridge Excavation Above Ordinary Water Level	0.05	cu.m.	325.00	75,013.17	230.81
103(2)b	Bridge Excavation Below Ordinary Water Level	0.58	cu.m.	973.00	903,867.13	928.95
400(4)a1	Precast Concrete Piles, Furnished	6.22	ln.m.	2,424.00	9,771,638.05	4,031.20
400(6)	Structural Steel Sheet Piles, Furnished	4.29	ln.m.	2,742.00	6,745,254.31	2,459.98
400(12)	Structural Steel Sheet Piles, Driven	1.11	ln.m.	2,364.00	1,740,132.13	736.10
400(14)	Precast Concrete Piles, Driven	2.49	ln.m.	2,296.00	3,917,720.92	1,706.32
400(16)a	Test Piles, Furnished and Driven (400 mm. x 400 mm.)	0.33	ln.m.	112.00	517,017.20	4,616.23
400(16)b	Test Piles, Furnished and Driven (Sheet Piles)	0.03	ln.m.	12.00	39,758.65	3,313.22
401(2)a	Concrete Railing	0.38	ln.m.	150.00	597,847.14	3,985.65
402(1)	Timber Structures (Craneway)	1.35	ln.m.	24.00	2,119,145.72	88,297.74
403(1)	Structural Steel, Furnished, Fabricated and Erected	0.30	kg.	2,496.00	478,583.65	191.74
404(1)a	Reinforcing Steel, Grade 40	0.32	kg.	10,558.58	509,240.02	48.23
404(1)b	Reinforcing Steel, Grade 60	5.48	kg.	168,314.43	8,607,068.71	51.14
405(1)b2	Structural Concrete, Class "A"	5.11	cu.m.	1,034.98	8,029,818.07	7,758.43
406(1)a4	Prestressed Concrete AASHTO Girder (Type IV-B), L = 30 m.	2.22	each	4.00	3,488,913.55	872,228.39
407(8)	Lean Concrete	0.08	cu.m.	26.00	122,120.24	4,696.93
412(1)	Elastomeric Bearing Pad	0.17	each	16.00	260,456.33	16,278.52
414(1)	Forms and Falsework	1.35	L.S.	3.00	2,118,614.48	706,204.83
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES						
505(2)a	Grouted Riprap, Class A	2.15	cu.m.	1,058.00	3,372,504.61	3,187.62
507(1)	Rubble Concrete	0.12	cu.m.	69.00	188,739.02	2,735.35
508(1)	Handlaid Rock Embankment	0.72	cu.m.	732.92	1,130,701.09	1,542.73
404(1a)	Reinforcing Steel Bar, Grade 40	0.11	kg.	3,554.64	167,340.50	47.08
405(1)a2	Structural Concrete, Class "A"	0.34	cu.m.	82.80	540,041.83	6,522.24
PART H - MISCELLANEOUS STRUCTURES						
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.04	sq.m.	91.00	66,424.29	729.94
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	0.04	sq.m.	69.00	55,558.52	805.20
622(1a)	Coconet Bio-Engineering Solutions, Coco-net (CN400)	0.81	sq.m.	9,246.00	1,266,351.21	136.96
622(2)	Coconet Bio-Engineering Solutions, Coco-logs/Fascine (CN200)	0.14	ln.m.	490.00	225,991.36	461.21
622(3)	Coconet Bio-Engineering Solutions, Vegetation	1.65	sq.m.	9,246.00	2,596,212.08	280.79
803(1)a	Structure Excavation	0.19	cu.m.	1,269.00	292,016.76	230.12
804(1)a	Embankment	0.30	cu.m.	725.00	476,140.85	656.75
404(1a)	Reinforcing Steel Bar, Grade 40	0.62	kg.	20,752.00	976,934.41	47.08
405(1)a2	Structural Concrete, Class "A"	1.54	cu.m.	370.00	2,413,230.39	6,522.24
604(1)	Fencing Barbed Wire	0.12	ln.m.	9,072.00	193,160.57	21.29
604(2)	Fencing Chain Link (Cyclone Wire)	0.57	ln.m.	2,822.40	903,062.24	319.96
604(3)	Fencing Post (Steel Pipe)	0.18	each	504.50	281,700.72	558.38
604(4)	Fencing Frames (Steel Pipe)	0.17	each	1,344.00	260,368.30	193.73
TOTAL		100.00			P 157,097,001.70	

NAME OF PROJECT : Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Zamboanga City

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Labor	3.57	7,147,570.30
A.2. Equipment Expenses	20.75	41,502,798.12
A.3. Materials	54.22	108,446,633.28
SUB-TOTAL (DIRECT COST)	78.55	P 157,097,001.70
B. INDIRECT COST (Per D.O. # 197, s. 2016)		
B.1. Overhead, Contingency & Misc. (8 % Max. of D.C.)	6.18	12,361,930.10
B.2. Profit (8 % Max. of D.C.)	6.21	12,415,655.32
C. VAT (5% of D.C. and I.C. Per D.O. # 197, s. 2016)	4.55	9,093,729.36
SUBTOTAL (CONTRACT COST)	95.48	P 190,968,316.48
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.5%)	3.50	7,000,000.00
2. Detailed Engineering (1%)		
3. Reserved for the Payment of RROW	1.02	2,031,683.52
4. Physical Reserved		
TOTAL ESTIMATED PROJECT COST	100.00	P 200,000,000.00

Prepared :	Checked :
<u>ELWICK P. ACUÑA</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	

APPROVED BUDGET FOR THE CONTRACT

Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

San Roque	Beg. Of Proj. - Abutment A	<u>1982+580.00</u>	to	<u>1982+770.00</u>
	Abutment A - Abutment B	<u>1982+770.00</u>	to	<u>1982+815.84</u>
	Abutment B - End of Proj.	<u>1982+815.84</u>	to	<u>1983+036.00</u>
Malagutay	Abutment A - Abutment B	<u>1980+057.60</u>	to	<u>1980+088.44</u>
Fencing	Beg. Of Proj. - End of Project	<u>1961+983.00</u>	to	<u>1965+003.65</u>
	Approaches Net Length	410.16 Ln.m.		
	Bridges Net Length	76.68 Ln.m.		
	Fencing Length	3,020.65 Ln.m.		

Contract Duration : 360 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				
(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(3)	Construction of Field Office for the Engineer	1.00	L.S.	397,894.17	8.00	8.00	16.00	63,663.07	23,077.86	86,740.93	484,635.10	484,635.10
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00	L.S.	285,338.03	-	8.00	8.00	22,827.04	15,408.25	38,235.30	323,573.33	323,573.33
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	12.00	month	375,375.20	-	-	-	-	18,768.76	18,768.76	394,143.96	32,845.33
TOTAL OF PART A				1,058,607.40				86,490.11	57,254.88	143,744.98	1,202,352.38	
PART B - OTHER GENERAL REQUIREMENTS												
B.4(1)	Construction Survey & Staking	3.51	km.	139,354.70	8.00	8.00	16.00	22,296.75	8,082.57	30,379.32	169,734.02	48,391.88
B.5	Project Billboard/Signboard	2.00	each	10,259.20	8.00	8.00	16.00	1,641.47	595.03	2,236.51	12,495.71	6,247.85
B.7	Occupation Safety and Health Program	12.00	month	386,227.20	-	8.00	8.00	30,898.18	20,856.27	51,754.44	437,981.64	36,498.47
B.9	Mobilization & Demobilization	1.00	L.S.	1,525,935.00	-	-	-	-	76,296.75	76,296.75	1,602,231.75	1,602,231.75
TOTAL OF PART B				2,061,776.10				54,836.40	105,830.62	160,667.02	2,222,443.12	
PART C - EARTHWORKS												
104(1)a	Embankment, from Excavation	91,630.00	cu.m.	21,073,089.68	8.00	8.00	16.00	3,371,694.35	1,222,239.20	4,593,933.55	25,667,023.24	280.12
104(2)a	Embankment, Common Borrow	88,564.00	cu.m.	58,186,729.56	8.00	8.00	16.00	9,309,876.73	3,374,830.31	12,684,707.04	70,871,436.60	800.23
105(1)a	Subgrade Preparation	3,304.00	sq.m.	52,792.96	8.00	8.00	16.00	8,446.87	3,061.99	11,508.87	64,301.83	19.46
TOTAL OF PART C				79,312,612.20				12,690,017.95	4,600,131.51	17,290,149.46	96,602,761.67	
PART D - SUBBASE AND BASE COURSE												
200(1)	Aggregate Subbase Course	2,091.00	cu.m.	2,270,990.14	8.00	8.00	16.00	363,358.42	131,717.43	495,075.85	2,766,065.99	1,322.84
TOTAL OF PART D				2,270,990.14				363,358.42	131,717.43	495,075.85	2,766,065.99	
PART E - SURFACE COURSES												
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thk.	3,744.00	sq.m.	5,546,902.95	8.00	8.00	16.00	887,504.47	321,720.37	1,209,224.84	6,756,127.79	1,804.52
311(1)a	Portland Cement Concrete Pavement, 0.15 m. thk.	1,711.00	sq.m.	1,397,424.69	8.00	8.00	16.00	223,587.95	81,050.63	304,638.58	1,702,063.27	994.78
TOTAL OF PART E				6,944,327.64				1,111,092.42	402,771.00	1,513,863.43	8,458,191.07	
PART F - BRIDGE CONSTRUCTION												
103(2)a	Bridge Excavation Above Ordinary Water Level	325.00	cu.m.	75,013.17	8.00	8.00	16.00	12,002.11	4,350.76	16,352.87	91,366.04	281.13
103(2)b	Bridge Excavation Below Ordinary Water Level	973.00	cu.m.	903,867.13	8.00	8.00	16.00	144,618.74	52,424.29	197,043.04	1,100,910.17	1,131.46
400(4)a1	Precast Concrete Piles, Furnished	2,424.00	ln.m.	9,771,638.05	8.00	8.00	16.00	1,563,462.09	566,755.01	2,130,217.09	11,901,855.14	4,910.01
400(6)	Structural Steel Sheet Piles, Furnished	2,742.00	ln.m.	6,745,254.31	8.00	8.00	16.00	1,079,240.69	391,224.75	1,470,465.44	8,215,719.75	2,996.25
400(12)	Structural Steel Sheet Piles, Driven	2,364.00	ln.m.	1,740,132.13	8.00	8.00	16.00	278,421.14	100,927.66	379,348.80	2,119,480.93	896.57
400(14)	Precast Concrete Piles, Driven	2,296.00	ln.m.	3,917,720.92	8.00	8.00	16.00	626,835.35	227,227.81	854,063.16	4,771,784.09	2,078.30
400(16)a	Test Piles, Furnished and Driven (400 mm. x 400 mm.)	112.00	ln.m.	517,017.20	8.00	8.00	16.00	82,722.75	29,987.00	112,709.75	629,726.95	5,622.56
400(16)b	Test Piles, Furnished and Driven (Sheet Piles)	12.00	ln.m.	39,758.65	8.00	8.00	16.00	6,361.38	2,306.00	8,667.39	48,426.03	4,035.50
401(2)a	Concrete Railing	150.00	ln.m.	597,847.14	8.00	8.00	16.00	95,655.54	34,675.13	130,330.68	728,177.82	4,854.52
402(1)	Timber Structures (Craneway)	24.00	ln.m.	2,119,145.72	8.00	8.00	16.00	339,063.32	122,910.45	461,973.77	2,581,119.49	107,546.65
403(1)	Structural Steel, Furnished, Fabricated and Erected	2,496.00	kg.	478,583.65	8.00	8.00	16.00	76,573.38	27,757.85	104,331.24	582,914.89	233.54
404(1)a	Reinforcing Steel, Grade 40	10,558.58	kg.	509,240.02	8.00	8.00	16.00	81,478.40	29,535.92	111,014.32	620,254.34	58.74
404(1)b	Reinforcing Steel, Grade 60	168,314.43	kg.	8,607,068.71	8.00	8.00	16.00	1,377,130.99	499,209.99	1,876,340.98	10,483,409.69	62.28
405(1)b2	Structural Concrete, Class "A"	1,034.98	cu.m.	8,029,818.07	8.00	8.00	16.00	1,284,770.89	465,729.45	1,750,500.34	9,780,318.41	9,449.77
406(1)a4	Prestressed Concrete AASHTO Girder (Type IV-B), L = 30 m.	4.00	each	3,488,913.55	8.00	8.00	16.00	558,226.17	202,356.99	760,583.15	4,249,496.70	1,062,374.18
407(8)	Lean Concrete	26.00	cu.m.	122,120.24	8.00	8.00	16.00	19,539.24	7,082.97	26,622.21	148,742.45	5,720.86
412(1)	Elastomeric Bearing Pad	16.00	each	260,456.33	8.00	8.00	16.00	41,673.01	15,106.47	56,779.48	317,235.81	19,827.24
414(1)	Forms and Falsework	3.00	L.S.	2,118,614.48	8.00	8.00	16.00	338,978.32	122,879.64	461,857.96	2,580,472.44	860,157.48
TOTAL OF PART F				50,042,209.46				8,006,753.51	2,902,448.15	10,909,201.66	60,951,411.13	

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					
								(9)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(5) x (8)	5%[(5) + (9)]	(10)	(11)	(12)	(13)
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES													
505(2)a	Grouted Riprap, Class A	1,058.00	cu.m.	3,372,504.61	8.00	8.00	16.00	539,600.74	195,605.27	735,206.01	4,107,710.62	3,882.52	
507(1)	Rubble Concrete	69.00	cu.m.	188,739.02	8.00	8.00	16.00	30,198.24	10,946.86	41,145.11	229,884.13	3,331.65	
508(1)	Handlaid Rock Embankment	732.92	cu.m.	1,130,701.09	8.00	8.00	16.00	180,912.17	65,580.66	246,492.84	1,377,193.92	1,879.05	
404(1a)	Reinforcing Steel Bar, Grade 40	3,554.64	kg.	167,340.50	8.00	8.00	16.00	26,774.48	9,705.75	36,480.23	203,820.73	57.34	
405(1)a2	Structural Concrete, Class "A"	82.80	cu.m.	540,041.83	8.00	8.00	16.00	86,406.69	31,322.43	117,729.12	657,770.95	7,944.09	
TOTAL OF PART G				5,399,327.05				863,892.33	313,160.97	1,177,053.30	6,576,380.35		
PART H - MISCELLANEOUS STRUCTURES													
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	91.00	sq.m.	66,424.29	8.00	8.00	16.00	10,627.89	3,852.61	14,480.49	80,904.78	889.06	
612(2)	ReflectORIZED Thermoplastic Pavement Markings (Yellow)	69.00	sq.m.	55,558.52	8.00	8.00	16.00	8,889.36	3,222.39	12,111.76	67,670.28	980.73	
622(1a)	Coconet Bio-Engineering Solutions, Coco-net (CN400)	9,246.00	sq.m.	1,266,351.21	8.00	8.00	16.00	202,616.19	73,448.37	276,064.56	1,542,415.77	166.82	
622(2)	Coconet Bio-Engineering Solutions, Coco-logs/Fascine (CN200)	490.00	ln.m.	225,991.36	8.00	8.00	16.00	36,158.62	13,107.50	49,266.12	275,257.48	561.75	
622(3)	Coconet Bio-Engineering Solutions, Vegetation	9,246.00	sq.m.	2,596,212.08	8.00	8.00	16.00	415,393.93	150,580.30	565,974.23	3,162,186.31	342.01	
803(1)a	Structure Excavation	1,269.00	cu.m.	292,016.76	8.00	8.00	16.00	46,722.68	16,936.97	63,659.65	355,676.41	280.28	
804(1)a	Embankment	725.00	cu.m.	476,140.85	8.00	8.00	16.00	76,182.54	27,616.17	103,798.71	579,939.56	799.92	
404(1a)	Reinforcing Steel Bar, Grade 40	20,752.00	kg.	976,934.41	8.00	8.00	16.00	156,309.51	56,662.20	212,971.70	1,189,906.11	57.34	
405(1)a2	Structural Concrete, Class "A"	370.00	cu.m.	2,413,230.39	8.00	8.00	16.00	386,116.86	139,967.36	526,084.22	2,939,314.61	7,944.09	
604(1)	Fencing Barbed Wire	9,072.00	ln.m.	193,160.57	8.00	8.00	16.00	30,905.69	11,203.31	42,109.00	235,269.57	25.93	
604(2)	Fencing Chain Link (Cyclone Wire)	2,822.40	ln.m.	903,062.24	8.00	8.00	16.00	144,489.96	52,377.61	196,867.57	1,099,929.81	389.71	
604(3)	Fencing Post (Steel Pipe)	504.50	each	281,700.72	8.00	8.00	16.00	45,072.11	16,338.64	61,410.76	343,111.47	680.10	
604(4)	Fencing Frames (Steel Pipe)	1,344.00	each	260,368.30	8.00	8.00	16.00	41,658.93	15,101.36	56,760.29	317,128.59	235.96	
TOTAL OF PART H				10,007,151.70				1,601,144.27	580,414.80	2,181,559.07	12,188,710.77		
TOTAL				157,097,001.70				24,777,585.42	9,093,729.36	33,871,314.78	190,968,316.48		

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 104(1)a Embankment, from Excavation
 Unit of Measurement: cu.m.
 Output per hour: 200.00
 Quantity: 91,630.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
For Excavation Work:				
a. Const. Foreman	1	47.53	611.92	29,086.43
b. Leadman	4	47.53	561.36	106,731.88
c. Unskilled Labor	8	47.53	342.24	130,141.72
Spreading and Compaction				
a. Const. Foreman	1	57.27	611.92	35,043.89
b. Leadman	1	57.27	561.36	32,148.39
c. Unskilled Labor	8	57.27	342.24	156,797.26
use quarduple gang of labor and equipment				
Sub-total for A			P	489,949.57
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	4	47.53	27,032.00	5,139,654.98
b. Payloader (1.50 cu.m.)	4	47.53	13,864.00	2,635,993.51
c. Dump Truck (12 cu.yd.)	8	47.53	11,360.00	4,319,804.72
Spreading and Compaction:				
a. Motorized Road Grader (140 hp), G170A	4	57.27	17,384.00	3,982,239.80
b. Vibratory Roller (10 mt), SD100C	4	57.27	14,768.00	3,382,979.60
c. Water Truck/Pump (16000 L)	4	14.32	19,600.00	1,122,467.50
Sub-total for B			P	20,583,140.12
C. Total (A+B)				21,073,089.68
D. Output/day	1,600.00	cu.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E			P	-
F. Direct Cost (C + E)				21,073,089.68
G. Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		1,685,847.17
H. Contractor's Profit(CP)		8% per D.O. 197, s. 2016		1,685,847.17
I. Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,222,239.20
J. Total Unit Cost				280.12

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 104(2)a Embankment, Common Borrow
 Unit of Measurement: cu.m.
 Output per hour: 200.00
 Quantity: 88,564.00

Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	55.35	611.92	33,871.30
	b. Leadman	4	55.35	561.36	124,290.72
	b. Unskilled Labor	8	55.35	342.24	151,550.72
	use quadruple gang of labor and equipment				
Sub-total for A					P 309,712.74
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G170A	4	55.35	17,384.00	3,848,991.44
	b. Vibratory Roller (10 mt), SD100C	4	55.35	14,768.00	3,269,782.88
	c. Water Truck/Pump (16000 L)	4	13.84	19,600.00	1,084,909.00
Sub-total for B					P 8,203,683.32
C.	Total (A+B)				8,513,396.06
D.	Output/day	1,600.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Common Borrow (with 25% Shrinkage Factor)	110,705.00	cu.m.	448.70	49,673,333.50
Sub-total for E					P 49,673,333.50
F.	Direct Cost (C + E)				58,186,729.56
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		4,654,938.36
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		4,654,938.36
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		3,374,830.31
J.	Total Unit Cost				800.23

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 105(1)a Subgrade Preparation
 Unit of Measurement: sq.m.
 Output per hour: 300.00
 Quantity: 3,304.00

Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.38	611.92	842.41
	b. Unskilled Labor	2	1.38	342.24	942.30
Sub-total for A					P 1,784.71
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	1.38	17,384.00	23,931.97
	b. Vibratory Roller (10 mt), SD100C	1	1.38	14,768.00	20,330.61
	c. Water Truck/Pump (16000 L)	1	0.34	19,600.00	6,745.67
Sub-total for B					P 51,008.25
C.	Total (A+B)				52,792.96
D.	Output/day	2,400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	Sub-total for E				
F.	Direct Cost (C + E)				52,792.96
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		4,223.44
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		4,223.44
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		3,061.99
J.	Total Unit Cost				19.46

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 200(1) Aggregate Subbase Course
 Unit of Measurement: cu.m.
 Output per hour: 50.00
 Quantity: 2,091.00

0.30 m. thk., compacted volume, includes widening

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	5.23	611.92	3,198.81
	b. Unskilled Labor	2	5.23	342.24	3,578.12
Sub-total for A					P 6,776.93
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	5.23	17,384.00	90,874.86
	b. Vibratory Roller (10 mt), SD100DC	1	5.23	14,768.00	77,199.72
	c. Water Truck/Pump (16000 L)	1	1.31	19,600.00	25,614.75
Sub-total for B					P 193,689.33
C.	Total (A+B)				200,466.26
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)	2,404.65	cu.m.	861.05	2,070,523.88
Sub-total for E					P 2,070,523.88
F.	Direct Cost (C + E)				2,270,990.14
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		181,679.21
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		181,679.21
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		131,717.43
J.	Total Unit Cost				1,322.84

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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: 3,744.00

0.28 m. thk., includes widening

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.14	611.92	4,980.50
	b. Skilled Labor	4	8.14	443.20	14,429.05
	c. Unskilled Labor	12	8.14	342.24	33,426.43
Sub-total for A					P 52,835.98
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	8.14	10,544.00	343,275.97
	b. Concrete Vibrator	2	8.14	730.00	11,883.13
	c. Concrete Batch Plant (30 cu.m.)	1	8.14	14,076.00	114,566.40
	d. Payloader (1.50 cu.m.), LX80-2C	1	8.14	13,864.00	112,840.90
	e. Concrete Screeder (5.5 hp)	1	8.14	4,360.00	35,486.61
	f. Water truck/Pump (16000 L)	1	8.14	19,600.00	159,526.96
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	8.14	261.04	2,124.64
	h. Bar Cutter, Single Phase	1	0.81	1,758.00	1,430.86
	Minor Tools 5% of Labor				2,641.80
Sub-total for B					P 783,777.26
C.	Total (A+B)				836,613.24
D.	Output/day	460.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	1,872.00	kg.	38.00	71,136.00
	b. Curing Compound	1,085.76	L	35.00	38,001.60
	c. Asphalt Sealant	636.48	L	100.00	63,648.00
	d. Steel Forms (Rental)	1,722.24	m	52.00	89,556.48
	e. Sand	576.58	cu.m.	1,082.05	623,884.06
	f. Gravel	1,048.32	cu.m.	1,082.05	1,134,334.66
	g. Cement	9,959.04	bag	269.00	2,678,981.76
	h. Concrete Saw (Diamond Blade 14" Ø)	0.56	pc.	8,000.00	4,492.80
	i. Pipe Sleeve, 2" Ø	29.20	m.	101.67	2,968.99
	j. Grease/Tar	29.20	L	112.50	3,285.36
Sub-total for E					P 4,710,289.71
F.	Direct Cost (C + E)				5,546,902.95
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		443,752.24
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		443,752.24
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		321,720.37
J.	Total Unit Cost				1,804.52

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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: 1,711.00

0.15 m. thk., includes widening

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.99	611.92	1,219.36
	b. Skilled Labor	4	1.99	443.20	3,532.63
	c. Unskilled Labor	12	1.99	342.24	8,183.72
Sub-total for A					P 12,935.72
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	1.99	10,544.00	84,043.53
	b. Concrete Vibrator	2	1.99	730.00	2,909.32
	c. Concrete Batch Plant (30 cu.m.)	1	1.99	14,076.00	28,049.05
	d. Payloader (1.50 cu.m.), LX80-2C	1	1.99	13,864.00	27,626.60
	e. Concrete Screeder (5.5 hp)	1	1.99	4,360.00	8,688.11
	f. Water truck/Pump (16000 L)	1	1.99	19,600.00	39,056.65
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	1.99	261.04	520.17
	h. Bar Cutter, Single Phase	1	0.20	1,758.00	350.31
	Minor Tools 5% of Labor				646.79
Sub-total for B					P 191,890.53
C.	Total (A+B)				204,826.25
D.	Output/day	858.64	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	564.63	kg.	38.00	21,455.94
	b. Curing Compound	496.19	L	35.00	17,366.65
	c. Asphalt Sealant	205.32	L	100.00	20,532.00
	d. Steel Forms (Rental)	787.06	m	52.00	40,927.12
	e. Sand	141.16	cu.m.	1,082.05	152,739.47
	f. Gravel	256.65	cu.m.	1,082.05	277,708.13
	g. Cement	2,446.73	bag	269.00	658,170.37
	h. Concrete Saw (Diamond Blade 14" Ø)	0.26	pc.	8,000.00	2,053.20
	i. Pipe Sleeve, 2" Ø	13.35	m.	101.67	1,356.82
	j. Grease/Tar	2.57	L	112.50	288.73
Sub-total for E					P 1,192,598.44
F.	Direct Cost (C + E)				1,397,424.69
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		111,793.98
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		111,793.98
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		81,050.63
J.	Total Unit Cost				994.78

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 103(2)a Bridge Excavation Above Ordinary Water Level
 Unit of Measurement: cu.m.
 Output per hour: 20.00
 Quantity: 325.00

Excavation of Footing at Abutments A & B

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.03	611.92	1,242.96
	b. Skilled Labor	1	2.03	443.20	900.25
	c. Unskilled Labor	2	2.03	342.24	1,390.35
Sub-total for A					P 3,533.56
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	2.03	12,296.00	24,976.25
	b. Dump Truck (12 cu.yd.)	2	2.03	11,360.00	46,150.00
	Minor Tools 10% of Labor				353.36
Sub-total for B					P 71,479.61
C.	Total (A+B)				75,013.17
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)				75,013.17
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		6,001.05
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		6,001.05
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		4,350.76
J.	Total Unit Cost				281.13

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 103(2)b Bridge Excavation Below Ordinary Water Level
 Unit of Measurement: cu.m.
 Output per hour: 4.00
 Quantity: 973.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	30.41	611.92	18,606.19
	b. Skilled Labor	1	30.41	443.20	13,476.05
	c. Unskilled Labor	2	30.41	342.24	20,812.47
Sub-total for A					P 52,894.71
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	15.20	12,296.00	186,937.63
	b. Backhoe with Breaker	1	30.41	15,984.80	486,037.83
	c. Dump Truck (12 cu.yd.)	1	15.20	11,360.00	172,707.50
	Minor Tools 10% of Labor				5,289.47
Sub-total for B					P 850,972.42
C.	Total (A+B)				903,867.13
D.	Output/day	32.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				903,867.13
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		72,309.37
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		72,309.37
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		52,424.29
J.	Total Unit Cost				1,131.46

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 400(4)a1 Precast Concrete Piles, Furnished

Unit of Measurement: In.m.

Output per hour: 17.50

Quantity: 2,424.00

400 x 400 Concrete Pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	17.31	611.92	10,594.96
	b. Leadman	4	17.31	561.36	38,878.19
	c. Skilled Labor	8	17.31	443.20	61,389.53
	d. Unskilled Labor	16	17.31	342.24	94,810.26
	Formworks				
	a. Leadman	4	51.94	561.36	116,634.57
	b. Skilled Labor	8	51.94	443.20	184,168.59
	c. Unskilled Labor	16	51.94	342.24	284,430.77
	use double gang of labor and equipment				
Sub-total for A				P	790,906.88
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Concrete Vibrator	2	3.46	730.00	5,055.77
	b. Plate Compactor	2	3.46	984.00	6,814.90
	c. Bar Bender	2	6.93	2,812.00	38,950.22
	d. Bar Cutter	2	6.93	1,758.00	24,350.81
	Minor Tools 10% of Labor				79,090.69
Sub-total for B				P	154,262.39
C.	Total (A+B)				945,169.27
D.	Output/day	140.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ready Mix Concrete	404.81	cu.m.	4,530.00	1,833,780.24
	b. Reinforcing Steel Bar	116,352.00	kg.	38.00	4,421,376.00
	c. #16 G.I. Tie Wire (2% of RSB)	2,327.04	kg.	78.00	181,509.12
	d. Forms	37,167.19	bd.ft.	37.00	1,375,186.10
	e. Plywood Marine	649.63	pc.	880.00	571,676.16
	f. Assorted CWN (1 kg./100 bd.ft. of Lumber)	407.23	kg.	50.00	20,361.60
	Casting Bed				
	a. Ready Mix Concrete	72.72	cu.m.	4,200.00	305,424.00
	b. Coco Lumber	3,636.00	bd.ft.	15.00	54,540.00
	c. Base Course (Crushed, Grading A)	72.72	cu.m.	861.05	62,615.56
Sub-total for E				P	8,826,468.78
F.	Direct Cost (C + E)				9,771,638.05
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		781,731.04
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		781,731.04
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		566,755.01
J.	Total Unit Cost				4,910.01

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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

Unit of Measurement: In.m.

Output per hour: 48.00

Quantity: 2,742.00

for Cofferdam & Scour Protection

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.14	611.92	4,369.49
	b. Skilled Labor	2	7.14	443.20	6,329.45
	c. Unskilled Labor	2	7.14	342.24	4,887.62
Sub-total for A					P 15,586.56
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	7.14	20,848.00	148,867.75
Sub-total for B					P 148,867.75
C.	Total (A+B)				164,454.31
D.	Output/day	384.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Steel Sheet Piles KSP II (delivered at site)	131,616.00	kg.	50.00	6,580,800.00
Sub-total for E					P 6,580,800.00
F.	Direct Cost (C + E)				6,745,254.31
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		539,620.34
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		539,620.34
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		391,224.75
J.	Total Unit Cost				2,996.25

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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

Unit of Measurement: In.m.

Output per hour: 10.00

Quantity: 2,364.00

for Cofferdam & Scour Protection (driven)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	29.55	611.92	18,082.24
	b. Skilled Labor	6	29.55	443.20	78,579.36
	c. Unskilled Labor	6	29.55	342.24	60,679.15
Sub-total for A					P 157,340.75
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	29.55	20,848.00	616,058.40
	b. Vibro Hammer	1	29.55	16,984.00	501,877.20
	c. Gen. Set (876-1000 KVA)	1	29.55	10,373.36	306,532.79
	d. Welding Machine	1	29.55	2,968.00	87,704.40
	e. Cutting Outfit	1	14.78	363.60	5,372.19
Sub-total for B					P 1,517,544.98
C.	Total (A+B)				1,674,885.73
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)	56.74	kg.	150.00	8,510.40
	b. Oxy/Acetylene (1 set/5000 kg. of Steel Sheet Pile)	22.69	set	2,500.00	56,736.00
Sub-total for E					P 65,246.40
F.	Direct Cost (C + E)				1,740,132.13
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		139,210.57
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		139,210.57
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		100,927.66
J.	Total Unit Cost				896.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 400(14) Precast Concrete Piles, Driven

Unit of Measurement: In.m.

Output per hour: 7.20

Quantity: 2,296.00

19.00 m./pile (San Roque); 15.00 m./pile (Malagutay)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	39.86	611.92	24,391.81
	b. Leadman	3	39.86	561.36	67,129.30
	c. Skilled Labor	15	39.86	443.20	264,996.67
	d. Unskilled Labor	15	39.86	342.24	204,631.00
	use triple gang of labor and equipment				
Sub-total for A					P 561,148.78
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	3	21.13	20,848.00	1,321,328.87
	b. Diesel Hammer (K25 or equivalent)	3	10.76	9,992.00	322,616.70
	c. Drop Hammer	3	5.18	1,600.00	24,873.33
	d. Cutting Outfit	3	7.97	363.60	8,696.10
	e. Jack Hammer	6	7.97	1,200.00	57,400.00
	f. Air Compressor (103 Hp)	3	7.97	7,720.00	184,636.67
	Minor Tools 10% of Labor				
Sub-total for B					P 1,919,551.67
C.	Total (A+B)				2,480,700.44
D.	Output/day	57.60	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Log	2,296.00	m.	350.00	803,600.00
	b. Coco Lumber (Falsework)	36,736.00	bd.ft.	15.00	551,040.00
	c. Nail/Spike (1 kg./100 bd.ft. of Lumber)	367.36	kg.	68.00	24,980.48
	d. Oxygen/Acetylene	22.96	set	2,500.00	57,400.00
Sub-total for E					P 1,437,020.48
F.	Direct Cost (C + E)				3,917,720.92
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		313,417.67
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		313,417.67
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		227,227.81
J.	Total Unit Cost				2,078.30

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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

Unit of Measurement: In.m.

Output per hour: 6.00

Quantity: 112.00

20.00 m./pile (San Roque); 16.00 m./pile (Malagutay)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.33	611.92	1,427.81
	b. Skilled Labor	6	2.33	443.20	6,204.80
	c. Unskilled Labor	6	2.33	342.24	4,791.36
Sub-total for A					P 12,423.97
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	1.24	20,848.00	25,782.03
	b. Diesel Hammer (K25 or equivalent)	1	0.63	9,992.00	6,294.96
	c. Drop Hammer	1	0.30	1,600.00	485.33
	d. Cutting Outfit	1	0.47	363.60	169.68
	e. Jack Hammer	2	0.47	1,200.00	1,120.00
	f. Air Compressor (103 Hp)	1	0.47	7,720.00	3,602.67
	Minor Tools 10% of Labor				
Sub-total for B					P 37,454.67
C.	Total (A+B)				49,878.64
D.	Output/day	48.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Log	190.40	m.	350.00	66,640.00
	b. Coco Lumber (Falsework)	1,792.00	bd.ft.	15.00	26,880.00
	c. Nail/Spike (1 kg./100 bd.ft. of Lumber)	17.92	kg.	68.00	1,218.56
	d. Oxygen/Acetylene	5.60	set	2,500.00	14,000.00
	e. Fabricated R.C. Pile	112.00	m.	3,200.00	358,400.00
Sub-total for E					P 467,138.56
F.	Direct Cost (C + E)				517,017.20
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		41,361.38
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		41,361.38
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		29,987.00
J.	Total Unit Cost				5,622.56

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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

Unit of Measurement: In.m.

Output per hour: 8.00

Quantity: 12.00 6.00 m./pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.19	611.92	114.74
	b. Skilled Labor	6	0.19	443.20	498.60
	c. Unskilled Labor	6	0.19	342.24	385.02
Sub-total for A					P 998.36
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	0.19	20,848.00	3,909.00
	b. Vibro Hammer	1	0.19	16,984.00	3,184.50
	c. Gen. Set (876-1000 KVA)	1	0.19	10,373.36	1,945.01
	d. Welding Machine	1	0.19	2,968.00	556.50
	e. Cutting Outfit	1	0.09	363.60	34.09
Sub-total for B					P 9,629.09
C.	Total (A+B)				10,627.45
D.	Output/day	64.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Steel Sheet Piles KSP II (delivered at site)	576.00	kg.	50.00	28,800.00
	b. Welding Rod (1 kg./2000 kg. of Steel Sheet Pile)	0.29	kg.	150.00	43.20
	c. Oxy/Acetylene (1 set/5000 kg. of Steel Sheet Pile)	0.12	set	2,500.00	288.00
Sub-total for E					P 29,131.20
F.	Direct Cost (C + E)				39,758.65
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		3,180.69
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		3,180.69
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		2,306.00
J.	Total Unit Cost				4,035.50

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 401(2)a Concrete Railing
 Unit of Measurement: In.m.
 Output per hour: 0.63
 Quantity: 150.00

Standard Concrete Bridge railing

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	30.00	611.92	18,357.60
	b. Skilled Labor	2	30.00	443.20	26,592.00
	c. Unskilled Labor	4	30.00	342.24	41,068.80
Sub-total for A					P 86,018.40
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Concrete Vibrator	1	7.50	730.00	5,475.00
	b. Bar Cutter	1	3.75	1,758.00	6,592.50
	c. Bar Bender	1	3.75	2,812.00	10,545.00
	d. Cutting Outfit	1	0.75	363.60	272.70
	Minor Tools 10% of Labor				8,601.84
Sub-total for B					P 31,487.04
C.	Total (A+B)				117,505.44
D.	Output/day	5.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ready Mix Concrete	25.95	cu.m.	4,530.00	117,553.50
	b. Reinforcing Steel Bar	3,720.00	kg.	38.00	141,360.00
	c. Plywood 1/2" x 4' x 8'	90.00	pc.	750.00	67,500.00
	d. Lumber	3,900.00	bd.ft.	37.00	144,300.00
	e. Assorted CWN (1 kg./100 bd.ft. of Lumber)	39.00	kg.	50.00	1,950.00
	f. Tie Wire (2% of RSB)	74.40	kg.	78.00	5,803.20
	g. Oxy/Acetylene (1 set/5000 kg. of steel)	0.75	set	2,500.00	1,875.00
Sub-total for E					P 480,341.70
F.	Direct Cost (C + E)				597,847.14
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		47,827.77
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		47,827.77
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		34,675.13
J.	Total Unit Cost				4,854.52

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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

Unit of Measurement: In.m.

Output per hour:

Quantity: 24.00

7.00 meters/span

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	45.00	611.92	27,536.40
	b. Skilled Labor	6	45.00	443.20	119,664.00
	c. Unskilled Labor	6	45.00	342.24	92,404.80
Sub-total for A					P 239,605.20
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane	1	45.00	20,848.00	938,160.00
	b. Drop Hammer	1	20.00	1,600.00	32,000.00
	c. Cargo Truck	1	20.00	9,696.00	193,920.00
	Minor Tools 10% of Labor				23,960.52
Sub-total for B					P 1,188,040.52
C.	Total (A+B)				1,427,645.72
D.	Output/day	-	span/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Trunks	320.00	pc.	950.00	304,000.00
	b. Coco Lumber - Floor Planks and Running Board	22,000.00	bd.ft.	15.00	330,000.00
	c. 25 mm. dia. x 400 mm. Machine Bolt w/ standard nuts and washer	90.00	kg.	150.00	13,500.00
	d. 25 mm. dia. Steel Bar	1,000.00	kg.	44.00	44,000.00
Sub-total for E					P 691,500.00
F.	Direct Cost (C + E)				2,119,145.72
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		169,531.66
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		169,531.66
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		122,910.45
J.	Total Unit Cost				107,546.65

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 403(1) Structural Steel, Furnished, Fabricated and Erected
 Unit of Measurement: kg.
 Output per hour: 245.25
 Quantity: 2,496.00

Expansion Dam at abutments

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.27	611.92	778.47
	b. Leadman	1	1.27	561.36	714.15
	c. Skilled Labor	4	1.27	443.20	2,255.31
	d. Unskilled Labor	8	1.27	342.24	3,483.10
Sub-total for A					P 7,231.02
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane	1	1.27	20,848.00	26,522.23
	b. Drop Hammer	1	1.02	1,600.00	1,628.38
	c. Welding Machine	1	0.89	2,968.00	2,643.06
	d. Generator Set (1401 - 1500 KW)	1	0.89	21,902.16	19,504.31
	e. Cutting Outfit	2	0.89	363.60	647.59
	Minor Tools 10% of Labor				723.10
Sub-total for B					P 51,668.67
C.	Total (A+B)				58,899.69
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)	2,496.00	kg.	162.93	406,673.28
	Structural Steel Support				
	b. 1 - I Beam x 10.0 m.	162.24	kg.	50.00	8,112.00
	c. 2 - Tubular Pipe 0.35 mm Ø x 10.0 m.	2.05	m.	950.75	1,945.92
	d. 4 - RSB 30 mm. Ø x 12.0 m.	39.94	kg.	38.00	1,517.57
	e. Welding Rod (1 kg./2000 kg. of Steel)	1.25	kg.	150.00	187.20
	f. Oxy/Acetylene (1 kg./5000 kg. of Steel)	0.50	set	2,500.00	1,248.00
Sub-total for E					P 419,683.97
F.	Direct Cost (C + E)				478,583.65
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 22 s 2015		38,286.69
H.	Contractor's Profit (CP)		8% per D.O. 22 s 2015		38,286.69
I.	Value Added Tax (VAT)		5% per D.O. 22 s 2015		27,757.85
J.	Total Unit Cost				233.54

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 404(1)a Reinforcing Steel, Grade 40
 Unit of Measurement: kg.
 Output per hour: 180.00
 Quantity: 10,558.58

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.33	611.92	4,486.81
	b. Skilled Labor	2	7.33	443.20	6,499.39
	c. Unskilled Labor	8	7.33	342.24	20,075.38
Sub-total for A					P 31,061.58
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	1.10	11,072.00	12,177.56
	b. Cargo Truck (10 T, 270 Hp)	1	1.10	9,696.00	10,664.17
	c. Bar Cutter	1	3.67	1,758.00	6,445.13
	d. Bar Bender	1	3.67	2,812.00	10,309.28
Sub-total for B					P 39,596.14
C.	Total (A+B)				70,657.72
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	221.73	kg.	78.00	17,294.95
	b. Reinforcing Steel Bar, Grade 40 (with 5% wastage)	11,086.51	kg.	38.00	421,287.34
Sub-total for E					P 438,582.30
F.	Direct Cost (C + E)				509,240.02
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		40,739.20
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		40,739.20
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		29,535.92
J.	Total Unit Cost				58.74

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 404(1)b Reinforcing Steel, Grade 60
 Unit of Measurement: kg.
 Output per hour: 640.00
 Quantity: 168,314.43

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	32.87	611.92	20,116.20
	b. Leadman	3	32.87	561.36	55,362.30
	c. Skilled Labor	8	32.87	443.20	116,557.74
	d. Unskilled Labor	32	32.87	342.24	360,024.57
	use quadruple gang of labor and equipment				
Sub-total for A					P 552,060.81
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Service Crane (25 T, 145 Hp)	4	4.93	11,072.00	218,387.97
	b. Cargo Truck (10 T, 270 Hp)	4	4.93	9,696.00	191,247.27
	c. Bar Cutter	4	16.44	1,758.00	115,584.67
	d. Bar Bender	4	16.44	2,812.00	184,882.88
Sub-total for B					P 710,102.80
C.	Total (A+B)				1,262,163.61
D.	Output/day	5,120.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	3,534.60	kg.	78.00	275,699.04
	b. Reinforcing Steel Bar, Grade 60 (with 5% wastage)	176,730.15	kg.	40.00	7,069,206.06
Sub-total for E					P 7,344,905.10
F.	Direct Cost (C + E)				8,607,068.71
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		688,565.50
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		688,565.50
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		499,209.99
J.	Total Unit Cost				62.28

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 405(1)b2 Structural Concrete, Class "A"
 Unit of Measurement: cu.m.
 Output per hour: 40.00
 Quantity: 1,034.98

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.23	611.92	1,979.14
	b. Leadman	4	3.23	561.36	7,262.45
	c. Skilled Labor	16	3.23	443.20	22,935.16
	d. Unskilled Labor	32	3.23	342.24	35,421.16
	Installation & Removal of Formworks/Falsework				
	a. Const. Foreman	1	64.69	611.92	39,582.81
	b. Leadman	4	64.69	561.36	145,249.09
	c. Skilled Labor	16	64.69	443.20	458,703.14
	d. Unskilled Labor	32	64.69	342.24	708,423.11
	use quadruple gang of labor and equipment				
Sub-total for A				P	1,419,556.06
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	8	3.23	10,544.00	272,820.73
	b. Concrete Vibrator	8	3.23	730.00	18,888.39
	c. Batching Plant (30 cu.m.)	4	1.62	14,076.00	91,052.37
	d. Payloader (1.50 cu.m.), LX80-2C	4	1.62	13,864.00	89,681.02
	e. Water Truck (1000 gal.)	4	0.81	19,600.00	63,392.53
	f. Crane w/ Bucket	4	1.62	20,848.00	134,857.89
Sub-total for B				P	670,692.91
C.	Total (A+B)				2,090,248.97
D.	Output/day	320.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good - 4 uses	103,498.00	bd.ft.	37.00	957,356.50
	b. Plywood (1/2" x 4' x 8') - 4 uses	1,552.47	pc.	750.00	291,088.13
	c. Assorted CWN (1 kg./100 bd.ft. of Lumber)	1,034.98	kg.	50.00	51,749.00
	d. Cement	10,867.29	bag	269.00	2,923,301.01
	e. Sand	517.49	cu.m.	1,082.05	559,950.05
	f. Gravel	1,034.98	cu.m.	1,082.05	1,119,900.11
	g. Curing Compound	1,034.98	lit.	35.00	36,224.30
Sub-total for E				P	5,939,569.10
F.	Direct Cost (C + E)				8,029,818.07
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		642,385.45
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		642,385.45
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		465,729.45
J.	Total Unit Cost				9,449.77

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 406(1)a4 Prestressed Concrete AASHTO Girder (Type IV-B), L = 30 m
 Unit of Measurement: each
 Output per hour: 1.00
 Quantity: 4.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	36.00	611.92	22,029.12
	b. Skilled Labor	8	36.00	443.20	127,641.60
	c. Unskilled Labor	6	36.00	342.24	73,923.84
Sub-total for A					P 223,594.56
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	15.00	20,848.00	312,720.00
	b. Stressing (Jack) Machine	1	0.50	80,000.00	40,000.00
	c. Bar Cutter	1	4.50	1,758.00	7,911.00
	d. Bar Bender	1	4.50	2,812.00	12,654.00
	e. Cutting Outfit	1	0.28	363.60	99.99
	f. Concrete Vibrator	3	5.00	730.00	10,950.00
	g. Plate Compactor	1	1.00	984.00	984.00
Sub-total for B					P 385,318.99
C.	Total (A+B)				608,913.55
D.	Output/day	8.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Prestressed Concrete AASHTO Girder Type IVB	120.00	In.m.	24,000.00	2,880,000.00
Sub-total for E					P 2,880,000.00
F.	Direct Cost (C + E)				3,488,913.55
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		279,113.08
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		279,113.08
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		202,356.99
J.	Total Unit Cost				1,062,374.18

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 407(8) Lean Concrete
 Unit of Measurement: cu.m.
 Output per hour: 1.40
 Quantity: 26.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.32	611.92	1,420.53
	b. Skilled Labor	1	2.32	443.20	1,028.86
	c. Unskilled Labor	2	2.32	342.24	1,588.97
Sub-total for A				P	4,038.36
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	2.32	1,376.00	3,194.29
	b. Concrete Vibrator	1	2.32	730.00	1,694.64
	c. Water Truck	1	0.23	19,600.00	4,550.00
Sub-total for B				P	9,438.93
C.	Total (A+B)				13,477.29
D.	Output/day	11.20	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	247.00	bag	269.00	66,443.00
	b. Sand	13.00	cu.m.	1,082.05	14,066.65
	c. Gravel	26.00	cu.m.	1,082.05	28,133.30
Sub-total for E				P	108,642.95
F.	Direct Cost (C + E)				122,120.24
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		9,769.62
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		9,769.62
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		7,082.97
J.	Total Unit Cost				5,720.86

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 412(1) Elastomeric Bearing Pad
 Unit of Measurement: each
 Output per hour: 1.00
 Quantity: 16.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.32	611.92	195.81
	b. Unskilled Labor	2	0.32	342.24	219.03
Sub-total for A				P	414.85
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Wood/Steel Ladder	1	2.00	800.00	1,600.00
Sub-total for B				P	1,600.00
C.	Total (A+B)				2,014.85
D.	Output/day	8.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Elastomeric Bearing Pad	16.00	each	16,150.00	258,400.00
	Miscellaneous 10% of Labor				41.48
Sub-total for E				P	258,441.48
F.	Direct Cost (C + E)				260,456.33
G.	Overhead, Contingencies and Miscellaneous			8% per D.O. 197, s. 2016	20,836.51
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	20,836.51
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	15,106.47
J.	Total Unit Cost				19,827.24

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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

Unit of Measurement: L.S.

Output per hour:

Quantity: 3.00

For Bridges (San Roque & Malagutay) and Fencing

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	30.00	611.92	18,357.60
	b. Skilled Labor	6	30.00	443.20	79,776.00
	c. Unskilled Labor	6	30.00	342.24	61,603.20
Sub-total for A					P 159,736.80
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cutting Outfit	1	15.00	363.60	5,454.00
	Minor Tools 10% of Labor				15,973.68
Sub-total for B					P 21,427.68
C.	Total (A+B)				181,164.48
D.	Output/day	-			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. 63 mm. dia. G.I. Pipes	800.00	pc.	1,885.00	1,508,000.00
	b. 63 mm. dia. C-Clamps	2,200.00	pc.	54.00	118,800.00
	c. #16 G.I. Tie Wire	25.00	kg.	78.00	1,950.00
	d. Oxy/Acetylene	7.00	set	2,500.00	17,500.00
	e. Plywood 1/4" x 4' x 8'	170.00	pc.	385.00	65,450.00
	f. Coco Lumber	15,000.00	bd.ft.	15.00	225,000.00
	g. Assorted CWN Nails	15.00	kg.	50.00	750.00
Sub-total for E					P 1,937,450.00
F.	Direct Cost (C + E)				2,118,614.48
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		169,489.16
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		169,489.16
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		122,879.64
J.	Total Unit Cost				860,157.48

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 505(2)a Grouted Riprap, Class A

Unit of Measurement: cu.m.

Output per hour: 5.00

Quantity: 1,058.00

For Bridge Approaches

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	26.45	611.92	16,185.28
	b. Leadman	4	26.45	561.36	59,391.89
	c. Skilled Labor	8	26.45	443.20	93,781.12
	d. Unskilled Labor	32	26.45	342.24	289,671.94
	use quadruple gang of labor and equipment				
Sub-total for A					P 459,030.23
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	4	26.45	1,376.00	145,580.80
	b. Water Truck/Pump (16000 L)	4	1.32	19,600.00	103,684.00
	Minor Tools 5% of Labor				22,951.51
Sub-total for B					P 272,216.31
C.	Total (A+B)				731,246.54
D.	Output/day	40.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	3,174.00	bag	269.00	853,806.00
	b. Sand	264.50	cu.m.	1,082.05	286,202.23
	c. Gravel	15.87	cu.m.	1,082.05	17,172.13
	d. Weep Holes (PVC)	317.40	m.	101.67	32,269.00
	e. Filter Cloth	15.87	sq.m.	160.00	2,539.20
	f. Boulders (15 - 25 kg.)	1,110.90	cu.m.	1,281.05	1,423,118.45
	Miscellaneous 1% of Materials Cost				26,151.07
Sub-total for E					P 2,641,258.07
F.	Direct Cost (C + E)				3,372,504.61
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		269,800.37
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		269,800.37
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		195,605.27
J.	Total Unit Cost				3,882.52

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 507(1) Rubble Concrete
 Unit of Measurement: cu.m.
 Output per hour: 1.40
 Quantity: 69.00

For Scour Protection

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	6.16	611.92	3,769.86
	b. Skilled Labor	2	6.16	443.20	5,460.86
	b. Unskilled Labor	8	6.16	342.24	16,867.54
Sub-total for A					P 26,098.26
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	6.16	1,376.00	8,477.14
	b. Water Truck/Pump (16000 L)	1	0.31	19,600.00	6,037.50
	c. Backhoe (Wheel Type 0.28 cu.m.)	1	0.62	19,600.00	12,075.00
	Minor Tools 10% of Labor				2,609.83
Sub-total for B					P 29,199.47
C.	Total (A+B)				55,297.73
D.	Output/day	11.20	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	289.80	bag	270.00	19,561.50
	b. Sand	18.11	cu.m.	1,202.75	5,446.20
	c. Gravel Fill	1.38	cu.m.	1,202.75	1,659.80
	d. Weep Holes (PVC)	20.70	m.	101.67	2,104.50
	e. Filter Cloth	1.04	sq.m.	160.00	165.60
	f. Boulders	43.47	cu.m.	1,401.75	60,934.07
	g. Gravel	36.23	cu.m.	1,202.75	43,569.62
Sub-total for E					P 133,441.29
F.	Direct Cost (C + E)				188,739.02
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		15,099.12
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		15,099.12
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		10,946.86
J.	Total Unit Cost				3,331.65

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 508(1) Handlaid Rock Embankment
 Unit of Measurement: cu.m.
 Output per hour: 6.25
 Quantity: 732.92

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	14.66	611.92	8,969.77
	b. Leadman	2	14.66	561.36	16,457.28
	c. Skilled Labor	4	14.66	443.20	25,986.41
	d. Unskilled Labor	16	14.66	342.24	80,267.05
	use double gang of labor and equipment				
Sub-total for A				P	131,680.51
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	Minor Tools 10% of Labor Cost				13,168.05
Sub-total for B				P	13,168.05
C.	Total (A+B)				144,848.56
D.	Output/day	50.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Boulders	769.57	cu.m.	1,281.05	985,852.52
Sub-total for E				P	985,852.52
F.	Direct Cost (C + E)				1,130,701.09
G.	Overhead, Contingencies and Miscellaneous			8% per D.O. 197, s. 2016	90,456.09
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	90,456.09
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	65,580.66
J.	Total Unit Cost				1,879.05

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 404(1a) Reinforcing Steel Bar, Grade 40
 Unit of Measurement: kg.
 Output per hour: 180.00
 Quantity: 3,554.64

Reinforcement for Line Canal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.47	611.92	1,510.52
	b. Skilled Labor	2	2.47	443.20	2,188.08
	c. Unskilled Labor	8	2.47	342.24	6,758.56
Sub-total for A					P 10,457.16
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	1.23	1,758.00	2,169.81
	b. Bar Bender	1	1.23	2,812.00	3,470.71
	c. Cargo Truck (9-10 mt)	1	0.37	9,696.00	3,590.19
Sub-total for B					P 9,230.71
C.	Total (A+B)				19,687.87
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	74.65	kg.	78.00	5,822.50
	b. Reinforcing Steel Bar, Grade 40 (w/ 5% Wastage)	3,732.37	kg.	38.00	141,830.14
Sub-total for E					P 147,652.64
F.	Direct Cost (C + E)				167,340.50
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		13,387.24
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		13,387.24
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		9,705.75
J.	Total Unit Cost				57.34

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 405(1)a2 Structural Concrete, Class "A"
 Unit of Measurement: cu.m.
 Output per hour: 1.40
 Quantity: 82.80

Concrete for Line Canal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.39	611.92	4,523.84
	b. Skilled Labor	4	7.39	443.20	13,106.06
	b. Unskilled Labor	8	7.39	342.24	20,241.05
	Installation/Removal of Formworks				
	a. Skilled Labor	4	7.39	443.20	13,106.06
	b. Unskilled Labor	8	7.39	342.24	20,241.05
Sub-total for A				P	71,218.05
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	7.39	1,376.00	10,172.57
	b. Concrete Vibrator	1	7.39	730.00	5,396.79
	c. Water Truck/Pump (16000 L)	1	0.74	19,600.00	14,490.00
	Minor Tools 10% of Labor				7,121.81
Sub-total for B				P	37,181.16
C.	Total (A+B)				108,399.22
D.	Output/day	11.20	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good - 4 uses	5,796.00	bd.ft.	37.00	53,613.00
	b. Marine Plywood (1/2" x 4' x 8') - 4 uses	132.48	pc.	880.00	29,145.60
	c. Assorted CWN (1 kg./100 bd.ft. of Lumber)	57.96	kg.	50.00	2,898.00
	d. Cement	786.60	bag	269.00	211,595.40
	e. Sand	41.40	cu.m.	1,082.05	44,796.87
	f. Gravel	82.80	cu.m.	1,082.05	89,593.74
Sub-total for E				P	431,642.61
F.	Direct Cost (C + E)				540,041.83
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		43,203.35
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		43,203.35
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		31,322.43
J.	Total Unit Cost				7,944.09

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 612(1) Reflectorized Thermoplastic Pavement Markings (White)
 Unit of Measurement: sq.m.
 Output per hour: 25.00
 Quantity: 91.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.46	611.92	278.42
	b. Skilled Labor	2	0.46	443.20	403.31
	c. Unskilled Labor	6	0.46	342.24	934.32
Sub-total for A					P 1,616.05
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	0.46	6,264.00	2,850.12
	b. Applicator Machine	1	0.46	750.00	341.25
	c. Kneading Machine	1	0.46	1,500.00	682.50
	Minor Tools 10% of Labor				161.61
Sub-total for B					P 4,035.48
C.	Total (A+B)				5,651.53
D.	Output/day	200.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Thermoplastic Paint (White)	29.58	bag	1,585.00	46,876.38
	b. Glass Beads	3.00	bag	2,500.00	7,507.50
	c. Primer	10.92	L	160.00	1,747.20
	d. LPG (50 kg)	0.36	cyl.	3,450.00	1,255.80
	e. LPG (12 kg)	0.18	cyl.	828.00	150.70
	f. Calsumine	11.38	kg.	30.00	341.25
	Miscellaneous 5% of Materials Cost				2,893.94
Sub-total for E					P 60,772.76
F.	Direct Cost (C + E)				66,424.29
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		5,313.94
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		5,313.94
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		3,852.61
J.	Total Unit Cost				889.06

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 612(2) Reflectorized Thermoplastic Pavement Markings (Yellow)
 Unit of Measurement: sq.m.
 Output per hour: 25.00
 Quantity: 69.00

For Barrier Lines

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.35	611.92	211.11
	b. Skilled Labor	2	0.35	443.20	305.81
	c. Unskilled Labor	6	0.35	342.24	708.44
Sub-total for A					P 1,225.36
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	0.35	6,264.00	2,161.08
	b. Applicator Machine	1	0.35	750.00	258.75
	c. Kneading Machine	1	0.35	1,500.00	517.50
	Minor Tools 10% of Labor				122.54
Sub-total for B					P 3,059.87
C.	Total (A+B)				4,285.22
D.	Output/day	200.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Thermoplastic Paint (Yellow)	22.43	bag	1,800.00	40,365.00
	b. Glass Beads	2.28	bag	2,500.00	5,692.50
	c. Primer	8.28	L	175.00	1,449.00
	d. LPG (50 kg)	0.28	cyl.	3,450.00	952.20
	e. LPG (12 kg)	0.14	cyl.	828.00	114.26
	f. Calsumine	8.63	kg.	30.00	258.75
	Miscellaneous 5% of Materials Cost				2,441.59
Sub-total for E					P 51,273.30
F.	Direct Cost (C + E)				55,558.52
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		4,444.68
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		4,444.68
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		3,222.39
J.	Total Unit Cost				980.73

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 622(1a) Coconet Bio-Engineering Solutions, Coco-net (CN400)
 Unit of Measurement: sq.m.
 Output per hour: 50.00
 Quantity: 9,246.00

CN 400

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	23.12	611.92	14,144.53
	b. Unskilled Labor	8	23.12	342.24	63,287.02
Sub-total for A					P 77,431.55
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Water Truck/Pump (16000L)	1	5.78	19,600.00	113,263.50
	Minor Tools 10% of Labor				7,743.16
Sub-total for B					P 121,006.66
C.	Total (A+B)				198,438.21
D.	Output/day	400.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Erosion Control Net CGN 400 with 5% wastage factor	9,708.30	sq.m.	110.00	1,067,913.00
Sub-total for E					P 1,067,913.00
F.	Direct Cost (C + E)				1,266,351.21
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		101,308.10
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		101,308.10
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		73,448.37
J.	Total Unit Cost				166.82

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 622(2) Coconet Bio-Engineering Solutions, Coco-logs/Fascine (CN200)
 Unit of Measurement: In.m.
 Output per hour: 15.00
 Quantity: 490.00

CN 200

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	4.08	611.92	2,498.67
	b. Unskilled Labor	8	4.08	342.24	11,179.84
Sub-total for A					P 13,678.51
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	Minor Tools 10% of Labor				1,367.85
Sub-total for B					P 1,367.85
C.	Total (A+B)				15,046.36
D.	Output/day	120.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Fiber Roll (CGR 200)	514.50	sq.m.	410.00	210,945.00
Sub-total for E					P 210,945.00
F.	Direct Cost (C + E)				225,991.36
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		18,079.31
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		18,079.31
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		13,107.50
J.	Total Unit Cost				561.75

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Concreting of Road from Junction Highway to Ayala - La Paz Road Leading to La Paz Resort (Package II), Zamboanga City, (1st LD)

Item No./Description: 622(3) Coconet Bio-Engineering Solutions, Vegetation

Unit of Measurement: sq.m.

Output per hour: 35.00

Quantity: 9,246.00

Grass Cover

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	33.02	611.92	20,206.47
	b. Unskilled Labor	2	33.02	342.24	22,602.51
Sub-total for A					P 42,808.98
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Hydroseeding Machine	1	33.02	7,616.00	251,491.20
	b. Water Truck/Pump (16000 L)	1	33.02	19,600.00	647,220.00
	Minor Tools 10% of Labor				4,280.90
Sub-total for B					P 902,992.10
C.	Total (A+B)				945,801.08
D.	Output/day	280.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Grass Cover	9,708.30	sq.m.	170.00	1,650,411.00
Sub-total for E					P 1,650,411.00
F.	Direct Cost (C + E)				2,596,212.08
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		207,696.97
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		207,696.97
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		150,580.30
J.	Total Unit Cost				342.01

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 803(1)a Structure Excavation

Unit of Measurement: cu.m.

Output per hour: 20.00

Quantity: 1,269.00

Perimeter Fence along Ecozone

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.93	611.92	4,853.29
	b. Unskilled Labor	3	7.93	342.24	8,143.17
Sub-total for A					P 12,996.46
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Dump Truck (12 cu.yd.)	2	7.93	11,360.00	180,198.00
	b. Backhoe (0.80 cu.m.)	1	7.93	12,296.00	97,522.65
	Minor Tools 10% of Labor				1,299.65
Sub-total for B					P 279,020.30
C.	Total (A+B)				292,016.76
D.	Output/day	160.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				292,016.76
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		23,361.34
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		23,361.34
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		16,936.97
J.	Total Unit Cost				280.28

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 804(1)a Embankment
 Unit of Measurement: cu.m.
 Output per hour: 50.00
 Quantity: 725.00

Perimeter Fence along Ecozone

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.81	611.92	1,109.11
	b. Unskilled Labor	2	1.81	342.24	1,240.62
Sub-total for A					P 2,349.73
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	1.81	17,384.00	31,508.50
	b. Vibratory Roller (10 mt), SD100C	1	1.81	14,768.00	26,767.00
	c. Water Truck/Pump (16000 L)	1	0.45	19,600.00	8,881.25
Sub-total for B					P 67,156.75
C.	Total (A+B)				69,506.48
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)	906.25	cu.m.	448.70	406,634.38
Sub-total for E					P 406,634.38
F.	Direct Cost (C + E)				476,140.85
G.	Overhead, Contingencies and Miscellaneous			8% per D.O. 197, s. 2016	38,091.27
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	38,091.27
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	27,616.17
J.	Total Unit Cost				799.92

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 404(1a) Reinforcing Steel Bar, Grade 40
 Unit of Measurement: kg.
 Output per hour: 180.00
 Quantity: 20,752.00

Perimeter Fence along Ecozone

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	14.41	611.92	8,818.45
	b. Skilled Labor	2	14.41	443.20	12,774.01
	c. Unskilled Labor	8	14.41	342.24	39,456.47
Sub-total for A					P 61,048.93
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	7.21	1,758.00	12,667.37
	b. Bar Bender	1	7.21	2,812.00	20,262.02
	c. Cargo Truck (9-10 mt)	1	2.16	9,696.00	20,959.52
Sub-total for B					P 53,888.91
C.	Total (A+B)				114,937.83
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	435.79	kg.	78.00	33,991.78
	b. Reinforcing Steel Bar, Grade 40 (w/ 5% Wastage)	21,789.60	kg.	38.00	828,004.80
Sub-total for E					P 861,996.58
F.	Direct Cost (C + E)				976,934.41
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		78,154.75
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		78,154.75
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		56,662.20
J.	Total Unit Cost				57.34

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 405(1)a2 Structural Concrete, Class 'A'

Unit of Measurement: cu.m.

Output per hour: 1.40

Quantity: 370.00

Perimeter Fence along Ecozone

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	33.04	611.92	20,215.21
	b. Skilled Labor	4	33.04	443.20	58,565.71
	b. Unskilled Labor	8	33.04	342.24	90,449.14
	Installation/Removal of Formworks				
	a. Skilled Labor	4	33.04	443.20	58,565.71
	b. Unskilled Labor	8	33.04	342.24	90,449.14
Sub-total for A				P	318,244.93
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	33.04	1,376.00	45,457.14
	b. Concrete Vibrator	1	33.04	730.00	24,116.07
	c. Water Truck/Pump (16000 L)	1	3.30	19,600.00	64,750.00
	Minor Tools 10% of Labor				31,824.49
Sub-total for B				P	166,147.71
C.	Total (A+B)				484,392.64
D.	Output/day	11.20	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good - 4 uses	25,900.00	bd.ft.	37.00	239,575.00
	b. Marine Plywood (1/2" x 4' x 8') - 4 uses	592.00	pc.	880.00	130,240.00
	c. Assorted CWN (1 kg./100 bd.ft. of Lumber)	259.00	kg.	50.00	12,950.00
	d. Cement	3,515.00	bag	269.00	945,535.00
	e. Sand	185.00	cu.m.	1,082.05	200,179.25
	f. Gravel	370.00	cu.m.	1,082.05	400,358.50
Sub-total for E				P	1,928,837.75
F.	Direct Cost (C + E)				2,413,230.39
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		193,058.43
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		193,058.43
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		139,967.36
J.	Total Unit Cost				7,944.09

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 604(1) Fencing Barbed Wire
 Unit of Measurement: In.m.
 Output per hour: 100.00
 Quantity: 9,072.00

Perimeter Fence along Ecozone

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	11.34	611.92	6,939.17
	b. Skilled Labor	1	11.34	443.20	5,025.89
	c. Unskilled Labor	2	11.34	342.24	7,762.00
Sub-total for A					P 19,727.06
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	Minor Tools 10% of Labor Cost				1,972.71
Sub-total for B					P 1,972.71
C.	Total (A+B)				21,699.77
D.	Output/day	800.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Barbed Wire Galvanized 3 Strands GA 12.5 (with 5% Wastage Factor)	9,525.60	In.m.	18.00	171,460.80
Sub-total for E					P 171,460.80
F.	Direct Cost (C + E)				193,160.57
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		15,452.85
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		15,452.85
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		11,203.31
J.	Total Unit Cost				25.93

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 604(2) Fencing Chain Link (Cyclone Wire)

Unit of Measurement: In.m.

Output per hour: 100.00

Quantity: 2,822.40

Perimeter Fence along Ecozone

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.53	611.92	2,158.85
	b. Skilled Labor	1	3.53	443.20	1,563.61
	c. Unskilled Labor	3	3.53	342.24	3,622.27
Sub-total for A					P 7,344.73
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	Minor Tools 10% of Labor Cost				734.47
Sub-total for B					P 734.47
C.	Total (A+B)				8,079.20
D.	Output/day	800.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cyclone Wire Galvanized 5' Gauge 10 (with 5% Wastage Factor)	2,963.52	In.m.	302.00	894,983.04
Sub-total for E					P 894,983.04
F.	Direct Cost (C + E)				903,062.24
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		72,244.98
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		72,244.98
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		52,377.61
J.	Total Unit Cost				389.71

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 604(3) Fencing Post (Steel Pipe)
 Unit of Measurement: each
 Output per hour: 3.00
 Quantity: 504.50

G.I. 3" dia. Sch. 40 @ 6.00 m. each

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	21.02	611.92	12,863.07
	b. Skilled Labor	1	21.02	443.20	9,316.43
	c. Unskilled Labor	3	21.02	342.24	21,582.51
Sub-total for A					P 43,762.01
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Welding Machine	1	10.51	2,968.00	31,194.92
	b. Cutting Outfit	1	10.51	363.60	3,821.59
	Minor Tools 10% of Labor Cost				4,376.20
Sub-total for B					P 39,392.71
C.	Total (A+B)				83,154.72
D.	Output/day	24.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. G.I. Pipe 3" dia. Sch. 40	84.08	pc.	2,328.00	195,746.00
	b. Welding Rod	2.00	kg.	150.00	300.00
	c. Oxy/Acytelyne	1.00	set	2,500.00	2,500.00
Sub-total for E					P 198,546.00
F.	Direct Cost (C + E)				281,700.72
G.	Overhead, Contingencies and Miscellaneous			8% per D.O. 197, s. 2016	22,536.06
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	22,536.06
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	16,338.64
J.	Total Unit Cost				680.10

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

Item No./Description: 604(4) Fencing Frames (Steel Pipe)
 Unit of Measurement: each
 Output per hour: 8.00
 Quantity: 1,344.00

G.I. 1-1/2" dia. Sch. 40 @ 6.00 m. each

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	21.00	611.92	12,850.32
	b. Skilled Labor	1	21.00	443.20	9,307.20
	c. Unskilled Labor	3	21.00	342.24	21,561.12
Sub-total for A					P 43,718.64
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Welding Machine	1	10.50	2,968.00	31,164.00
	b. Cutting Outfit	1	10.50	363.60	3,817.80
	Minor Tools 10% of Labor Cost				4,371.86
Sub-total for B					P 39,353.66
C.	Total (A+B)				83,072.30
D.	Output/day	64.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. G.I. Pipe 1-1/2" dia. Sch. 40	224.00	pc.	779.00	174,496.00
	b. Welding Rod	2.00	kg.	150.00	300.00
	c. Oxy/Acytelyne	1.00	set	2,500.00	2,500.00
Sub-total for E					P 177,296.00
F.	Direct Cost (C + E)				260,368.30
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		20,829.46
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		20,829.46
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		15,101.36
J.	Total Unit Cost				235.96

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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				
	a. Const. Foreman	1	12.00	611.92	7,343.04
	b. Mason	3	12.00	443.20	15,955.20
	c. Carpenter	3	12.00	443.20	15,955.20
	d. Laborer	6	12.00	342.24	24,641.28
Sub-total for A					P 63,894.72
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	4.00	1,376.00	5,504.00
	b. Water Truck	1	1.00	19,600.00	19,600.00
	Minor Tools 10% of Labor				6,389.47
Sub-total for B					P 31,493.47
C.	Total (A+B)				95,388.19
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.	1,082.05	3,787.18
	b. Selected Fill	10.00	cu.m.	448.70	4,487.00
	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.	1,082.05	22,723.05
	c. Washed Sand	18.00	cu.m.	1,082.05	19,476.90
	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.	1,082.05	8,656.40
	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, 0.90mx2.1m	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 153,605.05
Sub-total for E (I + II + III)					P 302,505.98
F.	Direct Cost (C + E)				397,894.17
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		31,831.53
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		31,831.53
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		23,077.86
J.	Total Unit Cost				484,635.10

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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 Chromate	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		8% 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 Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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		8% 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 Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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	2.00	each	2,700.00	5,400.00
	pillows w/ pillow cases, fitted sheets and blanket	2.00	each	5,000.00	10,000.00
	Double burner gas stove (Gasul)	1.00	unit	3,700.00	3,700.00
	10 cups Rice Cooker	1.00	unit	2,500.00	2,500.00
	Various Office Supply (Folders, Bond Paper, Yellow Pads, Ball Pens, Pencil, Envelopes, etc.)	1.00	L.S.	30,000.00	30,000.00
	Kitchenware (Plates, Spoons & Forks, Glasses, etc.)	1.00	L.S.	14,368.03	14,368.03
	Dining Table	1.00	set	8,000.00	8,000.00
	Digital Camera	2.00	set	12,000.00	24,000.00
	Cellphone	4.00	set	15,000.00	60,000.00
	Desktop Computer	1.00	set	60,000.00	60,000.00
	Lighting/Water Fixtures				
	a. Electrical Bill	12.00	mos.	3,000.00	36,000.00
	b. Water Bill	12.00	mos.	1,500.00	18,000.00
	c. LPG (11 kg)	12.00	mos.	1,000.00	12,000.00
Sub-total for E				P	285,338.03
F.	Direct Cost (C + E)				285,338.03
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		22,827.04
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		15,408.25
J.	Total Unit Cost				323,573.33

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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		8% per D.O. 197, s. 2016		820.74
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		595.03
J.	Total Unit Cost				6,247.85

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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

Unit of Measurement: month

Output per hour:

Quantity: 12.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Safety Practioner	1	360.00	611.92	220,291.20
	b. First Aider	1	180.00	443.20	79,776.00
Sub-total for A					P 300,067.20
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Warning Signs and Barricades				60,000.00
Sub-total for B					P 60,000.00
C.	Total (A+B)				360,067.20
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)				386,227.20
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		30,898.18
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		20,856.27
J.	Total Unit Cost				36,498.47

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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: 12.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Driver	1	360	422.32	152,035.20
Sub-total for A					P 152,035.20
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)				152,035.20
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Diesel	3,600.00	L	31.00	111,600.00
	b. Spare Parts	1.00	L.S.	50,000.00	50,000.00
	c. Engine Oil & Lubricants	1.00	L.S.	16,740.00	16,740.00
	d. Miscellaneous	1.00	L.S.	45,000.00	45,000.00
Sub-total for E					P 223,340.00
F.	Direct Cost (C + E)				375,375.20
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		18,768.76
J.	Total Unit Cost				32,845.33

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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	5.00	34,043.00	170,215.00
	b. Water Truck	1	5.00	19,600.00	98,000.00
	c. Backhoe	2	5.00	12,296.00	122,960.00
	d. Bulldozer	1	5.00	27,032.00	135,160.00
	e. Dumptruck	8	5.00	11,360.00	454,400.00
	f. Payloader	1	5.00	13,864.00	69,320.00
	g. Grader	1	5.00	17,384.00	86,920.00
	h. Transit Mixer	4	5.00	10,544.00	210,880.00
	i. Road Roller	1	5.00	14,768.00	73,840.00
	j. Truck Mounted Crane	1	5.00	20,848.00	104,240.00
Sub-total for B				P	1,525,935.00
C.	Total (A+B)				1,525,935.00
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)				1,525,935.00
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	76,296.75
J.	Total Unit Cost				1,602,231.75

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Structures at Zamboanga City By-Pass Road (Culianan-Patalon Section), Package 2, Zamboanga City 1st LD

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

Unit of Measurement: km.

Output per hour: 0.04

Quantity: 3.507

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Field Works				
	a. Geodetic Engineer	1	10.96	833.31	9,133.83
	b. Skilled Laborer	3	10.96	443.20	14,573.62
	c. Laborer	3	10.96	342.24	11,253.78
	For Office Works				
	a. Geodetic Engineer	1	32.88	833.31	27,401.50
	b. Skilled Laborer	2	32.88	443.20	29,147.24
Sub-total for A				P	91,509.98
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Total Station w/ complete accessories: Minor Tools 10% of Labor	1	10.96	800.00	8,768.72 9,151.00
Sub-total for B				P	17,919.72
C.	Total (A+B)				109,429.70
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)	60.00	pc	400.00	24,000.00
	b. Blue Printing	300.00	pc	15.00	4,500.00
	Miscellaneous 5% of Materials Cost				1,425.00
Sub-total for E				P	29,925.00
F.	Direct Cost (C + E)				139,354.70
G.	Overhead, Contingencies and Miscellaneous		8% per D.O. 197, s. 2016		11,148.38
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		11,148.38
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		8,082.57
J.	Total Unit Cost				48,391.88